

Package name	Source	Package Description	Package License	Encryption types	Encryption Max Key Length	Comment
python-routes	python-routes	"Routes is a Python re-implementation of the Rails routes system for mapping URL's to Controllers/Actions and generating URL's. Routes makes it easy to create pretty and concise URL's that are RESTful with little effort."	BSD			
gv	gv	"GNU gv is a user interface for the Ghostscript PostScript(TM) interpreter. Gv can display PostScript and PDF documents on an X Window System."	GPLv3+			
python-retrying	python-retrying	"Retrying is an Apache 2.0 licensed general-purpose retrying library written in Python to simplify the task of adding retry behavior to just about anything."	ASL 2.0			
nailgun-agent	nailgun-agent	"The nailgun agent collects the server's hardware information and submits it to Nailgun through the REST API. Also it's responsible for reporting the online/offline status and for initial setup Mcollective service."	ASL 2.0			
python3-d2to1	python-d2to1	"d2to1 allows using distutils2-like setup.cfg files for a package's metadata with a distribute/setuptools setup.py script. It works by providing a distutils2-formatted setup.cfg file containing all of a package's metadata and a very minimal setup.py which will slurp its arguments from the setup.cfg."	BSD			
python34-pika	python-pika	"Pika is a pure-Python implementation of the AMQP 0-9-1 protocol that tries to stay fairly independent of the underlying network support library. This package provides the Python 3 implementation."	BSD			
uwsgi-plugin-xslt	uwsgi	"This package contains the xslt plugin for uWSGI"	GPLv2 with exceptions			
python3-debuginfo	python3	"This package provides debug information for package python3. Debug information is useful when developing applications that use this package or when debugging this package."	Python			
uwsgi-plugin-ruby	uwsgi	"This package contains the ruby19 plugin for uWSGI"	GPLv2 with exceptions			
python-magnumclient-doc	python-magnumclient	"Documentation for the client library for Magnum"	ASL 2.0			
yasm-debuginfo	yasm	"This package provides debug information for package yasm. Debug information is useful when developing applications that use this package or when debugging this package."	BSD and (GPLv2+ or Artistic or LGPLv2+) and LGPLv2			
fcgi	fcgi	"FastCGI is a language independent scalable open extension to CGI that provides high performance without the limitations of server specific APIs."	OML			
xmlstarlet	xmlstarlet	"XMLStarlet is a set of command line utilities which can be used to transform query validate and edit XML documents and files using simple set of shell commands in similar way it is done for plain text files using UNIX grep sed awk diff patch join etc commands."	MIT			
python3-aniso8601	python-aniso8601	"Python 3 library for parsing date strings in ISO 8601 format into datetime format."	GPLv3+			
lrzip	lrzip	"Long Range ZIP or Lzma RZIP This is a compression program optimized for large files. The larger the file and the more memory you have the better the compression advantage this will provide especially once the files are larger than 100 MB. The advantage can be chosen to be either size (much smaller than bzip2) or speed (much faster than bzip2). Decompression is always much faster than bzip2."	GPLv2+			
openpgm-devel	openpgm	"This package contains OpenPGM related development libraries and header files."	LGPLv2			
python-oslo-cache	python-oslo-cache	"oslo.cache aims to provide a generic caching mechanism for OpenStack projects by wrapping the dogpile.cache library. The dogpile.cache library provides support memoization key value storage and interfaces to common caching backends such as Memcached."	ASL 2.0			
nodejs-nailgun-debuginfo	nodejs-nailgun	"This package provides debug information for package nodejs-nailgun. Debug information is useful when developing applications that use this package or when debugging this package."	Copyright Joyent	sha	512	
nodejs-nailgun-debuginfo	nodejs-nailgun	"This package provides debug information for package nodejs-nailgun. Debug information is useful when developing applications that use this package or when debugging this package."	Copyright Joyent	pbkdf2	unknown	hash
nodejs-nailgun-debuginfo	nodejs-nailgun	"This package provides debug information for package nodejs-nailgun. Debug information is useful when developing applications that use this package or when debugging this package."	Copyright Joyent	aes	256	
nodejs-nailgun-debuginfo	nodejs-nailgun	"This package provides debug information for package nodejs-nailgun. Debug information is useful when developing applications that use this package or when debugging this package."	Copyright Joyent	ripemd	160	

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nodejs-nailgun-debuginfo	nodejs-nailgun	"This package provides debug information for package nodejs-nailgun. Debug information is useful when developing applications that use this package or when debugging this package."	Copyright Joyent	md5	128	
python-glanceclient	python-glanceclient	"This is a client for the OpenStack Glance API. There's a Python API (the glanceclient module) and a command-line script (glance). Each implements 100% of the OpenStack Glance API."	ASL 2.0			
python-falcon	python-falcon	"Falcon is a high-performance Python framework for building cloud APIs. It encourages the REST architectural style and tries to do as little as possible while remaining highly effective. Features: - Intuitive routing via URI templates and resource classes - Easy access to headers and bodies through request and response classes - Idiomatic HTTP error responses via a handy exception base class - DRY request processing using global resource and method hooks - Snappy unit testing through WSGI helpers and mocks - 20% speed boost when Cython is available - Python 2.6 Python 2.7 PyPy and Python 3.3 support - Speed speed and more speed!"	ASL 2.0			
python3-contextlib2	python-contextlib2	"contextlib2 is a backport of the standard library's contextlib module to earlier Python versions. It also serves as a real world proving ground for possible future enhancements to the standard library version."	Python			
cluster-glue	cluster-glue	"A collection of common tools that are useful for writing cluster managers such as Pacemaker. Provides a local resource manager that understands the OCF and LSB standards and an interface to common STONITH devices."	GPL-2.0+ and LGPL-2.1+			
python3-sqlalchemy	python-sqlalchemy	"SQLAlchemy is an Object Relational Mapper (ORM) that provides a flexible high-level interface to SQL databases. Database and domain concepts are decoupled allowing both sides maximum flexibility and power. SQLAlchemy provides a powerful mapping layer that can work as automatically or as manually as you choose determining relationships based on foreign keys or letting you define the join conditions explicitly to bridge the gap between database and domain. This package includes the python 3 version of the module."	MIT			
rubygem-bunny	rubygem-bunny	"A synchronous Ruby AMQP client that enables interaction with AMQP-compliant brokers."	MIT			
liberasurecode	liberasurecode	"An API library for Erasure Code written in C. It provides a number of pluggable backends such as Intel ISA-L library."	BSD			
python-wsgilog	python-wsgilog	"Supports logging events in WSGI applications to STDOUT time rotated log files email syslog and web servers. Also supports catching and sending HTML-formatted exception tracebacks to a web browser for debugging."	BSD			
python3-jinja2	python-jinja2	"Jinja2 is a template engine written in pure Python. It provides a Django inspired non-XML syntax but supports inline expressions and an optional sandboxed environment. If you have any exposure to other text-based template languages such as Smarty or Django you should feel right at home with Jinja2. It's both designer and developer friendly by sticking to Python's principles and adding functionality useful for templating environments."	BSD			
python-daemonize	python-daemonize	"daemonize is a library for writing system daemons in Python. It has some bits from daemonize.sourceforge.net. It is distributed under MIT license."	MIT			
postgresql-libs	postgresql	"The postgresql-libs package provides the essential shared libraries for any PostgreSQL client program or interface. You will need to install this package to use any other PostgreSQL package or any clients that need to connect to a PostgreSQL server."	PostgreSQL			
python-oslo-messaging	python-oslo-messaging	"The Oslo project intends to produce a python library containing infrastructure code shared by OpenStack projects. The APIs provided by the project should be high quality stable consistent and generally useful. The Oslo messaging API supports RPC and notifications over a number of different messaging transports."	ASL 2.0			
rubygem-mcollective-client	rubygem-mcollective-client	"Client libraries for the Mcollective Application Server"	MIT			
rubygem-librarian-debuginfo	rubygem-librarian	"This package provides debug information for package rubygem-librarian. Debug information is useful when developing applications that use this package or when debugging this package."	MIT			

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python2-oslo-config	python-oslo-config	"The Oslo project intends to produce a python library containing infrastructure code shared by OpenStack projects. The APIs provided by the project should be high quality stable consistent and generally useful. The oslo-config library is a command line and configuration file parsing library from the Oslo project."	ASL 2.0			
python3-webob	python-webob	"WebOb provides wrappers around the WSGI request environment and an object to help create WSGI responses. The objects map much of the specified behavior of HTTP including header parsing and accessors for other standard parts of the environment."	MIT			
pystache	pystache	"Inspired by ctemplate and et Mustache is a framework-agnostic way to render logic-free views. As ctemplates says "It emphasizes separating logic from presentation: it is impossible to embed application logic in this template language.""	MIT			
python-blinker	python-blinker	"Blinker provides a fast dispatching system that allows any number of interested parties to subscribe to events or "signals"."	MIT			
v8-debuginfo	v8	"This package provides debug information for package v8. Debug information is useful when developing applications that use this package or when debugging this package."	BSD			
rubygem-librarian-doc	rubygem-librarian	"Documentation generated at gem installation time. Usually in RDoc and RI formats."	MIT			
ruby-libs	ruby	"This package includes the libruby necessary to run Ruby."	Ruby or BSD			
libcephfs1	ceph	"Ceph is a distributed network file system designed to provide excellent performance reliability and scalability. This is a shared library allowing applications to access a Ceph distributed file system via a POSIX-like interface."	LGPL-2.0			
uwsgi-router-static	uwsgi	"This package contains the Static router plugin for uWSGI"	GPLv2 with exceptions			
python-setuptools	python-setuptools	"Setuptools is a collection of enhancements to the Python distutils that allow you to more easily build and distribute Python packages especially ones that have dependencies on other packages. This package also contains the runtime components of setuptools necessary to execute the software that requires pkg_resources.py."	Python or ZPLv2.0			
python34-debuginfo	python34	"This package provides debug information for package python34. Debug information is useful when developing applications that use this package or when debugging this package."	Python			
python-testrepository	python-testrepository	"Provides a database of test results which can be used to support easy developer workflows supporting functionality like isolating failing tests. Testrepository is compatible with any test suite that can output subunit. This includes any TAP test suite and any pyunit compatible test suite."	ASL 2.0			
perl-qpid-proton	qpid-proton	"Perl language bindings for Qpid Proton messaging framework."	ASL 2.0			
erlang-tools	erlang	"A set of programming tools including a coverage analyzer etc."	ERPL			
python3-werkzeug	python-werkzeug	"Werkzeug ===== Werkzeug started as simple collection of various utilities for WSGI applications and has become one of the most advanced WSGI utility modules. It includes a powerful debugger full featured request and response objects HTTP utilities to handle entity tags cache control headers HTTP dates cookie handling file uploads a powerful URL routing system and a bunch of community contributed addon modules. Werkzeug is unicode aware and doesn't enforce a specific template engine database adapter or anything else. It doesn't even enforce a specific way of handling requests and leaves all that up to the developer. It's most useful for end user applications which should work on as many server environments as possible (such as blogs wikis bulletin boards etc.)."	BSD			
python3-positional	python-positional	"A decorator which enforces only some args may be passed positionally."	ASL 2.0			
python-fixtures	python-fixtures	"Fixtures defines a Python contract for reusable state / support logic primarily for unit testing. Helper and adaption logic is included to make it easy to write your own fixtures using the fixtures contract. Glue code is provided that makes using fixtures that meet the Fixtures contract in unittest compatible test cases easy and straight forward."	ASL 2.0 or BSD			
erlang-debugger	erlang	"A debugger for debugging and testing of Erlang programs."	ERPL			
python2-requestsexceptions	python-requestsexceptions	"This is a simple library to find the correct path to exceptions in the requests library regardless of whether they are bundled."	ASL 2.0			

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python-twisted	python-twisted	"Twisted is a networking engine written in Python supporting numerous protocols. It contains a web server numerous chat clients chat servers mail servers and more."	MIT			
python-qpids	python-qpids	"The Apache Qpid Python client library for AMQP."	ASL 2.0			
python-gnocchiclient	python-gnocchiclient	"This is a client library for Gnocchi built on the Gnocchi API. It provides a Python API (the gnocchiclient module) and a command-line tool."	ASL 2.0			
python-posix_ipc-debuginfo	python-posix_ipc	"This package provides debug information for package python-posix_ipc. Debug information is useful when developing applications that use this package or when debugging this package."	BSD			
roboto-fontface-fonts	python-XStatic-roboto-fontface	"roboto-fontface fonts"	ASL 2.0			
fb303	thrift	"fb303 is the shared root of all Thrift services; it provides a standard interface to monitoring dynamic options and configuration uptime reports activity etc."	ASL 2.0 and BSD and zlib			
postgresql-pltcl	postgresql	"The postgresql-pltcl package contains the PL/Tcl procedural language which is an extension to the PostgreSQL database server. Install this if you want to write database functions in Tcl."	PostgreSQL			
python-saharacient	python-saharacient	"Client library for OpenStack Sahara API"	Apache License			
fuel-ha-utils	fuel-library9.0	"A set of scripts for Fuel deployment utility HA deployment For further information go to <a href="http://wiki.openstack.org/Fuel">http://wiki.openstack.org/Fuel</a> "	GPLv2			
python-webpy	python-webpy	"web.py is a web framework for python that is as simple as it is powerful. web.py is in the public domain; you can use it for whatever purpose with absolutely no restrictions."	Public Domain and BSD			
python-pip	python-pip	"Pip is a replacement for `easy_install` < <a href="http://peak.telecommunity.com/DevCenter/EasyInstall">http://peak.telecommunity.com/DevCenter/EasyInstall</a> >`. It uses mostly the same techniques for finding packages so packages that were made easy_installable should be pip-installable as well."	MIT			
uwsgi-logger-socket	uwsgi	"This package contains the logsocket logger plugin for uWSGI"	GPLv2 with exceptions			
python-openstackclient	python-openstackclient	"Client library and command line utility for interacting with Openstack API."	ASL 2.0			
ceph-common	ceph	"Common utilities to mount and interact with a ceph storage cluster."	GPL-2.0			
fencing-agent	fuel-nailgun	"Fuel fencing agent"	GPLv2			
python-imaging-sane	python-imaging	"This package contains the sane module for Python which provides access to various raster scanning devices such as flatbed scanners and digital cameras."	MIT			
uwsgi-router-radius	uwsgi	"This package contains the metrics router plugin for uWSGI"	GPLv2 with exceptions			
libcephfs_jni1-devel	ceph	"This package contains the development files for CephFS Java Native Interface library."	LGPL-2.0			
v8-devel	v8	"Development headers and libraries for v8."	BSD			
erlang-et	erlang	"An event tracer for Erlang programs."	ERPL			
zeromq3	zeromq3	"The 0MQ lightweight messaging kernel is a library which extends the standard socket interfaces with features traditionally provided by specialized messaging middle-ware products. 0MQ sockets provide an abstraction of asynchronous message queues multiple messaging patterns message filtering (subscriptions) seamless access to multiple transport protocols and more. This package contains the ZeroMQ shared library for versions 3.x."	LGPLv3+ with exceptions			
pydot-ng	pydot-ng	"pydot-ng - Python interface to Graphviz's Dot language"	MIT			
python-qpids-proton-doc	qpids-proton	"Documentation for the Python language bindings for Qpid Proton."	ASL 2.0			
nailgun-mcagents	rubygem-astute	"MCollective agents"	GPLv2			
erlang-inets	erlang	"A set of services such as a Web server and a ftp client etc."	ERPL			
rubygem-rsync-doc	rubygem-rsync	"Documentation for rubygem-rsync"	MIT			
python-django	python-django	"Django is a high-level Python Web framework that encourages rapid development and a clean pragmatic design. It focuses on automating as much as possible and adhering to the DRY (Don't Repeat Yourself) principle."	BSD			
rubygem-net-ssh-multi	rubygem-net-ssh-multi	"Control multiple Net::SSH connections via a single interface."	MIT			
fuel-misc	fuel-library9.0	"A set of scripts for Fuel deployment utility For further information go to <a href="http://wiki.openstack.org/Fuel">http://wiki.openstack.org/Fuel</a> "	Apache 2.0			
python-neutron-fwaas	openstack-neutron-fwaas	"This is a FWaaS service plugin for Openstack Neutron (Networking) service. This package contains the Neutron FWaaS Python library."	ASL 2.0			

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rubygem-rake	rubygem-rake	"Rake is a Make-like program implemented in Ruby. Tasks and dependencies are specified in standard Ruby syntax."	MIT			
python2-os-win	python-os-win	"Library contains Windows / Hyper-V code commonly used in the OpenStack projects: nova cinder networking-hyperv."	ASL 2.0			
uwsgi-router-memcached	uwsgi	"This package contains the memcached router plugin for uWSGI"	GPLv2 with exceptions			
libnetfilter_cttimeout-debuginfo	libnetfilter_cttimeout	"This package provides debug information for package libnetfilter_cttimeout. Debug information is useful when developing applications that use this package or when debugging this package."	GPLv2+			
python-repoze-who	python-repoze-who	"repoze.who is an identification and authentication framework for arbitrary WSGI applications. It acts as WSGI middleware. repoze.who is inspired by Zope 2's Pluggable Authentication Service (PAS) (but repoze.who is not dependent on Zope in any way; it is useful for any WSGI application). It provides no facility for authorization (ensuring whether a user can or cannot perform the operation implied by the request). This is considered to be the domain of the WSGI application."	BSD			
uwsgi-plugin-tornado	uwsgi	"This package contains the tornado plugin for uWSGI"	GPLv2 with exceptions			
rubygem-yajl-ruby-debuginfo	rubygem-yajl-ruby	"This package provides debug information for package rubygem-yajl-ruby. Debug information is useful when developing applications that use this package or when debugging this package."	Development			
postgresql-docs	postgresql	"The postgresql-docs package contains some additional documentation for PostgreSQL. Currently this includes the main documentation in PDF format and source files for the PostgreSQL tutorial."	PostgreSQL			
os-apply-config	os-apply-config	"Tool to apply openstack heat metadata to files on the system."	ASL 2.0			
openstack-neutron-vyatta-agent	openstack-neutron-vpnaas	"This is a VPNaaS service plugin for Openstack Neutron (Networking) service. This package contains Neutron VPNaaS Vyatta agent."	ASL 2.0			
python-boto	python-boto	"Boto is a Python package that provides interfaces to Amazon Web Services. It supports over thirty services such as S3 (Simple Storage Service) SQS (Simple Queue Service) and EC2 (Elastic Compute Cloud) via their REST and Query APIs. The goal of boto is to support the full breadth and depth of Amazon Web Services. In addition boto provides support for other public services such as Google Storage in addition to private cloud systems like Eucalyptus OpenStack and Open Nebula."	MIT			
python3-testtools	python-testtools	"testtools is a set of extensions to the Python standard library's unit testing framework."	MIT			
python-meld3	python-meld3	"meld3 is an HTML/XML templating system for Python 2.3+ which keeps template markup and dynamic rendering logic separate from one another. See <a href="http://www.entrian.com/PyMeld">http://www.entrian.com/PyMeld</a> for a treatise on the benefits of this pattern."	ZPLv2.1			
python34-tkinter	python34	"The Tkinter (Tk interface) program is an graphical user interface for the Python scripting language."	Python			
rubygem-mixlib-cli	rubygem-mixlib-cli	"A simple mix-in for CLI interfaces including option parsing."	ASL 2.0			
python-wrapt-doc	python-wrapt	"Documentation for the wrapt module"	BSD			
python-tasklib	python-tasklib	"Tasklib is a Python library for interacting with a taskwarrior databases using a queryset API similar to that of Django's ORM. Supports taskwarrior 2.1.x and above. Older versions of taskwarrior are untested and may not work."	Apache-2			
python-fb303	thrift	"The python-fb303 package contains Python bindings for fb303."	ASL 2.0 and BSD and zlib			
rubygem-psych	ruby	"Psych is a YAML parser and emitter. Psych leverages libyaml[ <a href="http://pyyaml.org/wiki/LibYAML">http://pyyaml.org/wiki/LibYAML</a> ] for its YAML parsing and emitting capabilities. In addition to wrapping libyaml Psych also knows how to serialize and de-serialize most Ruby objects to and from the YAML format."	MIT			
erlang-megaco	erlang	"Megaco/H.248 is a protocol for control of elements in a physically decomposed multimedia gateway enabling separation of call control from media conversion."	ERPL			
hiera	hiera	"A simple hierarchical database supporting plugin data sources."	ASL 2.0			
python-pika-pool-debuginfo	python-pika-pool	"This package provides debug information for package python-pika-pool. Debug information is useful when developing applications that use this package or when debugging this package."	BSD			

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python3-debug	python3	"python3-debug provides a version of the Python 3 runtime with numerous debugging features enabled aimed at advanced Python users such as developers of Python extension modules. This version uses more memory and will be slower than the regular Python 3 build but is useful for tracking down reference-counting issues and other bugs. The bytecodes are unchanged so that .pyc files are compatible between the two versions of Python 3 but the debugging features mean that C/C++ extension modules are ABI-incompatible with those built for the standard runtime. It shares installation directories with the standard Python 3 runtime so that .py and .pyc files can be shared. All compiled extension modules gain a "_d" suffix ("foo_d.so" rather than "foo.so") so that each Python 3 implementation can load its own extensions."	Python			
python-oslo-service	python-oslo-service	"Library for running OpenStack services"	ASL 2.0			
thrift-devel	thrift	"The thrift-devel package contains libraries and header files for developing applications that use thrift."	ASL 2.0 and BSD and zlib			
python-keystoneclient	python-keystoneclient	"Client library and command line utility for interacting with Openstack Identity API."	ASL 2.0			
mysql-wsrep-5.6	MySQL	"This meta package ensures the installation of a MySQL server and the necessary client programs for operation and administration. It does not itself contain those files but rather causes the installation of the subpackages "mysql-wsrep-server-5.6" and "mysql-wsrep-client-5.6". As indicated in the name the server is built with the "wsrep" plugin so that it can be a node in a MySQL Galera Cluster."	Copyright (c) 2000			
python-jinja2	python-jinja2	"Jinja2 is a template engine written in pure Python. It provides a Django inspired non-XML syntax but supports inline expressions and an optional sandboxed environment. If you have any exposure to other text-based template languages such as Smarty or Django you should feel right at home with Jinja2. It's both designer and developer friendly by sticking to Python's principles and adding functionality useful for templating environments."	BSD			
openpgm-debuginfo	openpgm	"This package provides debug information for package openpgm. Debug information is useful when developing applications that use this package or when debugging this package."	LGPLv2			
openstack-nova-scheduler	openstack-nova	"OpenStack Compute (codename Nova) is open source software designed to provision and manage large networks of virtual machines creating a redundant and scalable cloud computing platform. It gives you the software control panels and APIs required to orchestrate a cloud including running instances managing networks and controlling access through users and projects. OpenStack Compute strives to be both hardware and hypervisor agnostic currently supporting a variety of standard hardware configurations and seven major hypervisors. This package contains the service for scheduling where to run Virtual Machines in the cloud."	ASL 2.0			
novnc	novnc	"Websocket implementation of VNC client"	GPLv3			
ruby-devel	ruby	"Header files and libraries for building an extension library for the Ruby or an application embedding Ruby."	(Ruby or BSD) and Public Domain			
pysaml2	pysaml2	"PySAML2 is a pure python implementation of SAML2. It contains all necessary pieces for building a SAML2 service provider or an identity provider. The distribution contains examples of both. Originally written to work in a WSGI environment there are extensions that allow you to use it with other frameworks."	GPLv2+			
uwsgi-plugin-lua	uwsgi	"This package contains the lua plugin for uWSGI"	GPLv2 with exceptions			
fuel-agent	fuel-agent	"Fuel-agent package"	Apache			
rubygem-thread_safe-doc	rubygem-thread_safe	"Documentation for rubygem-thread_safe."	ASL 2.0 and Public Domain			
python34-zmq	python-zmq	"The 0MQ lightweight messaging kernel is a library which extends the standard socket interfaces with features traditionally provided by specialized messaging middle-ware products. 0MQ sockets provide an abstraction of asynchronous message queues multiple messaging patterns message filtering (subscriptions) seamless access to multiple transport protocols and more. This package contains the python bindings."	LGPLv3+			
rubygem-mixlib-log-doc	rubygem-mixlib-log	"This package contains documentation for rubygem-mixlib-log."	Distributable			

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python3-prettytable	python-prettytable	"PrettyTable is a simple Python library designed to make it quick and easy to represent tabular data in visually appealing ASCII tables. It was inspired by the ASCII tables used in the PostgreSQL shell psql. PrettyTable allows for selection of which columns are to be printed independent alignment of columns (left or right justified or centred) and printing of "sub-tables" by specifying a row range."	BSD			
erlang-xmerl	erlang	"Provides support for XML 1.0."	ERPL			
python-paste-deploy	python-paste-deploy	"This tool provides code to load WSGI applications and servers from URIs; these URIs can refer to Python Eggs for INI-style configuration files. PasteScript provides commands to serve applications based on this configuration file."	MIT			
python-pyasn1-modules	python-pyasn1	"ASN.1 types modules for python-pyasn1."	BSD			
python3-zope-event	python-zope-event	"The zope.event package provides a simple event system. It provides an event publishing system and a very simple event-dispatching system on which more sophisticated event dispatching systems can be built. (For example a type-based event dispatching system that builds on zope.event can be found in zope.component.) This package contains the version for Python 3."	ZPLv2.1			
python-pyeclib-debuginfo	python-pyeclib	"This package provides debug information for package python-pyeclib. Debug information is useful when developing applications that use this package or when debugging this package."	BSD			
uwsgi-router-forkpty	uwsgi	"This package contains the ForkPTY router plugin for uWSGI"	GPLv2 with exceptions			
python3-crypto	python-crypto	"PyCrypto is a collection of both secure hash functions (such as MD5 and SHA) and various encryption algorithms (AES DES RSA ElGamal etc.). This is the Python 3 build of the package."	Public Domain and Python			
rubygem-mime-types	rubygem-mime-types	"MIME::Types for Ruby manages a MIME Content-Type database that will return the Content-Type for a given filename. MIME::Types was originally based on and synchronized with MIME::Types for Perl by Mark Overmeer copyright 2001 - 2009. As of version 1.15 the data format for the MIME::Type list has changed and the synchronization will no longer happen."	GPL+ or Ruby or Artistic			
daemonize	daemonize	"daemonize runs a command as a Unix daemon. As defined in W. Richard Stevens' 1990 book Unix Network Programming (Addison-Wesley 1990) a daemon is "a process that executes 'in the background' (i.e. without an associated terminal or login shell) either waiting for some event to occur or waiting to perform some specified task on a periodic basis." Upon startup a typical daemon program will: - Close all open file descriptors (especially standard input standard output and standard error) - Change its working directory to the root filesystem to ensure that it doesn't tie up another filesystem and prevent it from being unmounted - Reset its umask value - Run in the background (i.e. fork) - Disassociate from its process group (usually a shell) to insulate itself from signals (such as HUP) sent to the process group - Ignore all terminal I/O signals - Disassociate from the control terminal (and take steps not to reacquire one) - Handle any SIGCLD signals Most programs that are designed to be run as daemons do that work for themselves. However you'll occasionally run across one that does not. When you must run a daemon program that does not properly make itself into a true Unix daemon you can use daemonize to force it to run as a true daemon."	BSD			
python-cassandra-driver	python-cassandra-driver	"A Python client driver for Apache Cassandra. This driver works exclusively with the Cassandra Query Language v3 (CQL3) and Cassandra's native protocol. As such only Cassandra 1.2+ is supported."	ASL 2.0 and MIT			
uwsgi-plugin-carbon	uwsgi	"This package contains the Carbon plugin for uWSGI (to use in graphite)"	GPLv2 with exceptions			
python-socketpool	python-socketpool	"Socket pool is a simple socket pool that supports multiple factories and backends. It can easily be used by gevent eventlet or any other library."	Public Domain or MIT			
postgresql-debuginfo	postgresql	"This package provides debug information for package postgresql. Debug information is useful when developing applications that use this package or when debugging this package."	PostgreSQL			
python2-flask-sqlalchemy	python-flask-sqlalchemy	"Flask-SQLAlchemy is an extension for Flask that adds support for SQLAlchemy to your application. It aims to simplify using SQLAlchemy with Flask by providing useful defaults and extra helpers that make it easier to accomplish common tasks. Python 2 version."	BSD			
python-blist-debuginfo	python-blist	"This package provides debug information for package python-blist. Debug information is useful when developing applications that use this package or when debugging this package."	BSD			

Package name	Source	Package Description	Package License	Encryption types	Encryption Max Key Length	Comment
rubygem-rake-doc	rubygem-rake	"This package contains documentation for rubygem-rake."	MIT			
python2-wsme	python-wsme	"Web Services Made Easy simplifies the implementation of multiple protocol REST web services by providing simple yet powerful typing which removes the need to directly manipulate the request and the response objects."	MIT			
python-cinderclient	python-cinderclient	"Client library (cinderclient python module) and command line utility (cinder) for interacting with OpenStack Cinder (Block Storage) API."	ASL 2.0			
rubygem-safe_yaml	rubygem-safe_yaml	"The SafeYAML gem provides an alternative implementation of YAML.load suitable for accepting user input in Ruby applications. Unlike Ruby's built-in implementation of YAML.load SafeYAML's version will not expose apps to arbitrary code execution exploits."	MIT			
python-magnumclient	python-magnumclient	"Client Library for Magnum"	ASL 2.0			
rubygem-minitest	rubygem-minitest	"minitest provides a complete suite of testing facilities supporting TDD BDD mocking and benchmarking. minitest/unit is a small and incredibly fast unit testing framework. It provides a rich set of assertions to make your tests clean and readable. minitest/spec is a functionally complete spec engine. It hooks onto minitest/unit and seamlessly bridges test assertions over to spec expectations. minitest/benchmark is an awesome way to assert the performance of your algorithms in a repeatable manner. Now you can assert that your newb co-worker doesn't replace your linear algorithm with an exponential one! minitest/mock by Steven Baker is a beautifully tiny mock (and stub) object framework. minitest/pride shows pride in testing and adds coloring to your test output. I guess it is an example of how to write IO pipes too. :P minitest/unit is meant to have a clean implementation for language implementors that need a minimal set of methods to bootstrap a working test suite. For example there is no magic involved for test-case discovery. minitest doesn't reinvent anything that ruby already provides like: classes modules inheritance methods. This means you only have to learn ruby to use minitest and all of your regular OO practices like extract-method refactorings still apply."	MIT			
python-neutron	openstack-neutron	"Neutron provides an API to dynamically request and configure virtual networks. This package contains the Neutron Python library."	ASL 2.0			
python2-gflags	python-gflags	"This project is the python equivalent of google-gflags a Google commandline flag implementation for C++. It is intended to be used in situations where a project wants to mimic the command-line flag handling of a C++ app that uses google-gflags or for a Python app that via swig or some other means is linked with a C++ app that uses google-gflags. The gflags package contains a library that implements commandline flags processing. As such it's a replacement for getopt(). It has increased flexibility including built-in support for Python types and the ability to define flags in the source file in which they're used. (This last is its major difference from OptParse.)"	BSD			
python3-ply	python-ply	"PLY is a straightforward lex/yacc implementation. Here is a list of its essential features: * It is implemented entirely in Python. * It uses LR-parsing which is reasonably efficient and well suited for larger grammars. * PLY provides most of the standard lex/yacc features including support for empty productions precedence rules error recovery and support for ambiguous grammars. * PLY is straightforward to use and provides very extensive error checking. * PLY doesn't try to do anything more or less than provide the basic lex/yacc functionality. In other words it's not a large parsing framework or a component of some larger system."	BSD			
python-debian	python-debian	"This package provides Python modules that abstract many formats of Debian related files. Currently handled are: * Debtags information (debian.debtags module) * debian/changelog (debian.changelog module) * Packages files pdiffs (debian.debian_support module) * Control files of single or multiple RFC822-style paragraphs e.g. debian/control .changes .dsc Packages Sources Release etc. (debian.deb822 module) * Raw .deb and .ar files with (read-only) access to contained files and meta-information"	GPLv2+ and GPLv3+			
python3-lesscpy	python-lesscpy	"A compiler written in python 3 for the lesscss language. For those of us not willing/able to have node.js installed in our environment. Not all features of lesscss are supported (yet). Some features wil probably never be supported (JavaScript evaluation)."	MIT			



Package name	Source	Package Description	Package License	Encryption types	Encryption Max Key Length	Comment
python-oslo-policy	python-oslo-policy	"The OpenStack Oslo Policy library. RBAC policy enforcement library for OpenStack."	ASL 2.0			
thrift-glib	thrift	"The thrift-qt package contains GLib bindings for thrift."	ASL 2.0 and BSD and zlib			
ruby-tcltk	ruby	"Tcl/Tk interface for the object-oriented scripting language Ruby."	(Ruby or BSD) and Public Domain			
python3-werkzeug-doc	python-werkzeug	"Documentation and examples for python3-werkzeug."	BSD			
uwsgi-plugin-rrdtool	uwsgi	"This package contains the RRD Tool plugin for uWSGI"	GPLv2 with exceptions			
python-fasteners	python-fasteners	"A python package that provides useful locks."	ASL 2.0			
python-tooz-doc	python-tooz	"The Tooz project aims at centralizing the most common distributed primitives like group membership protocol lock service and leader election by providing a coordination API helping developers to build distributed applications. This package contains documentation in HTML format."	ASL 2.0			
rubygem-cstruct-doc	rubygem-cstruct	"This package contains documentation for rubygem-cstruct."	Distributable			
xmlstarlet-debuginfo	xmlstarlet	"This package provides debug information for package xmlstarlet. Debug information is useful when developing applications that use this package or when debugging this package."	MIT			
python-pyngus	python-pyngus	"A connection oriented messaging framework using QPID Proton. It provides a callback-based API for message passing."	ASL 2.0			
python2-pydotplus	python-pydotplus	"PyDotPlus is an improved version of the old pydot project that provides a Python Interface to Graphviz's Dot language. Python 2 version."	MIT			
rubygem-kramdown-doc	rubygem-kramdown	"Documentation for rubygem-kramdown"	MIT			
python-jsonpath-rw	python-jsonpath-rw	" This library provides a robust and significantly extended implementation of JSONPath for Python with a clear AST for meta-programming. It is tested with Python 2.6 2.7 3.2 3.3 and PyPy. This library differs from other JSONPath implementations in that it is a full language implementation meaning the JSONPath expressions are first class objects easy to analyze transform parse print and extend."	ASL 2.0			
puppet-server	puppet	"Provides the central puppet server daemon which provides manifests to clients. The server can also function as a certificate authority and file server."	ASL 2.0			
uwsgi-plugin-jwsgi	uwsgi	"This package contains the jwsgi plugin for uWSGI"	GPLv2 with exceptions			
python3-jsonpointer	python-jsonpointer	"Library to resolve JSON Pointers according to RFC 6901."	BSD			
ceph-devel-compat	ceph	"This is a compatibility package to accommodate ceph-devel split into librados2-devel librbid1-devel and libcephfs1-devel. Packages still depending on ceph-devel should be fixed to depend on librados2-devel librbid1-devel libcephfs1-devel or libradosstriper1-devel instead."	LGPL-2.0			
uwsgi-stats-pusher-file	uwsgi	"This package contains the stats_pusher_file plugin for uWSGI"	GPLv2 with exceptions			
python-gnocchiclient-doc	python-gnocchiclient	"This is a client library for Gnocchi built on the Gnocchi API. It provides a Python API (the gnocchiclient module) and a command-line tool (gnocchi). This package contains auto-generated documentation."	ASL 2.0			
gv-debuginfo	gv	"This package provides debug information for package gv. Debug information is useful when developing applications that use this package or when debugging this package."	GPLv3+			
python-ply	python-ply	"PLY is a straightforward lex/yacc implementation. Here is a list of its essential features: * It is implemented entirely in Python. * It uses LR-parsing which is reasonably efficient and well suited for larger grammars. * PLY provides most of the standard lex/yacc features including support for empty productions precedence rules error recovery and support for ambiguous grammars. * PLY is straightforward to use and provides very extensive error checking. * PLY doesn't try to do anything more or less than provide the basic lex/yacc functionality. In other words it's not a large parsing framework or a component of some larger system."	BSD			
uwsgi-log-encoder-msgpack	uwsgi	"This package contains the msgpack log encoder plugin for uWSGI"	GPLv2 with exceptions			

Package name	Source	Package Description	Package License	Encryption types	Encryption Max Key Length	Comment
python3-fixtures	python-fixtures	"Fixtures defines a Python contract for reusable state / support logic primarily for unit testing. Helper and adaption logic is included to make it easy to write your own fixtures using the fixtures contract. Glue code is provided that makes using fixtures that meet the Fixtures contract in unittest compatible test cases easy and straight forward."	ASL 2.0 or BSD			
python-jsonpointer	python-jsonpointer	"Library to resolve JSON Pointers according to RFC 6901."	BSD			
python-glanceclient-doc	python-glanceclient	"This is a client for the OpenStack Glance API. There's a Python API (the glanceclient module) and a command-line script (glance). Each implements 100% of the OpenStack Glance API. This package contains auto-generated documentation."	ASL 2.0			
python3-unittest2	python-unittest2	"unittest2 is a backport of the new features added to the unittest testing framework in Python 2.7 and onwards. It is tested to run on Python 2.6 2.7 3.2 3.3 3.4 and pypy."	BSD			
python-openstackclient-doc	python-openstackclient	"Documentation for the client library for interacting with Openstack API."	ASL 2.0			
python-pillow-devel	python-pillow	"Development files for python-pillow."	MIT			
fb303-devel	thrift	"The fb303-devel package contains header files for fb303"	ASL 2.0 and BSD and zlib			
python3-psutil	python-psutil	"psutil is a module providing an interface for retrieving information on all running processes and system utilization (CPU memory disks network users) in a portable way by using Python 3 implementing many functionalities offered by command line tools such as: ps top df kill free lsof free netstat ifconfig nice ionice iostat iotop uptime pidof tty who taskset pmap."	BSD			
rubygem-net-ssh-gateway	rubygem-net-ssh-gateway	"A simple library to assist in establishing tunneled Net::SSH connections"	MIT			
python-sqlalchemy-debuginfo	python-sqlalchemy	"This package provides debug information for package python-sqlalchemy. Debug information is useful when developing applications that use this package or when debugging this package."	MIT			
mcollective-client	mcollective	"Client tools for the mcollective application server"	ASL 2.0			
python-dogpile-cache	python-dogpile-cache	"A caching API built around the concept of a "dogpile lock" which allows continued access to an expiring data value while a single thread generates a new value. dogpile.cache builds on the `dogpile.core` < <a href="http://pypi.python.org/pypi/dogpile.core">http://pypi.python.org/pypi/dogpile.core</a> >` _locking system which implements the idea of "allow one creator to write while others read" in the abstract. Overall dogpile.cache is intended as a replacement to the `Beaker` < <a href="http://beaker.groovie.org">http://beaker.groovie.org</a> >` _caching system the internals of which are written by the same author. All the ideas of Beaker which "work" are re-implemented in dogpile.cache in a more efficient and succinct manner and all the cruft (Beaker's internals were first written in 2005) relegated to the trash heap."	BSD			
python-amqp-doc	python-amqp	"Documentation for python-amqp"	LGPLv2+			
python-cassandra-driver-debuginfo	python-cassandra-driver	"This package provides debug information for package python-cassandra-driver. Debug information is useful when developing applications that use this package or when debugging this package."	ASL 2.0 and MIT			
rubygem-mcollective-client-doc	rubygem-mcollective-client	"Documentation for rubygem-mcollective-client"	MIT			
python2-flask-restful	python-flask-restful	"Flask-RESTful is Python 2 extension for Flask that adds support for quickly building REST APIs. It is a lightweight abstraction that works with your existing ORM/libraries."	BSD			
python-jmespath	python-jmespath	"JMESPath allows you to declaratively specify how to extract elements from a JSON document. This package contains the library for Python 2."	ASL 2.0			
python3-pbr	python-pbr	"Manage dynamic plugins for Python applications"	ASL 2.0			
python-requestbuilder	python-requestbuilder	"Requestbuilder is a framework for creating command line tools that send HTTP requests simply and quickly."	ISC			
python-keystone	openstack-keystone	"Keystone is a Python implementation of the OpenStack ( <a href="http://www.openstack.org">http://www.openstack.org</a> ) identity service API. This package contains the Keystone Python library."	ASL 2.0			
python3-networkx	python-networkx	"NetworkX is a Python 3 package for the creation manipulation and study of the structure dynamics and functions of complex networks."	BSD			

Package name	Source	Package Description	Package License	Encryption types	Encryption Max Key Length	Comment
openstack-ceilometer-central	openstack-ceilometer	"OpenStack ceilometer provides services to measure and collect metrics from OpenStack components. This package contains the central ceilometer agent."	ASL 2.0			
rubygem-netaddr	rubygem-netaddr	" A package for manipulating network addresses."	MIT			
rubygem-rethtool	rubygem-rethtool	"Partial Ruby wrapper around the SIOCETHTOOL ioctl"	GPLv3			
python-croniter	python-croniter	"Croniter provides iteration for datetime object with cron like format."	MIT			
python-suds-jurko	python-suds-jurko	"This is hopefully just a temporary fork of the original suds Python library project created because the original project development seems to have stalled. Should be reintegrated back into the original project if it ever gets revived again."	LGPL-3.0+			
openstack-glance-doc	openstack-glance	"OpenStack Image Service (code-named Glance) provides discovery registration and delivery services for virtual disk images. This package contains documentation files for glance."	ASL 2.0			
uwsgi-plugin-cache	uwsgi	"This package contains the cache plugin for uWSGI"	GPLv2 with exceptions			
python-aioeventlet	python-aioeventlet	"aioeventlet implements the asyncio API (PEP 3156) on top of eventlet. It makes possible to write asyncio code in a project currently written for eventlet."	ASL 2.0			
python-blist	python-blist	"The blist is a drop-in replacement for the Python list that provides better performance when modifying large lists. The blist package also provides sortedlist sortedset weaksortedlist weaksortedset sortdict and btuple types. Python's built-in list is a dynamically-sized array; to insert or remove an item from the beginning or middle of the list it has to move most of the list in memory i.e. O(n) operations. The blist uses a flexible hybrid array/tree structure and only needs to move a small portion of items in memory specifically using O(log n) operations. For small lists the blist and the built-in list have virtually identical performance."	BSD			
python2-greenlet-devel	python-greenlet	"This package contains header files required for C modules development."	MIT			
python3-coverage	python-coverage	"Coverage.py is a Python 3 module that measures code coverage during Python execution. It uses the code analysis tools and tracing hooks provided in the Python standard library to determine which lines are executable and which have been executed."	BSD and (MIT or GPLv2)			
python-alembic	python-alembic	"Alembic is a new database migrations tool written by the author of SQLAlchemy. A migrations tool offers the following functionality: * Can emit ALTER statements to a database in order to change the structure of tables and other constructs. * Provides a system whereby "migration scripts" may be constructed; each script indicates a particular series of steps that can "upgrade" a target database to a new version and optionally a series of steps that can "downgrade" similarly doing the same steps in reverse. * Allows the scripts to execute in some sequential manner. Documentation and status of Alembic is at <a href="http://readthedocs.org/docs/alembic/">http://readthedocs.org/docs/alembic/</a> "	MIT			
rubygem-deep_merge-doc	rubygem-deep_merge	"Documentation for rubygem-deep_merge"	MIT			
python34-devel	python34	"This package contains libraries and header files used to build applications with and native libraries for Python 3"	Python			
python-oslo-context-doc	python-oslo-context	"Documentation for the oslo-context library."	ASL 2.0			
Xaw3d	Xaw3d	"Xaw3d is an enhanced version of the MIT Athena Widget set for the X Window System. Xaw3d adds a three-dimensional look to applications with minimal or no source code changes. You should install Xaw3d if you are using applications which incorporate the MIT Athena widget set and you'd like to incorporate a 3D look into those applications."	MIT			
libnetfilter_cttimeout-devel	libnetfilter_cttimeout	"This infrastructure allows you to define fine-grain timeout policies per flow. Basically from user-space you can create timeout policy objects via nfct_timeout_alloc() set the policy attributes via nfct_timeout *_attr_set() and then build the ctnetlink message to communicate this new timeout policy to the kernel."	GPLv2+			
python-tempest-lib	python-tempest-lib	"ExteOpenStack Functional Testing Library"	Apache-2			
rubygem-ffi-yajl	rubygem-ffi-yajl	"Ruby FFI wrapper around YAJL 2.x"	Apache-2.0			

Package name	Source	Package Description	Package License	Encryption types	Encryption Max Key Length	Comment
python2-rsa	python-rsa	"Python-RSA is a pure-Python RSA implementation. It supports encryption and decryption signing and verifying signatures and key generation according to PKCS#1 version 1.5. It can be used as a Python library as well as on the command-line."	ASL 2.0	rsa	unlimited	typically <=8192
python-beaker	python-beaker	"Beaker is a caching library that includes Session and Cache objects built on Myghty's Container API used in MyghtyUtils. WSGI middleware is also included to manage Session objects and signed cookies."	BSD and MIT			
erlang-cosTransactions	erlang	"Orber OMG Transaction Service."	ERPL			
uwsgi-plugin-ssi	uwsgi	"This package contains the ssi plugin for uWSGI"	GPLv2 with exceptions			
dpkg-perl	dpkg	"This package provides the perl modules used by the scripts in dpkg-dev. They cover a wide range of functionalities. Among them there are the following modules: - Dpkg::Arch: manipulate Debian architecture information - Dpkg::BuildOptions: parse and manipulate DEB_BUILD_OPTIONS - Dpkg::Changelog: parse Debian changelogs - Dpkg::Checksums: generate and parse checksums - Dpkg::Compression::Process: wrapper around compression tools - Dpkg::Compression::FileHandle: transparently (de)compress files - Dpkg::Control: parse and manipulate Debian control information (.dsc .changes Packages/Sources entries etc.) - Dpkg::Deps: parse and manipulate dependencies - Dpkg::ErrorHandling: common error functions - Dpkg::Index: collections of Dpkg::Control (Packages/Sources files for example) - Dpkg::IPC: spawn sub-processes and feed/retrieve data - Dpkg::Substvars: substitute variables in strings - Dpkg::Vendor: identify current distribution vendor - Dpkg::Version: parse and manipulate Debian package versions"	GPLv2 and GPLv2+ and LGPLv2+ and Public Domain and BSD			
rubygem-net-ssh-multi-doc	rubygem-net-ssh-multi	"This package contains documentation for rubygem-net-ssh-multi"	MIT			
erlang-typer	erlang	"TYPe annotator for Erlang programs."	ERPL			
ruby-saslwrapper	saslwrapper	"Ruby bindings for the saslwrapper library."	ASL 2.0			
rubygem-openstack	rubygem-openstack	" Ruby Openstack Compute and Object-Store bindings for the v1.0 OSAPI. Currently supports both v1.0 and v2.0 (keystone) authentication."	MIT			
rubygem-Platform	rubygem-Platform	"Hopefully robust platform sensing"	LGPLv2+			
python-amqp	python-amqp	"Low-level AMQP client for Python This is a fork of amqplib maintained by the Celery project. This library should be API compatible with librabbitmq."	LGPLv2+			
uwsgi-router-hash	uwsgi	"This package contains the hash router plugin for uWSGI"	GPLv2 with exceptions			
erlang-eunit	erlang	"Support for unit testing."	ERPL			
openjpeg2-tools	openjpeg2	"Command line tools for JPEG 2000 file manipulation using OpenJPEG2: * opj2_compress * opj2_decompress * opj2_dump"	BSD and MIT			
erlang-runtime_tools	erlang	"A set of tools to include in a production system."	ERPL			
openjpeg2-devel	openjpeg2	"The openjpeg2-devel package contains libraries and header files for developing applications that use OpenJPEG 2."	BSD and MIT			
pprof	gperftools	"Pprof is a heap and CPU profiler tool part of the gperftools suite."	BSD			
rubygem-minitest-doc	rubygem-minitest	"Documentation for rubygem-minitest."	MIT			
thrift	thrift	" The Apache Thrift software framework for cross-language services development combines a software stack with a code generation engine to build services that work efficiently and seamlessly between C++ Java Python and other languages."	ASL 2.0 and BSD and zlib			
python3-nose	python-nose	"nose extends the test loading and running features of unittest making it easier to write find and run tests. By default nose will run tests in files or directories under the current working directory whose names include "test" or "Test" at a word boundary (like "test_this" or "functional_test" or "TestClass" but not "libtest"). Test output is similar to that of unittest but also includes captured stdout output from failing tests for easy print-style debugging. These features and many more are customizable through the use of plugins. Plugins included with nose provide support for doctest code coverage and profiling flexible attribute-based test selection output capture and more. This package installs the nose module and nosetests3 program that can discover python3 unittests."	LGPLv2+ and Public Domain			
python2-django-formtools-doc	python-django-formtools	"Django's "formtools" is a set of high-level abstractions for Django forms. This is the associated documentation."	BSD			
uwsgi-router-access	uwsgi	"This package contains the router_access plugin for uWSGI"	GPLv2 with exceptions			

Package name	Source	Package Description	Package License	Encryption types	Encryption Max Key Length	Comment
python-pycparser	python-pycparser	"pycparser is a complete parser for the C language written in pure Python. It is a module designed to be easily integrated into applications that need to parse C source code."	BSD			
python-positional-doc	python-positional	"Documentation for positional"	ASL 2.0			
python-httplib2	python-httplib2	"A comprehensive HTTP client library that supports many features left out of other HTTP libraries."	MIT			
cppzmq-devel	zeromq	"The cppzmq-devel package contains libraries and header files for developing applications that use the C++ header files of zeromq."	MIT			
rubygem-extlib	rubygem-extlib	"Support library for Merb"	Distributable			
python3-scipy	scipy	"Scipy is open-source software for mathematics science and engineering. The core library is NumPy which provides convenient and fast N-dimensional array manipulation. The SciPy library is built to work with NumPy arrays and provides many user-friendly and efficient numerical routines such as routines for numerical integration and optimization. Together they run on all popular operating systems are quick to install and are free of charge. NumPy and SciPy are easy to use but powerful enough to be depended upon by some of the world's leading scientists and engineers."	BSD and LGPLv2+			
python-pika	python-pika	"Pika is a pure-Python implementation of the AMQP 0-9-1 protocol that tries to stay fairly independent of the underlying network support library. This package provides the Python 2 implementation."	BSD			
python-oslo-concurrency-doc	python-oslo-concurrency	"Documentation for the python library oslo.concurrency"	Apache-2.0			
ruby-debuginfo	ruby	"This package provides debug information for package ruby. Debug information is useful when developing applications that use this package or when debugging this package."	(Ruby or BSD) and Public Domain			
PyYAML-debuginfo	PyYAML	"This package provides debug information for package PyYAML. Debug information is useful when developing applications that use this package or when debugging this package."	MIT			
python34-test	python34	"The test modules from the main python34 package. These are in a separate package to save space as they are almost never used in production. You might want to install the python34-test package if you're developing python 3 code that uses more than just unittest and/or test_support.py."	Python			
rubygem-rsync	rubygem-rsync	"Ruby/Rsync is a Ruby library that can synchronize files between remote hosts by wrapping a call to the rsync binary."	MIT			
python-websockify	python-websockify	"Python WSGI based adapter for the Websockets protocol"	LGPLv3			
web-assets-filesystem	web-assets	"The basic directory layout for Web Assets."	Public Domain			
python-keyring	python-keyring	"The Python keyring lib provides a easy way to access the system keyring service from python. It can be used in any application that needs safe password storage. The keyring services supported by the Python keyring lib: * **OSXKeychain**: supports the Keychain service in Mac OS X. * **KDEKWallet**: supports the KDE's Kwallet service. * **GnomeKeyring**: for GNOME environment. * **SecretServiceKeyring**: for newer GNOME and KDE environments. * **WinVaultKeyring**: supports the Windows Credential Vault Besides these native password storing services provided by operating systems. Python keyring lib also provides following build-in keyrings. * **Win32CryptoKeyring**: for Windows 2k+. * **CryptedFileKeyring**: a command line interface keyring base on PyCrypto. * **UncryptedFileKeyring**: a keyring which leaves passwords directly in file."	MIT and Python			
openvswitch	openvswitch	"Open vSwitch provides standard network bridging functions and support for the OpenFlow protocol for remote per-flow control of traffic."	ASL 2.0 and LGPLv2+ and SISSL	lex	128	
openvswitch	openvswitch	"Open vSwitch provides standard network bridging functions and support for the OpenFlow protocol for remote per-flow control of traffic."	ASL 2.0 and LGPLv2+ and SISSL	crypt	65	
openvswitch	openvswitch	"Open vSwitch provides standard network bridging functions and support for the OpenFlow protocol for remote per-flow control of traffic."	ASL 2.0 and LGPLv2+ and SISSL	aes	256	
openvswitch	openvswitch	"Open vSwitch provides standard network bridging functions and support for the OpenFlow protocol for remote per-flow control of traffic."	ASL 2.0 and LGPLv2+ and SISSL	sha	512	
openvswitch	openvswitch	"Open vSwitch provides standard network bridging functions and support for the OpenFlow protocol for remote per-flow control of traffic."	ASL 2.0 and LGPLv2+ and SISSL	md5	128	

Package name	Source	Package Description	Package License	Encryption types	Encryption Max Key Length	Comment
python-qpid-common	python-qpid	"Shared code for Qpid Python language bindings."	ASL 2.0			
fuelmenu	fuelmenu	"Summary: Console utility for pre-configuration of Fuel server"	Apache			
python2-jsonpath-rw-ext	python-jsonpath-rw-ext	"Extensions for JSONPath RW"	ASL 2.0			
uwsgi-router-basicauth	uwsgi	"This package contains the basicauth plugin for uWSGI"	GPLv2 with exceptions			
python-ceilometer	openstack-ceilometer	"OpenStack ceilometer provides services to measure and collect metrics from OpenStack components. This package contains the ceilometer python library."	ASL 2.0			
python-keystoneauth1	python-keystoneauth1	"Keystoneauth provides a standard way to do authentication and service requests within the OpenStack ecosystem. It is designed for use in conjunction with the existing OpenStack clients and for simplifying the process of writing new clients."	ASL 2.0			
erlang-reltool	erlang	"Reltool is a release management tool. It analyses a given Erlang/OTP installation and determines various dependencies between applications. The graphical frontend depicts the dependencies and enables interactive customization of a target system. The backend provides a batch interface for generation of customized target systems."	ERPL			
rubygem-ffi-yajl-debuginfo	rubygem-ffi-yajl	"This package provides debug information for package rubygem-ffi-yajl. Debug information is useful when developing applications that use this package or when debugging this package."	Apache-2.0			
python2-zmq-tests	python-zmq	"The OMQ lightweight messaging kernel is a library which extends the standard socket interfaces with features traditionally provided by specialized messaging middle-ware products. OMQ sockets provide an abstraction of asynchronous message queues multiple messaging patterns message filtering (subscriptions) seamless access to multiple transport protocols and more. This package contains the testsuite for the python bindings."	LGPLv3+			
rubygem-io-console	ruby	"IO/Console provides very simple and portable access to console. It doesn't provide higher layer features such like curses and readline."	(Ruby or BSD) and Public Domain			
openstack-ironic-common	openstack-ironic	"Components common to all OpenStack Ironic services"	ASL 2.0			
pyOpenSSL-doc	pyOpenSSL	"Documentation for pyOpenSSL"	ASL 2.0			
openstack-cinder	openstack-cinder	"OpenStack Volume (codename Cinder) provides services to manage and access block storage volumes for use by Virtual Machine instances."	ASL 2.0			
libcephfs_jni1	ceph	"This package contains the Java Native Interface library for CephFS Java bindings."	LGPL-2.0			
fuel-nailgun	fuel-nailgun	"Nailgun package"	Apache			
os-cloud-config	os-cloud-config	"os-cloud-config offers a suite of tools and libraries used to do the initial configuration of OpenStack clouds."	ASL 2.0			
python-cephfs	ceph	"This package contains Python libraries for interacting with Ceph's distributed file system."	LGPL-2.0			
python-oslo-i18n	python-oslo-i18n	"The oslo.i18n library contain utilities for working with internationalization (i18n) features especially translation for text strings in an application or library."	ASL 2.0			
python-WSGIProxy2	python-WSGIProxy2	"WSGI Proxy that supports several HTTP backends."	MIT			
python-oslo-sphinx	python-oslo-sphinx	"The Oslo project intends to produce a python library containing infrastructure code shared by OpenStack projects. The APIs provided by the project should be high quality stable consistent and generally useful. The oslo-sphinx library contains Sphinx theme and extensions support used by OpenStack."	ASL 2.0			
uwsgi-router-xmldir	uwsgi	"This package contains the xmldir router plugin for uWSGI"	GPLv2 with exceptions			
rubygem-deep_merge	rubygem-deep_merge	"Recursively merge hashes."	MIT			
thrift-qt	thrift	"The thrift-qt package contains Qt bindings for thrift."	ASL 2.0 and BSD and zlib			
erlang-cosEvent	erlang	"Orber OMG Event Service."	ERPL			
openstack-swift-object	openstack-swift	"OpenStack Object Storage (Swift) aggregates commodity servers to work together in clusters for reliable redundant and large-scale storage of static objects. This package contains the openstack-swift object server."	ASL 2.0			
dpkg-devel	dpkg	"This package provides the header files and static library necessary to develop software using dpkg the same library used internally by dpkg. Note though that the API is to be considered volatile and might change at any time use at your own risk."	GPLv2 and GPLv2+ and LGPLv2+ and Public Domain and BSD			

Package name	Source	Package Description	Package License	Encryption types	Encryption Max Key Length	Comment
openstack-nova-cells	openstack-nova	"OpenStack Compute (codename Nova) is open source software designed to provision and manage large networks of virtual machines creating a redundant and scalable cloud computing platform. It gives you the software control panels and APIs required to orchestrate a cloud including running instances managing networks and controlling access through users and projects. OpenStack Compute strives to be both hardware and hypervisor agnostic currently supporting a variety of standard hardware configurations and seven major hypervisors. This package contains the Nova Cells service providing additional scaling and (geographic) distribution for compute services."	ASL 2.0			
libunwind-devel	libunwind	"The libunwind-devel package includes the libraries and header files for libunwind."	BSD			
python-crypto	python-crypto	"PyCrypto is a collection of both secure hash functions (such as MD5 and SHA) and various encryption algorithms (AES DES RSA ElGamal etc.)."	Public Domain and Python			
python3-repoze-who	python-repoze-who	"repoze.who is an identification and authentication framework for arbitrary WSGI applications. It acts as WSGI middleware. repoze.who is inspired by Zope 2's Pluggable Authentication Service (PAS) (but repoze.who is not dependent on Zope in any way; it is useful for any WSGI application). It provides no facility for authorization (ensuring whether a user can or cannot perform the operation implied by the request). This is considered to be the domain of the WSGI application."	BSD			
zeromq3-debuginfo	zeromq3	"This package provides debug information for package zeromq3. Debug information is useful when developing applications that use this package or when debugging this package."	LGPLv3+ with exceptions			
rubygem-atomic-debuginfo	rubygem-atomic	"This package provides debug information for package rubygem-atomic. Debug information is useful when developing applications that use this package or when debugging this package."	ASL 2.0			
python-kombu	python-kombu	"AMQP is the Advanced Message Queuing Protocol an open standard protocol for message orientation queuing routing reliability and security. One of the most popular implementations of AMQP is RabbitMQ. The aim of Kombu is to make messaging in Python as easy as possible by providing an idiomatic high-level interface for the AMQP protocol and also provide proven and tested solutions to common messaging problems."	BSD and Python			
python3-tornado	python-tornado	"Tornado is an open source version of the scalable non-blocking web server and tools. The framework is distinct from most mainstream web server frameworks (and certainly most Python frameworks) because it is non-blocking and reasonably fast. Because it is non-blocking and uses epoll it can handle thousands of simultaneous standing connections which means it is ideal for real-time web services."	ASL 2.0			
rubygem-dalli-doc	rubygem-dalli	"Documentation for rubygem-dalli"	MIT			
python-ironic	openstack-ironic	"Ironic python libraries."	ASL 2.0			
lz4	lz4-r131	"LZ4 is an extremely fast loss-less compression algorithm providing compression speed at 400 MB/s per core scalable with multi-core CPU. It also features an extremely fast decoder with speed in multiple GB/s per core typically reaching RAM speed limits on multi-core systems."	GPLv2+ and BSD			
python-paramiko-doc	python-paramiko	" Paramiko (a combination of the esperanto words for "paranoid" and "friend") is a module for python 2.3 or greater that implements the SSH2 protocol for secure (encrypted and authenticated) connections to remote machines. Unlike SSL (aka TLS) the SSH2 protocol does not require heirarchical certificates signed by a powerful central authority. You may know SSH2 as the protocol that replaced telnet and rsh for secure access to remote shells but the protocol also includes the ability to open arbitrary channels to remote services across an encrypted tunnel. (This is how sftp works for example.) This is the documentation and demos."	LGPLv2+	rsa	unlimited	typically <=8192
python3-tools	python3	"This package contains several tools included with Python 3"	Python			
pysendfile-debuginfo	pysendfile	"This package provides debug information for package pysendfile. Debug information is useful when developing applications that use this package or when debugging this package."	MIT			
ceph-test	ceph	"This package contains Ceph benchmarks and test tools."	LGPL-2.0			
htop	htop	"htop is an interactive text-mode process viewer for Linux similar to top(1)."	GPL+			
rubygem-i18n	rubygem-i18n	"Ruby Internationalization and localization solution."	MIT and (BSD or Ruby)			
cephfs-java	ceph	"This package contains the Java libraries for the Ceph File System."	LGPL-2.0			
qpidd-proton-c-devel	qpidd-proton	"Development libraries for writing messaging apps with Qpid Proton."	ASL 2.0			

Package name	Source	Package Description	Package License	Encryption types	Encryption Max Key Length	Comment
python3-cliff	python-cliff	"cliff is a framework for building command line programs. It uses setuptools entry points to provide subcommands output formatters and other extensions. Documentation for cliff is hosted on readthedocs.org at <a href="http://readthedocs.org/docs/cliff/en/latest/">http://readthedocs.org/docs/cliff/en/latest/</a> "	ASL 2.0			
python3-testresources	python-testresources	"testresources: extensions to python unittest to allow declarative use of resources by test cases."	ASL 2.0 and BSD and GPLv2+			
lz4-static	lz4-r131	"LZ4 is an extremely fast loss-less compression algorithm. This package contains static libraries for static linking of applications."	BSD			
python-migrate	python-migrate	"Schema migration tools for SQLAlchemy designed to support an agile approach to database design and make it easier to keep development and production databases in sync as schema changes are required. It allows you to manage database change sets and database repository versioning."	MIT			
yasm-devel	yasm	"Yasm is a complete rewrite of the NASM assembler under the "new" BSD License (some portions are under other licenses see COPYING for details). It is designed from the ground up to allow for multiple assembler syntaxes to be supported (eg NASM TASM GAS etc.) in addition to multiple output object formats and even multiple instruction sets. Another primary module of the overall design is an optimizer module. Install this package if you need to rebuild applications that use yasm."	BSD and (GPLv2+ or Artistic or LGPLv2+) and LGPLv2			
python-progressbar	python-progressbar	" This library provides a text mode progress bar. This is typically used to display the progress of a long running operation providing a visual clue that processing is under way. The progressbar module is very easy to use yet very powerful. And automatically supports features like auto-re-sizing when available."	LGPLv2+			
python-saslwrapper	saslwrapper	"Python bindings for the saslwrapper library."	ASL 2.0			
koan	cobbler	"Koan stands for kickstart-over-a-network and allows for both network installation of new virtualized guests and reinstallation of an existing system. For use with a boot-server configured with Cobbler"	GPLv2+			
python-heatclient-doc	python-heatclient	"This is a client for the OpenStack Heat API. There's a Python API (the heatclient module) and a command-line script (heat). Each implements 100% of the OpenStack Heat API. This package contains auto-generated documentation."	ASL 2.0			
gperftools-debuginfo	gperftools	"This package provides debug information for package gperftools. Debug information is useful when developing applications that use this package or when debugging this package."	BSD			
postgresql-plpython	postgresql	"The postgresql-plpython package contains the PL/Python procedural language which is an extension to the PostgreSQL database server. Install this if you want to write database functions in Python 2."	PostgreSQL			
uwsgi-logger-redis	uwsgi	"This package contains the redislog logger plugin for uWSGI"	GPLv2 with exceptions			
python-pyeclib	python-pyeclib	"This library provides a simple Python interface for implementing erasure codes. A number of back-end implementations is supported either directly or through the C interface liberasurecode."	BSD			
erlang	erlang	"Erlang is a general-purpose programming language and runtime environment. Erlang has built-in support for concurrency distribution and fault tolerance. Erlang is used in several large telecommunication systems from Ericsson."	ERPL			
python-repoze-lru	python-repoze-lru	"repoze.lru is a LRU (least recently used) cache implementation. Keys and values that are not used frequently will be evicted from the cache faster than keys and values that are used frequently."	BSD			
python3-mako	python-mako	"Mako is a template library written in Python. It provides a familiar non-XML syntax which compiles into Python modules for maximum performance. Mako's syntax and API borrows from the best ideas of many others including Django templates Cheetah Myghty and Genshi. Conceptually Mako is an embedded Python (i.e. Python Server Page) language which refines the familiar ideas of componentized layout and inheritance to produce one of the most straightforward and flexible models available while also maintaining close ties to Python calling and scoping semantics. This package contains the mako module built for use with python3."	(MIT and Python) and (BSD or GPLv2)			
uwsgi-router-spnego	uwsgi	"This package contains the spnego router plugin for uWSGI"	GPLv2 with exceptions			
qpid-proton-debuginfo	qpid-proton	"This package provides debug information for package qpid-proton. Debug information is useful when developing applications that use this package or when debugging this package."	ASL 2.0			



Package name	Source	Package Description	Package License	Encryption types	Encryption Max Key Length	Comment
mdi-fonts	python-XStatic-mdi	"mdi fonts"	OFL			
erlang-cosNotification	erlang	"Orber OMG Notification Service."	ERPL			
rubygem-ffi-yajl-doc	rubygem-ffi-yajl	"Documentation for rubygem-ffi-yajl"	Apache-2.0			
mysql-wsrep-client-5.6	MySQL	"This package contains the standard MySQL clients and administration tools. For a description of MySQL see the base MySQL RPM or <a href="http://www.mysql.com/">http://www.mysql.com/</a> "	Copyright (c) 2000			
librados2	ceph	"RADOS is a reliable autonomic distributed object storage cluster developed as part of the Ceph distributed storage system. This is a shared library allowing applications to access the distributed object store using a simple file-like interface."	LGPL-2.0			
python-oslo-log-doc	python-oslo-log	"Documentation for the oslo.log library."	ASL 2.0			
openstack-neutron-m12	openstack-neutron	"Neutron provides an API to dynamically request and configure virtual networks. This package contains a Neutron plugin that allows the use of drivers to support separately extensible sets of network types and the mechanisms for accessing those types."	ASL 2.0			
python-beautifulsoup4	python-beautifulsoup4	"Beautiful Soup is a Python HTML/XML parser designed for quick turnaround projects like screen-scraping. Three features make it powerful: Beautiful Soup won't choke if you give it bad markup. Beautiful Soup provides a few simple methods and Pythonic idioms for navigating searching and modifying a parse tree. Beautiful Soup automatically converts incoming documents to Unicode and outgoing documents to UTF-8. Beautiful Soup parses anything you give it. Valuable data that was once locked up in poorly-designed websites is now within your reach. Projects that would have taken hours take only minutes with Beautiful Soup."	MIT			
libnetfilter_cthelper-debuginfo	libnetfilter_cthelper	"This package provides debug information for package libnetfilter_cthelper. Debug information is useful when developing applications that use this package or when debugging this package."	GPLv2			
mysql-wsrep-devel-5.6	MySQL	"This package contains the development header files and libraries necessary to develop MySQL client applications. For a description of MySQL see the base MySQL RPM or <a href="http://www.mysql.com/">http://www.mysql.com/</a> "	Copyright (c) 2000			
python-cryptography-vectors	python-cryptography-vectors	"Test vectors for the cryptography package. The only purpose of this package is to be a building requirement for python-cryptography otherwise it has no use. Don't install it unless you really know what you are doing."	ASL 2.0 or BSD			
python-anyjson	python-anyjson	"Anyjson loads whichever is the fastest JSON module installed and provides a uniform API regardless of which JSON implementation is used."	BSD			
uwsgi-router-cache	uwsgi	"This package contains the cache router plugin for uWSGI"	GPLv2 with exceptions			
python-ddt	python-ddt	"DDT (Data-Driven Tests) allows you to multiply one test case by running it with different test data and make it appear as multiple test cases. It is used in combination with other testing frameworks like unittest and nose."	MIT			
rubygem-xpath-doc	rubygem-xpath	"Documentation for rubygem-xpath"	MIT			
python-cm-api	python-cm-api	"Client library for Cloudera API. Cloudera Manager is the market-leading management platform for CDH. As the industry's first end-to-end management application for Apache Hadoop Cloudera Manager sets the standard for enterprise deployment by delivering granular visibility into and control over every part of CDH ? empowering operators to improve cluster performance enhance quality of service increase compliance and reduce administrative costs."	Apache License			
python-packetary	fuel-mirror	"Provides object model and API for dealing with deb and rpm repositories. One can use this framework to implement operations like building repository from a set of packages clone repository find package dependencies mix repositories pull out a subset of packages into a separate repository etc."	GPLv2			
cloud-utils	cloud-utils	"This package provides a useful set of utilities for managing cloud images. The euca2ools package (a dependency of cloud-utils) provides an Amazon EC2 API compatible set of utilities for bundling kernels ramdisks and root filesystems and uploading them to either EC2 or UEC. The tasks associated with image bundling are often tedious and repetitive. The cloud-utils package provides several scripts that wrap the complicated tasks with a much simpler interface."	GPLv3			

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python-ecdsa	python-ecdsa	"This is an easy-to-use implementation of ECDSA cryptography (Elliptic Curve Digital Signature Algorithm) implemented purely in Python released under the MIT license. With this library you can quickly create keypairs (signing key and verifying key) sign messages and verify the signatures. The keys and signatures are very short making them easy to handle and incorporate into other protocols. NOTE: The prime192v1 and secp224r1 curves are currently disabled."	MIT			
python-pbr	python-pbr	"PBR is a library that injects some useful and sensible default behaviors into your setuptools run. It started off life as the chunks of code that were copied between all of the OpenStack projects. Around the time that OpenStack hit 18 different projects each with at least 3 active branches it seems like a good time to make that code into a proper re-usable library."	ASL 2.0			
MySQL-python-debug	MySQL-python	"Python interface to MySQL built for the CPython debug runtime"	GPLv2+			
python2-zerorpc	python-zerorpc	"zerorpc is a flexible RPC implementation based on zeromq and messagepack. Service APIs exposed with zerorpc are called "zeroservices". Python 2 version."	MIT			
rubygem-i18n-doc	rubygem-i18n	"Documentation for rubygem-i18n."	MIT and (BSD or Ruby)			
python-babel	babel	"Babel is composed of two major parts: * tools to build and work with gettext message catalogs * a Python interface to the CLDR (Common Locale Data Repository) providing access to various locale display names localized number and date formatting etc."	BSD			
sshpassexecinfo	sshpassexec	"This package provides debug information for package sshpass. Debug information is useful when developing applications that use this package or when debugging this package."	GPLv2			
python-jschema	python-jschema	"jschema is JSON Schema validator currently based on http://tools.ietf.org/html/draft-zyp-json-schema-03"	MIT			
python-imaging	python-imaging	"Python Imaging Library The Python Imaging Library (PIL) adds image processing capabilities to your Python interpreter. This library provides extensive file format support an efficient internal representation and powerful image processing capabilities. Notice that in order to reduce the package dependencies there are three subpackages: devel (for development); tk (to interact with the tk interface) and sane (scanning devices interface)."	MIT			
python3-docutils	python-docutils	"The Docutils project specifies a plaintext markup language reStructuredText which is easy to read and quick to write. The project includes a python library to parse rST files and transform them into other useful formats such as HTML XML and TeX as well as commandline tools that give the enduser access to this functionality. Currently the library supports parsing rST that is in standalone files and PEPs (Python Enhancement Proposals). Work is underway to parse rST from Python inline documentation modules and packages. This package contains the module ported to run under python3."	Public Domain and BSD and Python and GPLv3+			
python-itsdangerous	python-itsdangerous	"Itsdangerous is a Python library for passing data through untrusted environments (for example HTTP cookies) while ensuring the data is not tampered with. Internally itsdangerous uses HMAC and SHA1 for signing by default and bases the implementation on the Django signing module. It also however supports JSON Web Signatures (JWS)."	BSD			
wxGTK-devel	wxGTK	"This package include files needed to link with the wxGTK2 library."	wxWidgets			
python-simplegeneric	python-simplegeneric	"The simplegeneric module lets you define simple single-dispatch generic functions akin to Python's built-in generic functions like len() iter() and so on. However instead of using specially-named methods these generic functions use simple lookup tables akin to those used by e.g. pickle.dump() and other generic functions found in the Python standard library."	Python or ZPLv2.1			
erlang-debuginfo	erlang	"This package provides debug information for package erlang. Debug information is useful when developing applications that use this package or when debugging this package."	ERPL			
uwsgi-devel	uwsgi	"This package contains the development header files and libraries for uWSGI extensions"	GPLv2 with exceptions			

Package name	Source	Package Description	Package License	Encryption types	Encryption Max Key Length	Comment
fuel-library9.0	fuel-library9.0	" Fuel is the Ultimate Do-it-Yourself Kit for OpenStack Purpose built to assimilate the hard-won experience of our services team it contains the tooling information and support you need to accelerate time to production with OpenStack cloud. OpenStack is a very versatile and flexible cloud management platform. By exposing its portfolio of cloud infrastructure services ? compute storage networking and other core resources ? through ReST APIs it enables a wide range of control over these services both from the perspective of an integrated Infrastructure as a Service (IaaS) controlled by applications as well as automated manipulation of the infrastructure itself. This architectural flexibility doesn?t set itself up magically; it asks you the user and cloud administrator to organize and manage a large array of configuration options. Consequently getting the most out of your OpenStack cloud over time ? in terms of flexibility scalability and manageability ? requires a thoughtful combination of automation and configuration choices. This package contains deployment manifests and code to execute provisioning of master and slave nodes."	GPLv2			
wxGTK-media	wxGTK	"Multimedia add-on for the wxWidgets library."	wxWidgets			
openstack-nova-api	openstack-nova	"OpenStack Compute (codename Nova) is open source software designed to provision and manage large networks of virtual machines creating a redundant and scalable cloud computing platform. It gives you the software control panels and APIs required to orchestrate a cloud including running instances managing networks and controlling access through users and projects. OpenStack Compute strives to be both hardware and hypervisor agnostic currently supporting a variety of standard hardware configurations and seven major hypervisors. This package contains the Nova services providing programmatic access."	ASL 2.0			
python-rbd	ceph	"This package contains Python libraries for interacting with Ceph's RADOS block device."	LGPL-2.0			
python-pygraphviz-doc	python-pygraphviz	"Documentation for PyGraphViz."	BSD			
python-cryptography-debuginfo	python-cryptography	"This package provides debug information for package python-cryptography. Debug information is useful when developing applications that use this package or when debugging this package."	ASL 2.0 or BSD			
python-sphinx-doc	python-sphinx	"Sphinx is a tool that makes it easy to create intelligent and beautiful documentation for Python projects (or other documents consisting of multiple reStructuredText sources) written by Georg Brandl. It was originally created to translate the new Python documentation but has now been cleaned up in the hope that it will be useful to many other projects. This package contains documentation in reST and HTML formats."	BSD			
lrzip-static	lrzip	"Static library implementing Long Range ZIP or Lzma RZIP algorithm and archive format."	GPLv2+			
rubygem-rack	rubygem-rack	"Rack provides a minimal modular and adaptable interface for developing web applications in Ruby. By wrapping HTTP requests and responses in the simplest way possible it unifies and distills the API for web servers web frameworks and software in between (the so-called middleware) into a single method call."	MIT and (Ruby or BSD) and BSD			
erlang-percept	erlang	"A concurrency profiler tool."	ERPL			
uwsgi-plugin-rpc	uwsgi	"This package contains the RPC plugin for uWSGI"	GPLv2 with exceptions			
python3-numpy-f2py	numpy	"This package includes a version of f2py that works properly with NumPy."	BSD and Python			
facter	facter	"Facter is a lightweight program that gathers basic node information about the hardware and operating system. Facter is especially useful for retrieving things like operating system names hardware characteristics IP addresses MAC addresses and SSH keys. Facter is extensible and allows gathering of node information that may be custom or site specific. It is easy to extend by including your own custom facts. Facter can also be used to create conditional expressions in Puppet that key off the values returned by facts."	ASL 2.0			
fuel-utils	fuel-library9.0	"This package contains a set of helpers to maintain Fuel services"	GPLv2			
mongodb-test	mongodb	"This package contains the regression test suite distributed with the MongoDB sources."	AGPLv3 and zlib and ASL 2.0			
erlang-examples	erlang	"Examples for some Erlang modules."	ERPL			
rest-bench	ceph	"RESTful benchmer that can be used to benchmark radosgw performance."	LGPL-2.0			

Package name	Source	Package Description	Package License	Encryption types	Encryption Max Key Length	Comment
rubygem-wmi-lite-debuginfo	rubygem-wmi-lite	"This package provides debug information for package rubygem-wmi-lite. Debug information is useful when developing applications that use this package or when debugging this package."	Apache 2.0			
uwsgi-router-fast	uwsgi	"This package contains the fastrouter (proxy) plugin for uWSGI"	GPLv2 with exceptions			
uwsgi-alarm-curl	uwsgi	"This package contains the alarm_curl alarm plugin for uWSGI"	GPLv2 with exceptions			
rubygem-erubis	rubygem-erubis	"Erubis is a very fast secure and extensible implementation of eRuby."	MIT			
python-ceilometerclient-doc	python-ceilometerclient	"This is a client library for Ceilometer built on the Ceilometer API. It provides a Python API (the ceilometerclient module) and a command-line tool (ceilometer). This package contains auto-generated documentation."	ASL 2.0			
python2-yaql	python-yaql	"YAQL library has a out of the box large set of commonly used functions"	ASL 2.0			
python-py	python-py	"The py lib is a Python development support library featuring the following tools and modules: * py.path: uniform local and svn path objects * py.apipkg: explicit API control and lazy-importing * py.iniconfig: easy parsing of .ini files * py.code: dynamic code generation and introspection * py.path: uniform local and svn path objects"	MIT and Public Domain			
python-wsgiref	python-wsgiref	"WSGI (PEP 333) Reference Library This is a standalone release of the wsgiref library included in Python 2.5."	Python or ZPLv2.1			
python34-tools	python34	"This package contains several tools included with Python 3"	Python			
rubygem-librarian-puppet-doc	rubygem-librarian-puppet	"Documentation for rubygem-librarian-puppet"	MIT			
rubygem-libyajl2-doc	rubygem-libyajl2	"This package contains documentation for rubygem-libyajl2."	Distributable			
uwsgi-router-redis	uwsgi	"This package contains the redis router plugin for uWSGI"	GPLv2 with exceptions			
python-pillow-doc	python-pillow	"Documentation for python-pillow."	MIT			
rubygem-rgen-doc	rubygem-rgen	"Documentation for rubygem-rgen."	MIT			
libstemmer	libstemmer	"Snowball stemming algorithms for use in Information Retrieval Snowball provides access to efficient algorithms for calculating a "stemmed" form of a word. This is a form with most of the common morphological endings removed; hopefully representing a common linguistic base form. This is most useful in building search engines and information retrieval software; for example a search with stemming enabled should be able to find a document containing "cycling" given the query "cycles". Snowball provides algorithms for several (mainly European) languages. It also provides access to the classic Porter stemming algorithm for English: although this has been superseded by an improved algorithm the original algorithm may be of interest to information retrieval researchers wishing to reproduce results of earlier experiments."	BSD			
python-oslo-reports-doc	python-oslo-reports	"Documentation for the oslo.messaging library."	ASL 2.0			
python-imaging-tk	python-imaging	"This package contains a Tk interface for python-imaging."	MIT			
python-oslo-vmware	python-oslo-vmware	"The Oslo project intends to produce a python library containing infrastructure code shared by OpenStack projects. The APIs provided by the project should be high quality stable consistent and generally useful. The Oslo VMWare library offers session and API call management for VMWare ESX/VC server."	ASL 2.0			
python-pillow	python-pillow	"Python image processing library fork of the Python Imaging Library (PIL) This library provides extensive file format support an efficient internal representation and powerful image processing capabilities. There are five subpackages: tk (tk interface) qt (PIL image wrapper for Qt) sane (scanning devices interface) devel (development) and doc (documentation)."	MIT			
uwsgi	uwsgi	"uWSGI is a fast (pure C) self-healing developer/sysadmin-friendly application container server. Born as a WSGI-only server over time it has evolved in a complete stack for networked/clustered web applications implementing message/object passing caching RPC and process management. It uses the uwsgi (all lowercase already included by default in the Nginx and Cherokee releases) protocol for all the networking/interprocess communications. Can be run in preforking mode threaded asynchronous/evented and supports various form of green threads/co-routine (like uGreen and Fiber). Sysadmin will love it as it can be configured via command line environment variables xml .ini and yaml files and via LDAP. Being fully modular can use tons of different technology on top of the same core."	GPLv2 with exceptions			

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python-mimeparse	python-mimeparse	"This module provides basic functions for parsing mime-type names and matching them against a list of media-ranges."	MIT			
python-futurist	python-futurist	"===== Futurist ===== Code from the future delivered to you in the now."	ASL 2.0			
lrzip-libs	lrzip	"Dynamic library implementing Long Range ZIP or Lzma RZIP algorithm and archive format."	GPLv2+			
fping-debuginfo	fping	"This package provides debug information for package fping. Debug information is useful when developing applications that use this package or when debugging this package."	BSD with advertising			
python3-jsonpath-rw	python-jsonpath-rw	" This library provides a robust and significantly extended implementation of JSONPath for Python with a clear AST for meta-programming. It is tested with Python 2.6 2.7 3.2 3.3 and PyPy. This library differs from other JSONPath implementations in that it is a full language implementation meaning the JSONPath expressions are first class objects easy to analyze transform parse print and extend."	ASL 2.0			
python3-dateutil	python-dateutil	"The dateutil module provides powerful extensions to the standard datetime module available in Python 2.3+. This is the version for Python 3."	Python			
rubygem-redcarpet-debuginfo	rubygem-redcarpet	"This package provides debug information for package rubygem-redcarpet. Debug information is useful when developing applications that use this package or when debugging this package."	ISC			
python-neutronclient	python-neutronclient	"Client library and command line utility for interacting with OpenStack Neutron's API."	ASL 2.0			
uwsgi-plugin-webdav	uwsgi	"This package contains the webdav plugin for uWSGI"	GPLv2 with exceptions			
fping	fping	"fping is a ping-like program which can determine the accessibility of multiple hosts using ICMP echo requests. fping is designed for parallelized monitoring of large numbers of systems and is developed with ease of use in scripting in mind."	BSD with advertising			
rubygem-rethtool-doc	rubygem-rethtool	"Documentation for rubygem-rethtool"	GPLv3			
uwsgi-plugin-spooler	uwsgi	"This package contains the spooler plugin for uWSGI"	GPLv2 with exceptions			
python-neutron-lib	python-neutron-lib	"OpenStack Neutron library shared by all Neutron sub-projects."	ASL 2.0			
python-rtslib	python-rtslib	"API for generic Linux SCSI kernel target. Includes the 'target' service and targetctl tool for restoring configuration."	ASL 2.0			
rubygems-devel	ruby	"Macros and development tools for packaging RubyGems."	Ruby or MIT			
rubygem-safe_yaml-doc	rubygem-safe_yaml	"Documentation for rubygem-safe_yaml"	MIT			
openstack-sahara-engine	openstack-sahara	"OpenStack data processing cluster as a service - Engine The Sahara project provides a simple means to provision a data-intensive application cluster (Hadoop or Spark) on top of OpenStack. It's the ex Savanna project renamed due to potential trademark issues. The sahara engine is the core service of sahara where sahara-api offloads tasks to it."	ASL 2.0			
debootstrap	debootstrap	"debootstrap is used to create a Debian base system from scratch without requiring the availability of dpkg or apt. It does this by downloading .deb files from a mirror site and carefully unpacking them into a directory which can eventually be chrooted into. This might be often useful coupled with virtualization techniques to run Debian GNU/Linux guest system."	MIT			
os-client-config	os-client-config	"os-client-config is a library for collecting client configuration for using an OpenStack cloud in a consistent and comprehensive manner. It will find cloud config for as few as 1 cloud and as many as you want to put in a config file. It will read environment variables and config files and it also contains some vendor specific default values so that you don't have to know extra info to use OpenStack."	ASL 2.0			
rubygem-mixlib-shellout	rubygem-mixlib-shellout	"Run external commands on Unix or Windows."	Distributable			
fb303-java	thrift	"The fb303-java package contains Java bindings for fb303."	ASL 2.0 and BSD and zlib			
uwsgi-plugin-curl-cron	uwsgi	"This package contains the curl_cron plugin for uWSGI"	GPLv2 with exceptions			
python3-pytest	pytest	"py.test provides simple yet powerful testing for Python."	MIT			

Package name	Source	Package Description	Package License	Encryption types	Encryption Max Key Length	Comment
python-cmd2	python-cmd2	"Enhancements for standard library's cmd module. Drop-in replacement adds several features for command-prompt tools: * Searchable command history (commands: "hi" "ji" "run") * Load commands from file save to file edit commands in file * Multi-line commands * Case-insensitive commands * Special-character shortcut commands (beyond cmd's "@" and "!") * Settable environment parameters * Parsing commands with flags * > (filename) >> (filename) redirect output to file * < (filename) gets input from file * bare > >> < redirect to/from paste buffer * accepts abbreviated commands when unambiguous * `py` enters interactive Python console * test apps against sample session transcript (see example/example.py) Usable without modification anywhere cmd is used; simply import cmd2.Cmd in place of cmd.Cmd. See docs at <a href="http://packages.python.org/cmd2/">http://packages.python.org/cmd2/</a> "	MIT			
openstack-nova-spicehtml5proxy	openstack-nova	"OpenStack Compute (codename Nova) is open source software designed to provision and manage large networks of virtual machines creating a redundant and scalable cloud computing platform. It gives you the software control panels and APIs required to orchestrate a cloud including running instances managing networks and controlling access through users and projects. OpenStack Compute strives to be both hardware and hypervisor agnostic currently supporting a variety of standard hardware configurations and seven major hypervisors. This package contains the Nova services providing the spice HTML5 console access service to Virtual Machines."	ASL 2.0			
openstack-neutron-sriov-nic-agent	openstack-neutron	"Neutron allows to run virtual instances using SR-IOV NIC hardware This package contains the Neutron agent to support advanced features of SR-IOV network cards."	ASL 2.0			
rubygem-librarian-puppet-simple-doc	rubygem-librarian-puppet-simple	"Documentation for rubygem-librarian-puppet-simple"	MIT			
rubygem-Platform-doc	rubygem-Platform	"Documentation for rubygem-Platform"	LGPLv2+			
python2-positional	python-positional	"A decorator which enforces only some args may be passed positionally."	ASL 2.0			
ceph-fuse	ceph	"FUSE based client for Ceph distributed network file system"	GPL-2.0			
lz4-devel	lz4-r131	"This package contains the header(.h) and library(.so) files required to build applications using liblz4 library."	BSD			
python-linecache2	python-linecache2	"A backport of linecache to older supported Pythons."	Python			
python-trollius	python-trollius	" Trollius is a portage of the Tulip project (asyncio module PEP 3156) on Python 2. Trollius works on Python 2.6-3.4. It has been tested on Windows Linux Mac OS X FreeBSD and OpenIndiana."	ASL 2.0			
python-snappy-debuginfo	python-snappy	"This package provides debug information for package python-snappy. Debug information is useful when developing applications that use this package or when debugging this package."	BSD			
python2-oslo-config-doc	python-oslo-config	"Documentation for the oslo-config library."	ASL 2.0			
python-http-parser	python-http-parser	"HTTP request/response parser for Python compatible with Python 2.x (>=2.5.4) Python 3 and Pypy. If possible a C parser based on http-parser_ from Ryan Dahl will be used."	MIT			
cloud-init	cloud-init	"Cloud-init is a set of init scripts for cloud instances. Cloud instances need special scripts to run during initialization to retrieve and install ssh keys and to let the user run various scripts."	GPLv3			
python-pathlib	python-pathlib	"pathlib offers a set of classes to handle filesystem paths. It offers the following advantages over using string objects: * No more cumbersome use of os and os.path functions. Everything can be done easily through operators attribute accesses and method calls. * Embodies the semantics of different path types. For example comparing Windows paths ignores casing. * Well-defined semantics eliminating any warts or ambiguities (forward vs. backward slashes etc.). It's part of Python 3.4+ standard library."	MIT			
python-iso8601	python-iso8601	"This module parses the most common forms of ISO 8601 date strings (e.g. 2007-01-14T20:34:22+00:00) into datetime objects."	MIT			
erlang-erts	erlang	"Functionality necessary to run the Erlang System itself."	ERPL			

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erlang-gs	erlang	"A Graphics System used to write platform independent user interfaces."	ERPL			
erlang-erl_interface	erlang	"Low level interface to C."	ERPL			
ruby-shadow	ruby-shadow	"Ruby bindings for shadow password access"	Public Domain			
python-pypcap	python-pypcap	"Simplified object-oriented Python extension module for libpcap - the current tcpdump.org version the legacy version shipping with some of the BSD operating systems and the WinPcap port for Windows."	BSD			
python-elasticsearch	python-elasticsearch	"Low level client for Elasticsearch. It's goal is to provide common ground for all Elasticsearch-related code in Python. The client's features include: - Translating basic Python data types to and from json - Configurable automatic discovery of cluster nodes - Persistent connections - Load balancing (with pluggable selection strategy) across all available nodes - Failed connection penalization (time based - failed connections won't be retried until a timeout is reached) - Thread safety - Pluggable architecture"	ASL 2.0			
rubygem-liquid	rubygem-liquid	"Liquid is a template engine which was written with very specific requirements: * It has to have beautiful and simple markup. Template engines which don't produce good looking markup are no fun to use. * It needs to be non evaling and secure. Liquid templates are made so that users can edit them. You don't want to run code on your server which your users wrote. * It has to be stateless. Compile and render steps have to be separate so that the expensive parsing and compiling can be done once and later on you can just render it passing in a hash with local variables and objects."	MIT and Ruby			
thrift-debuginfo	thrift	"This package provides debug information for package thrift. Debug information is useful when developing applications that use this package or when debugging this package."	ASL 2.0 and BSD and zlib			
python-heatclient	python-heatclient	"This is a client for the OpenStack Heat API. There's a Python API (the heatclient module) and a command-line script (heat). Each implements 100% of the OpenStack Heat API."	ASL 2.0			
ruby-shadow-debuginfo	ruby-shadow	"This package provides debug information for package ruby-shadow. Debug information is useful when developing applications that use this package or when debugging this package."	Public Domain			
rubygem-librarian-puppet	rubygem-librarian-puppet	"Simplify deployment of your Puppet infrastructure by automatically pulling in modules from the forge and git repositories with a single command."	MIT			
MySQL-python-debuginfo	MySQL-python	"This package provides debug information for package MySQL-python. Debug information is useful when developing applications that use this package or when debugging this package."	GPLv2+			
nutcracker-debuginfo	nutcracker	"This package provides debug information for package nutcracker. Debug information is useful when developing applications that use this package or when debugging this package."	Apache License 2.0			
puppet	puppet	"Puppet lets you centrally manage every important aspect of your system using a cross-platform specification language that manages all the separate elements normally aggregated in different files like users cron jobs and hosts along with obviously discrete elements like packages services and files."	ASL 2.0			
python-nova	openstack-nova	"OpenStack Compute (codename Nova) is open source software designed to provision and manage large networks of virtual machines creating a redundant and scalable cloud computing platform. This package contains the nova Python library."	ASL 2.0			
uwsgi-logger-pipe	uwsgi	"This package contains the logcrypto logger plugin for uWSGI"	GPLv2 with exceptions			
python3-flask-sqlalchemy	python-flask-sqlalchemy	"Flask-SQLAlchemy is an extension for Flask that adds support for SQLAlchemy to your application. It aims to simplify using SQLAlchemy with Flask by providing useful defaults and extra helpers that make it easier to accomplish common tasks. Python 3 version."	BSD			
openstack-neutron-macvtap-agent	openstack-neutron	"Neutron provides an API to dynamically request and configure virtual networks. This package contains the Neutron agent that implements macvtap attachments for libvirt qemu/kvm instances."	ASL 2.0			
uwsgi-transformation-gzip	uwsgi	"This package contains the transformation_gzip plugin for uWSGI"	GPLv2 with exceptions			
python-dateutil	python-dateutil	"The dateutil module provides powerful extensions to the standard datetime module available in Python 2.3+. This is the version for Python 2."	Python			
python-muranoclient	python-muranoclient	"Sytem package - python-muranoclient Python package - python-muranoclient"	Apache License			

Package name	Source	Package Description	Package License	Encryption types	Encryption Max Key Length	Comment
libradosstriper1	ceph	"Striping interface built on top of the rados library allowing to stripe bigger objects onto several standard rados objects using an interface very similar to the rados one."	LGPL-2.0			
openstack-heat-common	openstack-heat	"Components common to all OpenStack Heat services"	ASL 2.0			
python-oslo-cache-doc	python-oslo-cache	"Documentation for the OpenStack Oslo cache library."	ASL 2.0			
cluster-glue-debuginfo	cluster-glue	"This package provides debug information for package cluster-glue. Debug information is useful when developing applications that use this package or when debugging this package."	GPL-2.0+ and LGPL-2.1+			
erlang-ssl	erlang	"Secure Socket Layer support."	ERPL			
uwsgi-plugin-zergpool	uwsgi	"This package contains the zergpool plugin for uWSGI"	GPLv2 with exceptions			
python3-decorator	python-decorator	"The aim of the decorator module is to simplify the usage of decorators for the average programmer and to popularize decorators usage giving examples of useful decorators such as memoize tracing redirecting_stdout locked etc. The core of this module is a decorator factory called decorator."	BSD			
rubygem-tzinfo-doc	rubygem-tzinfo	"This package contains documentation for rubygem-tzinfo."	MIT			
erlang-ssh	erlang	"Secure Shell application with sftp and ssh support."	ERPL			
python-oslo-db	python-oslo-db	"The OpenStack Oslo database handling library. Provides database connectivity to the different backends and helper utils. * Documentation: <a href="http://docs.openstack.org/developer/oslo.db">http://docs.openstack.org/developer/oslo.db</a> * Source: <a href="http://git.openstack.org/cgit/openstack/oslo.db">http://git.openstack.org/cgit/openstack/oslo.db</a> * Bugs: <a href="http://bugs.launchpad.net/oslo">http://bugs.launchpad.net/oslo</a> "	ASL 2.0			
python-pygraphviz-debuginfo	python-pygraphviz	"This package provides debug information for package python-pygraphviz. Debug information is useful when developing applications that use this package or when debugging this package."	BSD			
uwsgi-plugin-jvm	uwsgi	"This package contains the JVM plugin for uWSGI"	GPLv2 with exceptions			
python-werkzeug	python-werkzeug	"Werkzeug ===== Werkzeug started as simple collection of various utilities for WSGI applications and has become one of the most advanced WSGI utility modules. It includes a powerful debugger full featured request and response objects HTTP utilities to handle entity tags cache control headers HTTP dates cookie handling file uploads a powerful URL routing system and a bunch of community contributed addon modules. Werkzeug is unicode aware and doesn't enforce a specific template engine database adapter or anything else. It doesn't even enforce a specific way of handling requests and leaves all that up to the developer. It's most useful for end user applications which should work on as many server environments as possible (such as blogs wikis bulletin boards etc.)."	BSD			
python-pyroute2	python-pyroute2	"PyRoute2 provides several levels of API to work with Netlink protocols such as Generic Netlink RTNL TaskStats NFNetlink IPQ."	GPLv2+			
python-bintrees-debuginfo	python-bintrees	"This package provides debug information for package python-bintrees. Debug information is useful when developing applications that use this package or when debugging this package."	MIT			
zeromq	zeromq	"The 0MQ lightweight messaging kernel is a library which extends the standard socket interfaces with features traditionally provided by specialized messaging middle-ware products. 0MQ sockets provide an abstraction of asynchronous message queues multiple messaging patterns message filtering (subscriptions) seamless access to multiple transport protocols and more. This package contains the ZeroMQ shared library."	LGPLv3+			
python-contextlib2	python-contextlib2	"contextlib2 is a backport of the standard library's contextlib module to earlier Python versions. It also serves as a real world proving ground for possible future enhancements to the standard library version."	Python			
rubygem-eventmachine-doc	rubygem-eventmachine	"This package contains documentation for rubygem-eventmachine."	GPLv2 or Ruby			
python-pillow-debuginfo	python-pillow	"This package provides debug information for package python-pillow. Debug information is useful when developing applications that use this package or when debugging this package."	MIT			
atop-debuginfo	atop	"This package provides debug information for package atop. Debug information is useful when developing applications that use this package or when debugging this package."	GPLv2+			



Package name	Source	Package Description	Package License	Encryption types	Encryption Max Key Length	Comment
python-renderspec	python-renderspec	"Tool to convert a .spec:j2 Jinja2 template to a rpm .spec file which is usable for different distributions and follow their policies and processes."	Apache-2.0			
libcephfs1-devel	ceph	"This package contains libraries and headers needed to develop programs that use Ceph's distributed file system."	LGPL-2.0			
openjpeg2-debuginfo	openjpeg2	"This package provides debug information for package openjpeg2. Debug information is useful when developing applications that use this package or when debugging this package."	BSD and MIT			
python-wrapt-debuginfo	python-wrapt	"This package provides debug information for package python-wrapt. Debug information is useful when developing applications that use this package or when debugging this package."	BSD			
wxGTK	wxGTK	"wxWidgets/GTK2 is the GTK2 port of the C++ cross-platform wxWidgets GUI library offering classes for all common GUI controls as well as a comprehensive set of helper classes for most common application tasks ranging from networking to HTML display and image manipulation."	wxWidgets			
rubygem-wmi-lite-doc	rubygem-wmi-lite	"Documentation for rubygem-wmi-lite"	Apache 2.0			
openstack-neutron-rpc-server	openstack-neutron	"Neutron provides an API to dynamically request and configure virtual networks. This package contains an alternative Neutron server that handles AMQP RPC workload only."	ASL 2.0			
yaml-cpp	yaml-cpp	"yaml-cpp is a YAML parser and emitter in C++ written around the YAML 1.2 spec."	MIT			
libunwind	libunwind	"Libunwind provides a C ABI to determine the call-chain of a program."	BSD			
fuel-ostf	fuel-ostf	"fuel-ostf-tests"	Apache			
python-docutils	python-docutils	"The Docutils project specifies a plaintext markup language reStructuredText which is easy to read and quick to write. The project includes a python library to parse rST files and transform them into other useful formats such as HTML XML and TeX as well as commandline tools that give the enduser access to this functionality. Currently the library supports parsing rST that is in standalone files and PEPs (Python Enhancement Proposals). Work is underway to parse rST from Python inline documentation modules and packages."	Public Domain and BSD and Python and GPLv3+			
openstack-nova-serialproxy	openstack-nova	"OpenStack Compute (codename Nova) is open source software designed to provision and manage large networks of virtual machines creating a redundant and scalable cloud computing platform. It gives you the software control panels and APIs required to orchestrate a cloud including running instances managing networks and controlling access through users and projects. OpenStack Compute strives to be both hardware and hypervisor agnostic currently supporting a variety of standard hardware configurations and seven major hypervisors. This package contains the Nova services providing the serial console access service to Virtual Machines."	ASL 2.0			
postgresql-server	postgresql	"PostgreSQL is an advanced Object-Relational database management system (DBMS). The postgresql-server package contains the programs needed to create and run a PostgreSQL server which will in turn allow you to create and maintain PostgreSQL databases."	PostgreSQL			
python-neutron-lbaas	openstack-neutron-lbaas	"This is a LBaaS service plugin for Openstack Neutron (Networking) service. This package contains the Neutron LBaaS Python library."	ASL 2.0			
openstack-keystone-doc	openstack-keystone	"Keystone is a Python implementation of the OpenStack ( <a href="http://www.openstack.org">http://www.openstack.org</a> ) identity service API. This package contains documentation for Keystone."	ASL 2.0			
pyparsing-doc	pyparsing	"The package contains documentation for pyparsing."	MIT			
erlang-syntax_tools	erlang	"A utility used to handle abstract Erlang syntax trees reading source files differently pretty-printing syntax trees."	ERPL			
dpkg	dpkg	"This package contains the tools (including dpkg-source) required to unpack build and upload Debian source packages. This package also contains the programs dpkg which used to handle the installation and removal of packages on a Debian system. This package also contains dselect an interface for managing the installation and removal of packages on the system. dpkg and dselect will certainly be non-functional on a rpm-based system because packages dependencies will likely be unmet."	GPLv2 and GPLv2+ and LGPLv2+ and Public Domain and BSD			

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rubygem-RedCloth-debuginfo	rubygem-RedCloth	"This package provides debug information for package rubygem-RedCloth. Debug information is useful when developing applications that use this package or when debugging this package."	MIT			
python-pecan	python-pecan	"A WSGI object-dispatching web framework designed to be lean and fast with few dependencies"	BSD			
erlang-eldap	erlang	"Erlang LDAP library."	ERPL			
conntrack-tools	conntrack-tools	"With conntrack-tools you can setup a High Availability cluster and synchronize conntrack state between multiple firewalls. The conntrack-tools package contains two programs: - conntrack: the command line interface to interact with the connection tracking system. - conntrackd: the connection tracking userspace daemon that can be used to deploy highly available GNU/Linux firewalls and collect statistics of the firewall use. conntrack is used to search list inspect and maintain the netfilter connection tracking subsystem of the Linux kernel. Using conntrack you can dump a list of all (or a filtered selection of) currently tracked connections delete connections from the state table and even add new ones. In addition you can also monitor connection tracking events e.g. show an event message (one line) per newly established connection."	GPLv2			
python-cliff	python-cliff	"cliff is a framework for building command line programs. It uses setuptools entry points to provide subcommands output formatters and other extensions. Documentation for cliff is hosted on readthedocs.org at <a href="http://readthedocs.org/docs/cliff/en/latest/">http://readthedocs.org/docs/cliff/en/latest/</a> "	ASL 2.0			
python-neutronclient-doc	python-neutronclient	"Documentation for the client library for interacting with Openstack Neutron's API."	ASL 2.0			
python-docker-py	python-docker-py	"An API client for docker written in Python"	ASL 2.0			
rubygem-rdoc	ruby	"RDoc produces HTML and command-line documentation for Ruby projects. RDoc includes the 'rdoc' and 'ri' tools for generating and displaying online documentation."	GPLv2 and Ruby and MIT			
python-keystoneauth1-doc	python-keystoneauth1	"Documentation for OpenStack Identity Authentication Library"	ASL 2.0			
rubygem-systemu	rubygem-systemu	"Universal capture of stdout and stderr and handling of child process pid."	BSD or Ruby			
python3-empy	python-empy	"EmPy is a system for embedding Python expressions and statements in template text; it takes an EmPy source file processes it and produces output."	LGPLv2+			
Xaw3d-devel	Xaw3d	"Xaw3d is an enhanced version of the MIT Athena widget set for the X Window System. Xaw3d adds a three-dimensional look to those applications with minimal or no source code changes. Xaw3d-devel includes the header files and libraries for developing programs that take full advantage of Xaw3d's features. You should install Xaw3d-devel if you are going to develop applications using the Xaw3d widget set. You'll also need to install the Xaw3d package."	MIT			
librasurecode-devel	liberasurecode	"The liberasurecode-devel package contains libraries and header files for developing applications that use liberasurecode."	BSD			
python-networkx	python-networkx	"NetworkX is a Python 2 package for the creation manipulation and study of the structure dynamics and functions of complex networks."	BSD			
python-mako	python-mako	"Mako is a template library written in Python. It provides a familiar non-XML syntax which compiles into Python modules for maximum performance. Mako's syntax and API borrows from the best ideas of many others including Django templates Cheetah Myghty and Genshi. Conceptually Mako is an embedded Python (i.e. Python Server Page) language which refines the familiar ideas of componentized layout and inheritance to produce one of the most straightforward and flexible models available while also maintaining close ties to Python calling and scoping semantics."	(MIT and Python) and (BSD or GPLv2)			
python3-tkinter	python3	"The Tkinter (Tk interface) program is an graphical user interface for the Python scripting language."	Python			
python34	python34	"Python 3 is a new version of the language that is incompatible with the 2.x line of releases. The language is mostly the same but many details especially how built-in objects like dictionaries and strings work have changed considerably and a lot of deprecated features have finally been removed."	Python			

Package name	Source	Package Description	Package License	Encryption types	Encryption Max Key Length	Comment
python3-setuptools	python-setuptools	"Setuptools is a collection of enhancements to the Python 3 distutils that allow you to more easily build and distribute Python 3 packages especially ones that have dependencies on other packages. This package also contains the runtime components of setuptools necessary to execute the software that requires pkg_resources.py."	Python or ZPLv2.0			
python-requests-mock	python-requests-mock	"requests-mock provides a simple way to do HTTP mocking at the python-requests layer."	ASL 2.0			
cloud-utils-growpart	cloud-utils	"This package provides the growpart script for growing a partition. It is primarily used in cloud images in conjunction with the dracut-modules-growroot package to grow the root partition on first boot."	GPLv3			
python-oslo-concurrency	python-oslo-concurrency	"oslo.concurrency library"	Apache-2.0			
python-websocket-client	python-websocket-client	"python-websocket-client module is WebSocket client for python. This provides the low level APIs for WebSocket. All APIs are the synchronous functions. python-websocket-client supports only hybi-13."	LGPLv2			
python-redis	python-redis	"This is a Python 2 interface to the Redis key-value store."	MIT			
lz4-debuginfo	lz4-r131	"This package provides debug information for package lz4. Debug information is useful when developing applications that use this package or when debugging this package."	GPLv2+ and BSD			
python-waitress	python-waitress	"Waitress is meant to be a production-quality pure-Python WSGI server with very acceptable performance. It has no dependencies except ones which live in the Python standard library. It runs on CPython on Unix and Windows under Python 2.6+ and Python 3.2. It is also known to run on PyPy 1.6.0 on UNIX. It supports HTTP/1.0 and HTTP/1.1. For more information see /usr/share/doc/python-waitress-0.8.9/docs or <a href="http://docs.pylonsproject.org/projects/waitress/en/latest/">http://docs.pylonsproject.org/projects/waitress/en/latest/</a> ."	ZPLv2.1			
python3-test	python3	"The test modules from the main python3 package. These are in a separate package to save space as they are almost never used in production. You might want to install the python3-test package if you're developing python 3 code that uses more than just unittest and/or test_support.py."	Python			
python-pyquery	python-pyquery	"python-pyquery allows you to make jQuery queries on XML documents. The API is as much as possible the similar to jQuery. python-pyquery uses lxml for fast XML and HTML manipulation."	BSD			
openstack-glance	openstack-glance	"OpenStack Image Service (code-named Glance) provides discovery registration and delivery services for virtual disk images. The Image Service API server provides a standard REST interface for querying information about virtual disk images stored in a variety of back-end stores including OpenStack Object Storage. Clients can register new virtual disk images with the Image Service query for information on publicly available disk images and use the Image Service's client library for streaming virtual disk images. This package contains the API and registry servers."	ASL 2.0			
erlang-asn1	erlang	"Provides support for Abstract Syntax Notation One."	ERPL			
uwsgi-plugin-nagios	uwsgi	"This package contains the nagios plugin for uWSGI"	GPLv2 with exceptions			
Cython-debuginfo	Cython	"This package provides debug information for package Cython. Debug information is useful when developing applications that use this package or when debugging this package."	Python			
ruby-irb	ruby	"The irb is acronym for Interactive Ruby. It evaluates ruby expression from the terminal."	(Ruby or BSD) and Public Domain			
python2-reno	python-reno	"Reno is a release notes manager for storing release notes in a git repository and then building documentation from them. Managing release notes for a complex project over a long period of time with many releases can be time consuming and error prone. Reno helps automate the hard parts."	ASL 2.0			
python2-zmq	python-zmq	"The 0MQ lightweight messaging kernel is a library which extends the standard socket interfaces with features traditionally provided by specialized messaging middle-ware products. 0MQ sockets provide an abstraction of asynchronous message queues multiple messaging patterns message filtering (subscriptions) seamless access to multiple transport protocols and more. This package contains the python bindings."	LGPLv3+ and ASL 2.0 and BSD			
erlang-odbc	erlang	"An interface to relational SQL-databases built on ODBC (Open Database Connectivity)."	ERPL			
python-rfc3986	python-rfc3986	"A Python implementation of RFC 3986 including validation and authority parsing."	MIT			

Package name	Source	Package Description	Package License	Encryption types	Encryption Max Key Length	Comment
python-eventlet	python-eventlet	"Eventlet is a networking library written in Python. It achieves high scalability by using non-blocking io while at the same time retaining high programmer usability by using coroutines to make the non-blocking io operations appear blocking at the source code level."	MIT			
ceph	ceph	"Ceph is a massively scalable open-source distributed storage system that runs on commodity hardware and delivers object block and file system storage."	GPL-2.0			
pysendfile	pysendfile	"sendfile(2) is a system call which provides a "zero-copy" way of copying data from one file descriptor to another (a socket). The phrase "zero-copy" refers to the fact that all of the copying of data between the two descriptors is done entirely by the kernel with no copying of data into user-space buffers. This is particularly useful when sending a file over a socket (e.g. FTP)."	MIT			
fuel-release	fuel	"This packages provides /etc/fuel_release file and Yum configuration for Fuel online repositories."	GPLv2			
libnetfilter_cttimeout	libnetfilter_cttimeout	"This infrastructure allows you to define fine-grain timeout policies per flow. Basically from user-space you can create timeout policy objects via nfct_timeout_alloc() set the policy attributes via nfct_timeout_*_attr_set() and then build the ctnetlink message to communicate this new timeout policy to the kernel."	GPLv2+			
rubygem-test_declarative-doc	rubygem-test_declarative	"Documentation for rubygem-test_declarative"	MIT			
python-msgpack	python-msgpack	"MessagePack is a binary-based efficient data interchange format that is focused on high performance. It is like JSON but very fast and small. This is a Python (de)serializer for MessagePack."	ASL 2.0			
python-rtslib-doc	python-rtslib	"API documentation for rtslib to configure the generic Linux SCSI multiprotocol kernel target."	ASL 2.0			
python-neutron-lbaas-tests	openstack-neutron-lbaas	"This is a LBaaS service plugin for Openstack Neutron (Networking) service. This package contains Neutron LBaaS test files."	ASL 2.0			
rubygem-redcarpet	rubygem-redcarpet	"A fast safe and extensible Markdown to (X)HTML parser"	ISC			
pyserial	pyserial	"This module encapsulates the access for the serial port. It provides backends for standard Python running on Windows Linux BSD (possibly any POSIX compilant system) and Jython. The module named "serial" automatically selects the appropriate backend."	Python			
python-BeautifulSoup	python-BeautifulSoup	"Beautiful Soup is a Python HTML/XML parser designed for quick turnaround projects like screen-scraping. Three features make it powerful: BeautifulSoup won't choke if you give it bad markup. BeautifulSoup provides a few simple methods and Pythonic idioms for navigating searching and modifying a parse tree. BeautifulSoup automatically converts incoming documents to Unicode and outgoing documents to UTF-8. BeautifulSoup parses anything you give it. Valuable data that was once locked up in poorly-designed websites is now within your reach. Projects that would have taken hours take only minutes with BeautifulSoup."	BSD			
python3-itsdangerous	python-itsdangerous	"Itsdangerous is a Python 3 library for passing data through untrusted environments (for example HTTP cookies) while ensuring the data is not tampered with. Internally itsdangerous uses HMAC and SHA1 for signing by default and bases the implementation on the Django signing module. It also however supports JSON Web Signatures (JWS)."	BSD			
python-netifaces-debuginfo	python-netifaces	"This package provides debug information for package python-netifaces. Debug information is useful when developing applications that use this package or when debugging this package."	MIT			
python-pypcap-debuginfo	python-pypcap	"This package provides debug information for package python-pypcap. Debug information is useful when developing applications that use this package or when debugging this package."	BSD			
python-glance-store	python-glance-store	"OpenStack Image Service Store Library."	Apache 2.0			
web-assets-devel	web-assets	"RPM macros for Web Assets packaging."	MIT			
babel	babel	"Babel is composed of two major parts: * tools to build and work with gettext message catalogs * a Python interface to the CLDR (Common Locale Data Repository) providing access to various locale display names localized number and date formatting etc."	BSD			

Package name	Source	Package Description	Package License	Encryption types	Encryption Max Key Length	Comment
python-automaton	python-automaton	"Friendly state machines for python."	ASL 2.0			
python3-pygraphviz	python-pygraphviz	"PyGraphviz is a Python interface to the Graphviz graph layout and visualization package. With PyGraphviz you can create edit read write and draw graphs using Python to access the Graphviz graph data structure and layout algorithms. PyGraphviz is independent from NetworkX but provides a similar programming interface. This package contains the version for Python 3."	BSD			
network-checker	network-checker	"This is a network tool that helps to verify networks connectivity between hosts in network."	GPLv2			
python-netifaces	python-netifaces	"This package provides a cross platform API for getting address information from network interfaces."	MIT			
uwsgi-plugin-cplusplus	uwsgi	"This package contains the cplusplus plugin for uWSGI"	GPLv2 with exceptions			
python3-py	python-py	"The py lib is a Python development support library featuring the following tools and modules: * py.path: uniform local and svn path objects * py.apipkg: explicit API control and lazy-importing * py.iniconfig: easy parsing of .ini files * py.code: dynamic code generation and introspection * py.path: uniform local and svn path objects"	MIT and Public Domain			
python3-inotify	python-inotify	"This is a Python 3 module for watching filesystems changes. pyinotify can be used for various kind of fs monitoring. pyinotify relies on a recent Linux Kernel feature (merged in kernel 2.6.13) called inotify. inotify is an event-driven notifier its notifications are exported from kernel space to user space. This is the Python 3 build of pyinotify"	MIT			
crmsh	crmsh	"The crm shell is a command-line interface for High-Availability cluster management on GNU/Linux systems. It simplifies the configuration management and troubleshooting of Pacemaker-based clusters by providing a powerful and intuitive set of features. Authors: Dejan Muhamedagic <dejan@suse.de> and many others"	GPL-2.0+			
python-inotify-examples	python-inotify	"This package includes some examples usage of the Python inotify module."	MIT			
python-gevent	python-gevent	"gevent is a coroutine-based Python networking library that uses greenlet to provide a high-level synchronous API on top of libevent event loop. Features include: * convenient API around greenlets * familiar synchronization primitives (gevent.event gevent.queue) * socket module that cooperates * WSGI server on top of libevent-http * DNS requests done through libevent-dns * monkey patching utility to get pure Python modules to cooperate"	MIT			
emacs-erlang-el	erlang	"Erlang mode for GNU Emacs (source lisp files)."	ERPL			
python-oslo-i18n-doc	python-oslo-i18n	"Documentation for the oslo.i18n library."	ASL 2.0			
python2-debtcollector	python-debtcollector	"It is a collection of functions/decorators which is used to signal a user when * a method (static method class method or regular instance method) or a class or function is going to be removed at some point in the future. * to move a instance method/property/class from an existing one to a new one * a keyword is renamed * further customizing the emitted messages"	ASL 2.0			
python-crypto-debuginfo	python-crypto	"This package provides debug information for package python-crypto. Debug information is useful when developing applications that use this package or when debugging this package."	Public Domain and Python			
rubygem-popen4	rubygem-popen4	"POpen4 provides the Rubyist a single API across platforms for executing a command in a child process with handles on stdout stderr stdin streams as well as access to the process ID and exit status. It does very little other than to provide an easy way to use either Ara Howard?s Open4 library or the win32-popen3 library by Park Heesob and Daniel Berger depending on your platform and without having to code around the slight differences in their APIs."	GPLv2 or Ruby			
openstack-nova	openstack-nova	"OpenStack Compute (codename Nova) is open source software designed to provision and manage large networks of virtual machines creating a redundant and scalable cloud computing platform. It gives you the software control panels and APIs required to orchestrate a cloud including running instances managing networks and controlling access through users and projects. OpenStack Compute strives to be both hardware and hypervisor agnostic currently supporting a variety of standard hardware configurations and seven major hypervisors."	ASL 2.0			
erlang-cosFileTransfer	erlang	"Orber OMG File Transfer Service."	ERPL			

Package name	Source	Package Description	Package License	Encryption types	Encryption Max Key Length	Comment
python34-debug	python34	"python34-debug provides a version of the Python 3 runtime with numerous debugging features enabled aimed at advanced Python users such as developers of Python extension modules. This version uses more memory and will be slower than the regular Python 3 build but is useful for tracking down reference-counting issues and other bugs. The bytecodes are unchanged so that .pyc files are compatible between the two versions of Python 3 but the debugging features mean that C/C++ extension modules are ABI-incompatible with those built for the standard runtime. It shares installation directories with the standard Python 3 runtime so that .py and .pyc files can be shared. All compiled extension modules gain a "_d" suffix ("foo_d.so" rather than "foo.so") so that each Python 3 implementation can load its own extensions."	Python			
python3-cmd2	python-cmd2	"Enhancements for standard library's cmd module. Drop-in replacement adds several features for command-prompt tools: * Searchable command history (commands: "hi" "li" "run") * Load commands from file save to file edit commands in file * Multi-line commands * Case-insensitive commands * Special-character shortcut commands (beyond cmd's "@" and "!") * Settable environment parameters * Parsing commands with flags * > (filename) >> (filename) redirect output to file * < (filename) gets input from file * bare > >> < redirect to/from paste buffer * accepts abbreviated commands when unambiguous * `py` enters interactive Python console * test apps against sample session transcript (see example/example.py) Usable without modification anywhere cmd is used; simply import cmd2.Cmd in place of cmd.Cmd. See docs at <a href="http://packages.python.org/cmd2/">http://packages.python.org/cmd2/</a> "	MIT			
perl-thrift	thrift	"The perl-thrift package contains Perl bindings for thrift."	ASL 2.0 and BSD and zlib			
python3-Cython	Cython	"This is a development version of Pyrex a language for writing Python extension modules. For more info see: Doc/About.html for a description of the language INSTALL.txt for installation instructions USAGE.txt for usage instructions Demos for usage examples"	Python			
ceph-debuginfo	ceph	"This package provides debug information for package ceph. Debug information is useful when developing applications that use this package or when debugging this package."	GPL-2.0			
python-congressclient	python-congressclient	"Sytem package - python-congressclient Python package - python-congressclient"	Apache			
python-oslo-context	python-oslo-context	"The Oslo context library has helpers to maintain useful information about a request context. The request context is usually populated in the WSGI pipeline and used by various modules such as logging."	ASL 2.0			
python-ceilometerclient	python-ceilometerclient	"This is a client library for Ceilometer built on the Ceilometer API. It provides a Python API (the ceilometerclient module) and a command-line tool (ceilometer)."	ASL 2.0			
erlang-hipe	erlang	"High Performance Erlang."	ERPL			
uwsgi-logger-syslog	uwsgi	"This package contains the syslog logger plugin for uWSGI"	GPLv2 with exceptions			
rubygem-thread_safe	rubygem-thread_safe	"A collection of data structures and utilities to make thread-safe programming in Ruby easier."	ASL 2.0 and Public Domain			
python-characteristic	python-characteristic	"Say 'yes' to types but 'no' to typing! characteristic is a Python package with class decorators that ease the chores of implementing the most common attribute-related object protocols. You just specify the attributes to work with and ``characteristic`` gives you: - a nice human-readable ``__repr__`` - a complete set of comparison methods - and a kwargs-based initializer (that cooperates with your existing one) *without* writing dull boilerplate code again and again. So put down that type-less data structures and welcome some class into your life!"	MIT			
python-restkit	python-restkit	"Restkit is a full HTTP client using pure socket calls and its own HTTP parser. It's not based on httplib or urllib2."	MIT			
python-zake	python-zake	"A python package that works to provide a nice set of testing utilities for the kazoo library. It includes the following functionality: * Storage access (for viewing what was saved/created). * Kazoo mostly compatible client API. * Sync/transaction/create/get/delete... commands. * Listener support."	ASL 2.0			
python-novaclient-doc	python-novaclient	"This is a client for the OpenStack Nova API. There's a Python API (the novaclient module) and a command-line script (nova). Each implements 100% of the OpenStack Nova API. This package contains auto-generated documentation."	ASL 2.0			

Package name	Source	Package Description	Package License	Encryption types	Encryption Max Key Length	Comment
python-oslo-utils-doc	python-oslo-utils	"Documentation for the Oslo database handling library."	ASL 2.0			
rubygem-mixlib-log	rubygem-mixlib-log	"Ruby gem mixlib-log"	Distributable			
openstack-nova-conductor	openstack-nova	"OpenStack Compute (codename Nova) is open source software designed to provision and manage large networks of virtual machines creating a redundant and scalable cloud computing platform. It gives you the software control panels and APIs required to orchestrate a cloud including running instances managing networks and controlling access through users and projects. OpenStack Compute strives to be both hardware and hypervisor agnostic currently supporting a variety of standard hardware configurations and seven major hypervisors. This package contains the Nova services providing database access for the compute service"	ASL 2.0			
python-stevedore	python-stevedore	"Manage dynamic plugins for Python applications"	ASL 2.0			
rubygem-bunny-doc	rubygem-bunny	"Documentation for rubygem-bunny"	MIT			
python-sqlalchemy	python-sqlalchemy	"SQLAlchemy is an Object Relational Mappper (ORM) that provides a flexible high-level interface to SQL databases. Database and domain concepts are decoupled allowing both sides maximum flexibility and power. SQLAlchemy provides a powerful mapping layer that can work as automatically or as manually as you choose determining relationships based on foreign keys or letting you define the join conditions explicitly to bridge the gap between database and domain. This package includes the python 2 version of the module."	MIT			
libvirt-python-debuginfo	libvirt-python	"This package provides debug information for package libvirt-python. Debug information is useful when developing applications that use this package or when debugging this package."	LGPLv2+			
python-psutil	python-psutil	"psutil is a module providing an interface for retrieving information on all running processes and system utilization (CPU memory disks network users) in a portable way by using Python implementing many functionalities offered by command line tools such as: ps top df kill free lsof free netstat ifconfig nice ionice iostat iotop uptime pidof tty who taskset pmap."	BSD			
openstack-swift-container	openstack-swift	"OpenStack Object Storage (Swift) aggregates commodity servers to work together in clusters for reliable redundant and large-scale storage of static objects. This package contains the openstack-swift container server."	ASL 2.0			
python-aodhclient	python-aodhclient	""	ASL 2.0			
euca2ools	euca2ools	"Euca2ools are command line tools used to interact with Eucalyptus a service overlay designed to be interface-compatible with Amazon Web Services (AWS) as well as AWS itself."	BSD			
openstack-nova-common	openstack-nova	"OpenStack Compute (codename Nova) is open source software designed to provision and manage large networks of virtual machines creating a redundant and scalable cloud computing platform. It gives you the software control panels and APIs required to orchestrate a cloud including running instances managing networks and controlling access through users and projects. OpenStack Compute strives to be both hardware and hypervisor agnostic currently supporting a variety of standard hardware configurations and seven major hypervisors. This package contains scripts config and dependencies shared between all the OpenStack nova services."	ASL 2.0			
rubygem-liquid-doc	rubygem-liquid	"Documentation for rubygem-liquid"	MIT and Ruby			
erlang-webtool	erlang	"A tool that simplifying the use of web based Erlang tools."	ERPL			
pytz	pytz	"pytz brings the Olson tz database into Python. This library allows accurate and cross platform timezone calculations using Python 2.3 or higher. It also solves the issue of ambiguous times at the end of daylight savings which you can read more about in the Python Library Reference (datetime.tzinfo). Almost all (over 540) of the Olson timezones are supported."	MIT			
rubygem-json	ruby	"This is a implementation of the JSON specification according to RFC 4627. You can think of it as a low fat alternative to XML if you want to store data to disk or transmit it over a network rather than use a verbose markup language."	Ruby or GPLv2			
postgresql-contrib	postgresql	"The postgresql-contrib package contains various extension modules that are included in the PostgreSQL distribution."	PostgreSQL			

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python-ceilometermiddleware	python-ceilometermiddleware	"Middleware for services to use to generate events and meters for OpenStack Telemetry (Ceilometer) service."	Apache License			
os-testr	os-testr	"A testr wrapper to provide functionality for OpenStack projects"	ASL 2.0			
python-manilaclient-doc	python-manilaclient	"Documentation for the client library for interacting with Openstack Share API."	ASL 2.0			
rabbitmq-server	rabbitmq-server	"RabbitMQ is an open source multi-protocol messaging broker."	MPLv1.1 and MIT and ASL 2.0 and BSD	sha	512	
rabbitmq-server	rabbitmq-server	"RabbitMQ is an open source multi-protocol messaging broker."	MPLv1.1 and MIT and ASL 2.0 and BSD	rsa	unlimited	typically <=8192
sshpas	sshpas	"Tool for non-interactively performing password authentication with so called "interactive keyboard password authentication" of SSH. Most users should use more secure public key authentication of SSH instead."	GPLv2			
fakeroot	fakeroot	"fakeroot runs a command in an environment wherein it appears to have root privileges for file manipulation. fakeroot works by replacing the file manipulation library functions (chmod(2) stat(2) etc.) by ones that simulate the effect the real library functions would have had had the user really been root."	GPL+			
erlang-sasl	erlang	"The System Architecture Support Libraries is a set of tools for release upgrades and alarm handling etc."	ERPL			
python2-ujson	python-ujson	"UltraJSON is an ultra fast JSON encoder and decoder written in pure C with bindings for Python"	BSD			
python3-sphinx	python-sphinx	"Sphinx is a tool that makes it easy to create intelligent and beautiful documentation for Python projects (or other documents consisting of multiple reStructuredText sources) written by Georg Brandl. It was originally created to translate the new Python documentation but has now been cleaned up in the hope that it will be useful to many other projects. Sphinx uses reStructuredText as its markup language and many of its strengths come from the power and straightforwardness of reStructuredText and its parsing and translating suite the Docutils. Although it is still under constant development the following features are already present work fine and can be seen "in action" in the Python docs: * Output formats: HTML (including Windows HTML Help) and LaTeX for printable PDF versions * Extensive cross-references: semantic markup and automatic links for functions classes glossary terms and similar pieces of information * Hierarchical structure: easy definition of a document tree with automatic links to siblings parents and children * Automatic indices: general index as well as a module index * Code handling: automatic highlighting using the Pygments highlighter * Various extensions are available e.g. for automatic testing of snippets and inclusion of appropriately formatted docstrings."	BSD and Public Domain and Python and (MIT or GPLv2)			
python-memcached	python-memcached	"This software is a 100% Python interface to the memcached memory cache daemon. It is the client side software which allows storing values in one or more possibly remote memcached servers. Search google for memcached for more information."	Python			
python-pep8	python-pep8	"pep8 is a tool to check your Python code against some of the style conventions in PEP 8. It has a plugin architecture making new checks easy and its output is parseable making it easy to jump to an error location in your editor."	MIT			
uwsgi-plugin-ldap	uwsgi	"This package contains the ldap plugin for uWSGI"	GPLv2 with exceptions			
python-oslo-versionedobjects-doc	python-oslo-versionedobjects	"Documentation for the oslo.versionedobjects library."	ASL 2.0			
python-glance-tests	openstack-glance	"OpenStack Image Service (code-named Glance) provides discovery registration and delivery services for virtual disk images. This package contains the Glance test files."	ASL 2.0			
uwsgi-plugin-dummy	uwsgi	"This package contains the dummy plugin for uWSGI"	GPLv2 with exceptions			
rubygem-pathspect	rubygem-pathspect	"Use to match path patterns such as gitignore."	ASL 2.0			
openstack-swift-account	openstack-swift	"OpenStack Object Storage (Swift) aggregates commodity servers to work together in clusters for reliable redundant and large-scale storage of static objects. This package contains the openstack-swift account server."	ASL 2.0			
python2-aniso8601	python-aniso8601	"Python 2 library for parsing date strings in ISO 8601 format into datetime format."	GPLv3+			



Package name	Source	Package Description	Package License	Encryption types	Encryption Max Key Length	Comment
python-keystoneclient-doc	python-keystoneclient	"Documentation for the client library for interacting with Openstack Identity API."	ASL 2.0			
python-reno-doc	python-reno	"Documentation for Reno"	ASL 2.0			
libstemmer-debuginfo	libstemmer	"This package provides debug information for package libstemmer. Debug information is useful when developing applications that use this package or when debugging this package."	BSD			
nginx-debuginfo	nginx	"This package provides debug information for package nginx. Debug information is useful when developing applications that use this package or when debugging this package."	BSD			
python-oslo-versionedobjects	python-oslo-versionedobjects	"The Oslo project intends to produce a python library containing infrastructure code shared by OpenStack projects. The APIs provided by the project should be high quality stable consistent and generally useful. Oslo versionedobjects library deals with DB schema being at different versions than the code expects allowing services to be operated safely during upgrades."	ASL 2.0			
bootswatch-common	python-XStatic-bootswatch	"Common bootswatch static content (CSS and SCSS)"	MIT			
python-pyghmi	python-pyghmi	"This is a pure python implementation of the IPMI protocol."	ASL 2.0			
uwsgi-transformation-toupper	uwsgi	"This package contains the transformation_toupper plugin for uWSGI"	GPLv2 with exceptions			
python3-bson	python-pymongo	"BSON is a binary-encoded serialization of JSON-like documents. BSON is designed to be lightweight traversable and efficient. BSON like JSON supports the embedding of objects and arrays within other objects and arrays. This package contains the python3 version of this module."	ASL 2.0 and MIT			
python-nose	python-nose	"nose extends the test loading and running features of unittest making it easier to write find and run tests. By default nose will run tests in files or directories under the current working directory whose names include "test" or "Test" at a word boundary (like "test_this" or "functional_test" or "TestClass" but not "libtest"). Test output is similar to that of unittest but also includes captured stdout output from failing tests for easy print-style debugging. These features and many more are customizable through the use of plugins. Plugins included with nose provide support for doctest code coverage and profiling flexible attribute-based test selection output capture and more."	LGPLv2+ and Public Domain			
python2-debtcollector-doc	python-debtcollector	"Documentation for the debtcollector module"	ASL 2.0			
openstack-ceilometer-common	openstack-ceilometer	"OpenStack ceilometer provides services to measure and collect metrics from OpenStack components. This package contains components common to all OpenStack ceilometer services."	ASL 2.0			
pyparsing	pyparsing	"pyparsing is a module that can be used to easily and directly configure syntax definitions for any number of text parsing applications."	MIT			
python-funcsigs	python-funcsigs	"funcsigs is a backport of the PEP 362 function signature features from Python 3.3's inspect module. The backport is compatible with Python 2.6 2.7 as well as 3.2 and up."	Apache-2.0			
fakeroot-libs	fakeroot	"This package contains the libraries required by fakeroot."	GPL+			
python-ryu	python-ryu	"Ryu provides software components with well defined API that make it easy for developers to create new network management and control applications."	Apache-2.0			
ceph-libs-compatible	ceph	"This is a meta package that pulls in librados2 librbd1 and libcephfs1. It is included for backwards compatibility with distributions that depend on the former ceph-libs package which is now split up into these three subpackages. Packages still depending on ceph-libs should be fixed to depend on librados2 librbd1 or libcephfs1 instead."	LGPL-2.0			
uwsgi-router-uwsgi	uwsgi	"This package contains the uwsgi router plugin for uWSGI"	GPLv2 with exceptions			
uwsgi-transformation-template	uwsgi	"This package contains the transformation_template plugin for uWSGI"	GPLv2 with exceptions			
numpy-debuginfo	numpy	"This package provides debug information for package numpy. Debug information is useful when developing applications that use this package or when debugging this package."	BSD and Python			
openstack-heat-docker	openstack-heat	"OpenStack HEAT docker resource for managing docker instances on OpenStack"	ASL 2.0			

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libunwind-debuginfo	libunwind	"This package provides debug information for package libunwind. Debug information is useful when developing applications that use this package or when debugging this package."	BSD			
openstack-sahara-doc	openstack-sahara	"Sahara project aims to provide users with simple means to provision a Hadoop cluster at OpenStack by specifying several parameters like Hadoop version cluster topology nodes hardware details and a few more. This package contains documentation files for Sahara"	ASL 2.0			
python-editor	python-editor	"An python module which provides a convenient example."	ASL 2.0			
dpkg-debuginfo	dpkg	"This package provides debug information for package dpkg. Debug information is useful when developing applications that use this package or when debugging this package."	GPLv2 and GPLv2+ and LGPLv2+ and Public Domain and BSD			
fuel	fuel	"Fuel for OpenStack is a lifecycle management utility for managing OpenStack."	Apache			
python-designateclient	python-designateclient	"OpenStack DNS as a Service - Client"	Apache License			
fuel-migrate	fuel-library9.0	"Script for migrate Fuel master into vm"	Apache 2.0			
rubygem-ohai	rubygem-ohai	"Ohai detects data about your operating system and prints out a JSON data blob. It can be used standalone but it's primary purpose is to provide node data to Chef."	ASL 2.0			
python3-bintrees	python-bintrees	"This Python 3 package provides Binary- RedBlack- and AVL-Trees written in Python and Cython/C. This Classes are much slower than the built-in *dict* class but all iterators/generators yielding data in sorted key order. Trees can be uses as drop in replacement for *dicts* in most cases."	MIT			
python-sphinx	python-sphinx	"Sphinx is a tool that makes it easy to create intelligent and beautiful documentation for Python projects (or other documents consisting of multiple reStructuredText sources) written by Georg Brandl. It was originally created to translate the new Python documentation but has now been cleaned up in the hope that it will be useful to many other projects. Sphinx uses reStructuredText as its markup language and many of its strengths come from the power and straightforwardness of reStructuredText and its parsing and translating suite the Docutils. Although it is still under constant development the following features are already present work fine and can be seen "in action" in the Python docs: * Output formats: HTML (including Windows HTML Help) and LaTeX for printable PDF versions * Extensive cross-references: semantic markup and automatic links for functions classes glossary terms and similar pieces of information * Hierarchical structure: easy definition of a document tree with automatic links to siblings parents and children * Automatic indices: general index as well as a module index * Code handling: automatic highlighting using the Pygments highlighter * Various extensions are available e.g. for automatic testing of snippets and inclusion of appropriately formatted docstrings."	BSD and Public Domain and Python and (MIT or GPLv2)			
python-coverage	python-coverage	"Coverage.py is a Python module that measures code coverage during Python execution. It uses the code analysis tools and tracing hooks provided in the Python standard library to determine which lines are executable and which have been executed."	BSD and (MIT or GPLv2)			
crmsh-test	crmsh	"The crm shell is a command-line interface for High-Availability cluster management on GNU/Linux systems. It simplifies the configuration management and troubleshooting of Pacemaker-based clusters by providing a powerful and intuitive set of features. Authors: Dejan Muhamedagic <dejan@suse.de> and many others"	GPL-2.0+			
python-pylibmc	python-pylibmc	"pylibmc is a client in Python for memcached. It is a wrapper around TangentOrg?s libmemcached library. The interface is intentionally made as close to python-memcached as possible so that applications can drop-in replace it."	BSD			
uwsgi-stats-pusher-statsd	uwsgi	"This package contains the stats_pusher_statsd plugin for uWSGI"	GPLv2 with exceptions			
monit-debuginfo	monit	"This package provides debug information for package monit. Debug information is useful when developing applications that use this package or when debugging this package."	AGPLv3			
python3-six	python-six	"python-six provides simple utilities for wrapping over differences between Python 2 and Python 3. This is the Python 3 build of the module."	MIT			
python-traceback2	python-traceback2	"A backport of traceback to older supported Pythons."	Python			

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python-falcon-debuginfo	python-falcon	"This package provides debug information for package python-falcon. Debug information is useful when developing applications that use this package or when debugging this package."	ASL 2.0			
python-tablib	python-tablib	"Tablib is a format-agnostic tabular dataset library written in Python. Output formats supported: - Excel (Sets + Books) - JSON (Sets + Books) - YAML (Sets + Books) - HTML (Sets) - TSV (Sets) - CSV (Sets)"	MIT			
python-greenlet-debuginfo	python-greenlet	"This package provides debug information for package python-greenlet. Debug information is useful when developing applications that use this package or when debugging this package."	MIT			
python3-pymongo	python-pymongo	"The Python driver for MongoDB. This package contains the python3 version of this module."	ASL 2.0 and MIT			
uwsgi-plugin-pam	uwsgi	"This package contains the PAM plugin for uWSGI"	GPLv2 with exceptions			
python-mccabe	python-mccabe	"Ned's script to check McCabe complexity. This module provides a plugin for ``flake8`` the Python code checker."	MIT			
rubygem-mixlib-cli-doc	rubygem-mixlib-cli	"This package contains documentation for rubygem-mixlib-cli."	ASL 2.0			
uwsgi-plugin-python	uwsgi	"This package contains the python plugin for uWSGI"	GPLv2 with exceptions			
openstack-nova-cert	openstack-nova	"OpenStack Compute (codename Nova) is open source software designed to provision and manage large networks of virtual machines creating a redundant and scalable cloud computing platform. It gives you the software control panels and APIs required to orchestrate a cloud including running instances managing networks and controlling access through users and projects. OpenStack Compute strives to be both hardware and hypervisor agnostic currently supporting a variety of standard hardware configurations and seven major hypervisors. This package contains the Nova service for managing certificates."	ASL 2.0			
libstemmer-devel	libstemmer	"This package contains development files of libstemmer. Snowball stemming algorithms for use in Information Retrieval Snowball provides access to efficient algorithms for calculating a "stemmed" form of a word. This is a form with most of the common morphological endings removed; hopefully representing a common linguistic base form. This is most useful in building search engines and information retrieval software; for example a search with stemming enabled should be able to find a document containing "cycling" given the query "cycles". Snowball provides algorithms for several (mainly European) languages. It also provides access to the classic Porter stemming algorithm for English: although this has been superseded by an improved algorithm the original algorithm may be of interest to information retrieval researchers wishing to reproduce results of earlier experiments."	BSD			
erlang-edoc	erlang	"A utility used to generate documentation out of tags in source files."	ERPL			
python-flask	python-flask	"Flask is called a ?micro-framework? because the idea to keep the core simple but extensible. There is no database abstraction layer no form validation or anything else where different libraries already exist that can handle that. However Flask knows the concept of extensions that can add this functionality into your application as if it was implemented in Flask itself. There are currently extensions for object relational mappers form validation upload handling various open authentication technologies and more."	BSD			
python-pymongo-gridfs	python-pymongo	"GridFS is a storage specification for large objects in MongoDB."	ASL 2.0 and MIT			
rubygem-xpath	rubygem-xpath	"XPath is a Ruby DSL for generating XPath expressions"	MIT			
connttrack-tools-debuginfo	connttrack-tools	"This package provides debug information for package connttrack-tools. Debug information is useful when developing applications that use this package or when debugging this package."	GPLv2			
python-idna	python-idna	"A library to support the Internationalised Domain Names in Applications (IDNA) protocol as specified in RFC 5891 < <a href="http://tools.ietf.org/html/rfc5891">http://tools.ietf.org/html/rfc5891</a> >. This version of the protocol is often referred to as "IDNA2008" and can produce different results from the earlier standard from 2003. The library is also intended to act as a suitable drop-in replacement for the "encodings.idna" module that comes with the Python standard library but currently only supports the older 2003 specification."	BSD and Python and Unicode			
rubygem-activesupport	rubygem-activesupport	"Utility library which carries commonly used classes and goodies from the Rails framework"	MIT			

Package name	Source	Package Description	Package License	Encryption types	Encryption Max Key Length	Comment
python3-blinker	python-blinker	"Blinker provides a fast dispatching system that allows any number of interested parties to subscribe to events or "signals"."	MIT			
rubygem-net-ssh-gateway-doc	rubygem-net-ssh-gateway	"Documentation for rubygem-net-ssh-gateway"	MIT			
rubygem-eventmachine-debuginfo	rubygem-eventmachine	"This package provides debug information for package rubygem-eventmachine. Debug information is useful when developing applications that use this package or when debugging this package."	GPLv2 or Ruby			
uwsgi-plugin-xattr	uwsgi	"This package contains the xattr plugin for uWSGI"	GPLv2 with exceptions			
dselect	dpkg	"dselect is a high-level interface for the installation/removal of debs ."	GPLv2 and GPLv2+ and LGPLv2+ and Public Domain and BSD			
python-imgcreate	livecd-tools	"Python modules that can be used for building images for things like live image or appliances."	GPLv2			
python-zope-event	python-zope-event	"The zope.event package provides a simple event system. It provides an event publishing system and a very simple event-dispatching system on which more sophisticated event dispatching systems can be built. (For example a type-based event dispatching system that builds on zope.event can be found in zope.component.) This package contains the version for Python 2."	ZPLv2.1			
rubygem-ipaddress	rubygem-ipaddress	"IPAddress is a Ruby library designed to make manipulation of IPv4 and IPv6 addresses both powerful and simple. It maintains a layer of compatibility with Ruby's own IPAddr while addressing many of its issues."	MIT			
erlang-jinterface	erlang	"Low level interface to Java."	ERPL			
python2-greenlet	python-greenlet	"The greenlet package is a spin-off of Stackless a version of CPython that supports micro-threads called "tasklets". Tasklets run pseudo-concurrently (typically in a single or a few OS-level threads) and are synchronized with data exchanges on "channels". This is the Python 2 version of greenlet."	MIT			
openstack-cinder-doc	openstack-cinder	"OpenStack Volume (codename Cinder) provides services to manage and access block storage volumes for use by Virtual Machine instances. This package contains documentation files for cinder."	ASL 2.0			
python3-oauthlib	python-oauthlib	"OAuthLib is a generic utility which implements the logic of OAuth without assuming a specific HTTP request object or web framework. Use it to graft OAuth client support onto your favorite HTTP library or provider support onto your favourite web framework. If you're a maintainer of such a library write a thin veneer on top of OAuthLib and get OAuth support for very little effort."	BSD			
python-pygraphviz	python-pygraphviz	"PyGraphviz is a Python interface to the Graphviz graph layout and visualization package. With PyGraphviz you can create edit read write and draw graphs using Python to access the Graphviz graph data structure and layout algorithms. PyGraphviz is independent from NetworkX but provides a similar programming interface."	BSD			
python-influxdb	python-influxdb	"A python client to interact with InfluxDB"	MIT			
python-imaging-devel	python-imaging	"Development files for python-imaging."	MIT			
python-cffi-debuginfo	python-cffi	"This package provides debug information for package python-cffi. Debug information is useful when developing applications that use this package or when debugging this package."	MIT			
python-werkzeug-doc	python-werkzeug	"Documentation and examples for python-werkzeug."	BSD			
MySQL-python	MySQL-python	"Python interface to MySQL MySQLdb is an interface to the popular MySQL database server for Python. The design goals are: - Compliance with Python database API version 2.0 - Thread-safety - Thread-friendliness (threads will not block each other) - Compatibility with MySQL 3.23 and up This module should be mostly compatible with an older interface written by Joe Skinner and others. However the older version is a) not thread-friendly b) written for MySQL 3.21 c) apparently not actively maintained. No code from that version is used in MySQLdb."	GPLv2+			
python2-uri-templates	python-uri-templates	"This is a Python implementation of RFC6570 URI Template and can expand templates up to and including Level 4 in that specification."	ASL 2.0			
fuel-notify	fuel-library9.0	"Disk space monitoring and notification for Fuel based on monit. For further information go to <a href="http://wiki.openstack.org/Fuel">http://wiki.openstack.org/Fuel</a> "	GPLv2			
python-jsonpath-rw-ext-doc	python-jsonpath-rw-ext	"Documentation for jsonpath-rw-ext"	ASL 2.0			

Package name	Source	Package Description	Package License	Encryption types	Encryption Max Key Length	Comment
python-senlinclient	python-senlinclient	"This is a client library for Senlin built on the Senlin clustering API. It provides a Python API (the senlinclient module) and a command-line tool (senlin)"	ASL 2.0			
erlang-observer	erlang	"A set of tools for tracing and investigation of distributed systems."	ERPL			
python-enum34	python-enum34	"Python 3.4 introduced official support for enumerations. This is a backport of that feature to Python 3.3 3.2 3.1 2.7 2.5 2.5 and 2.4. An enumeration is a set of symbolic names (members) bound to unique constant values. Within an enumeration the members can be compared by identity and the enumeration itself can be iterated over. This module defines two enumeration classes that can be used to define unique sets of names and values: Enum and IntEnum. It also defines one decorator unique that ensures only unique member names are present in an enumeration."	BSD			
dib-utils	dib-utils	"Pieces of diskimage-builder that are useful standalone. This allows them to be used without pulling in all of diskimage-builder and its dependencies."	ASL 2.0			
os-refresh-config	os-refresh-config	"Tool to refresh openstack config changes to service."	ASL 2.0			
python-gevent-debuginfo	python-gevent	"This package provides debug information for package python-gevent. Debug information is useful when developing applications that use this package or when debugging this package."	MIT			
python-empy	python-empy	"EmPy is a system for embedding Python expressions and statements in template text; it takes an EmPy source file processes it and produces output."	LGPLv2+			
python-zmq-debuginfo	python-zmq	"This package provides debug information for package python-zmq. Debug information is useful when developing applications that use this package or when debugging this package."	LGPLv3+ and ASL 2.0 and BSD			
python-simplejson-debuginfo	python-simplejson	"This package provides debug information for package python-simplejson. Debug information is useful when developing applications that use this package or when debugging this package."	(MIT or AFL) and (MIT or GPLv2)			
python3-pyparsing	pyparsing	"pyparsing is a module that can be used to easily and directly configure syntax definitions for any number of text parsing applications. This is the Python 3 version."	MIT			
uwsgi-logger-file	uwsgi	"This package contains the logfile logger plugin for uWSGI"	GPLv2 with exceptions			
yasm	yasm	"Yasm is a complete rewrite of the NASM assembler under the "new" BSD License (some portions are under other licenses see COPYING for details). It is designed from the ground up to allow for multiple assembler syntaxes to be supported (eg NASM TASM GAS etc.) in addition to multiple output object formats and even multiple instruction sets. Another primary module of the overall design is an optimizer module."	BSD and (GPLv2+ or Artistic or LGPLv2+) and LGPLv2			
openstack-ceilometer-api	openstack-ceilometer	"OpenStack ceilometer provides services to measure and collect metrics from OpenStack components. This package contains the ceilometer API service."	ASL 2.0			
uwsgi-plugin-gevent	uwsgi	"This package contains the gevent plugin for uWSGI"	GPLv2 with exceptions			
python-flask-doc	python-flask	"Documentation and examples for python-flask."	BSD			
os-net-config	os-net-config	"Host network configuration tool for OpenStack."	ASL 2.0			
openstack-nova-network	openstack-nova	"OpenStack Compute (codename Nova) is open source software designed to provision and manage large networks of virtual machines creating a redundant and scalable cloud computing platform. It gives you the software control panels and APIs required to orchestrate a cloud including running instances managing networks and controlling access through users and projects. OpenStack Compute strives to be both hardware and hypervisor agnostic currently supporting a variety of standard hardware configurations and seven major hypervisors. This package contains the Nova service for controlling networking."	ASL 2.0			
openstack-nova-console	openstack-nova	"OpenStack Compute (codename Nova) is open source software designed to provision and manage large networks of virtual machines creating a redundant and scalable cloud computing platform. It gives you the software control panels and APIs required to orchestrate a cloud including running instances managing networks and controlling access through users and projects. OpenStack Compute strives to be both hardware and hypervisor agnostic currently supporting a variety of standard hardware configurations and seven major hypervisors. This package contains the Nova services providing console access services to Virtual Machines."	ASL 2.0			
erlang-cosProperty	erlang	"Orber OMG Property Service."	ERPL			

Package name	Source	Package Description	Package License	Encryption types	Encryption Max Key Length	Comment
python3-pydotplus	python-pydotplus	"PyDotPlus is an improved version of the old pydot project that provides a Python Interface to Graphviz's Dot language. Python 3 version."	MIT			
python-msgpack-debuginfo	python-msgpack	"This package provides debug information for package python-msgpack. Debug information is useful when developing applications that use this package or when debugging this package."	ASL 2.0			
erlang-orber	erlang	"A CORBA Object Request Broker."	ERPL			
openstack-neutron-vpnaas	openstack-neutron-vpnaas	"This is a VPNaaS service plugin for Openstack Neutron (Networking) service."	ASL 2.0			
python-scales	python-scales	"Tracks server state and statistics allowing you to see what your server is doing. It can also send metrics to Graphite for graphing or to a file for crash forensics."	ASL 2.0			
python-pylibmc-debuginfo	python-pylibmc	"This package provides debug information for package python-pylibmc. Debug information is useful when developing applications that use this package or when debugging this package."	BSD			
bakefile-debuginfo	bakefile	"This package provides debug information for package bakefile. Debug information is useful when developing applications that use this package or when debugging this package."	MIT			
python3-nose-cover3	python-nose-cover3	"Coverage 3.x support for Nose."	LGPLv2+			
rubygem-atomic-doc	rubygem-atomic	"Documentation for rubygem-atomic."	ASL 2.0			
rubygem-kramdown	rubygem-kramdown	"kramdown is yet-another-markdown-parser but fast pure Ruby using a strict syntax definition and supporting several common extensions."	MIT			
python-barbicanclient	python-barbicanclient	"OpenStack Key Management API client - Python 2.x This is a client for the Barbican Key Management API. This package includes a Python library for accessing the API (the barbicanclient module) and a command-line script (barbican). This package contains the Python 2.x module."	ASL 2.0			
python-manilaclient	python-manilaclient	"Client library and command line utility for interacting with Openstack Share API."	ASL 2.0			
python-singledispatch	python-singledispatch	"PEP 443 proposed to expose a mechanism in the functools standard library module in Python 3.4 that provides a simple form of generic programming known as single-dispatch generic functions. This library is a backport of this functionality to Python 2.6 - 3.3."	MIT			
erlang-parsetools	erlang	"A set of parsing and lexical analysis tools."	ERPL			
python-ironicclient	python-ironicclient	"A python and command line client library for Ironic."	ASL 2.0			
python2-castellan	python-castellan	"Generic Key Manager interface for OpenStack"	ASL 2.0			
python-osprofiler-doc	python-osprofiler	"Documentation for the OpenStack Profiler Library"	ASL 2.0			
python-cinderclient-doc	python-cinderclient	"Client library (cinderclient python module) and command line utility (cinder) for interacting with OpenStack Cinder (Block Storage) API. This package contains auto-generated documentation."	ASL 2.0			
uwsgi-router-expires	uwsgi	"This package contains the expires router plugin for uWSGI"	GPLv2 with exceptions			
erlang-public_key	erlang	"API to public key infrastructure."	ERPL			
python-dictdiffer	python-dictdiffer	"Dictdiffer is a helper module that helps you to diff and patch dictionaries."	MIT			
erlang-common_test	erlang	"A portable framework for automatic testing."	ERPL			
fuel-umm	fuel-library9.0	"Packet provide possibility to put operation system in the state when it has only critical set of working services which are needed for basic network and disk operations. Also node in MM state is reachable with ssh from network. For further information go to: <a href="https://www.mirantis.com/products/mirantis-openstack-software/documentation/">https://www.mirantis.com/products/mirantis-openstack-software/documentation/</a> "	Apache 2.0			
python-urllib3	python-urllib3	"Python HTTP module with connection pooling and file POST abilities."	MIT			
python-dogpile-core	python-dogpile-core	"A "dogpile" lock one which allows a single thread to generate an expensive resource while other threads use the "old" value until the "new" value is ready. Dogpile is basically the locking code extracted from the Beaker package for simple and generic usage."	BSD			

Package name	Source	Package Description	Package License	Encryption types	Encryption Max Key Length	Comment
openstack-neutron	openstack-neutron	"Neutron is a virtual network service for Openstack. Just like OpenStack Nova provides an API to dynamically request and configure virtual servers Neutron provides an API to dynamically request and configure virtual networks. These networks connect "interfaces" from other OpenStack services (e.g. virtual NICs from Nova VMs). The Neutron API supports extensions to provide advanced network capabilities (e.g. QoS ACLs network monitoring etc.)"	ASL 2.0			
rubygem-symboltable	rubygem-symboltable	"A Symbols-only Hash for Ruby"	Distributable			
rubygem-libyajl2-debuginfo	rubygem-libyajl2	"This package provides debug information for package rubygem-libyajl2. Debug information is useful when developing applications that use this package or when debugging this package."	Distributable			
rubygem-rspec	rubygem-rspec	"RSpec is a behaviour driven development (BDD) framework for Ruby."	MIT			
liberasurecode-doc	liberasurecode	"The documentation for liberasurecode."	BSD			
fuel-provisioning-scripts	fuel-nailgun	"Fuel provisioning scripts package. This is a part of Fuel All-in-one Controle plane for Openstack. For more info go to <a href="http://wiki.openstack.org/Fuel">http://wiki.openstack.org/Fuel</a> "	Apache			
fcgi-debuginfo	fcgi	"This package provides debug information for package fcgi. Debug information is useful when developing applications that use this package or when debugging this package."	OML			
openstack-ceilometer-collector	openstack-ceilometer	"OpenStack ceilometer provides services to measure and collect metrics from OpenStack components. This package contains the ceilometer collector service which collects metrics from the various agents."	ASL 2.0			
python-lockfile	python-lockfile	"The lockfile module exports a FileLock class which provides a simple API for locking files. Unlike the Windows msvcrt.locking function the Unix fcntl.flock fcntl.lockf and the deprecated posixfile module the API is identical across both Unix (including Linux and Mac) and Windows platforms. The lock mechanism relies on the atomic nature of the link (on Unix) and mkdir (on Windows) system calls."	MIT			
erlang-crypto	erlang	"Cryptographical support."	ERPL			
wxGTK-debuginfo	wxGTK	"This package provides debug information for package wxGTK. Debug information is useful when developing applications that use this package or when debugging this package."	wxWidgets			
rubygem-librarian	rubygem-librarian	"A Framework for Bundlers."	MIT			
openstack-nova-doc	openstack-nova	"OpenStack Compute (codename Nova) is open source software designed to provision and manage large networks of virtual machines creating a redundant and scalable cloud computing platform. This package contains documentation files for nova."	ASL 2.0			
python3-numpy	numpy	"NumPy is a general-purpose array-processing package designed to efficiently manipulate large multi-dimensional arrays of arbitrary records without sacrificing too much speed for small multi-dimensional arrays. NumPy is built on the Numeric code base and adds features introduced by numarray as well as an extended C-API and the ability to create arrays of arbitrary type. There are also basic facilities for discrete fourier transform basic linear algebra and random number generation. Also included in this package is a version of f2py that works properly with NumPy."	BSD			
mod_proxy_uwsgi	uwsgi	"Fully Apache API compliant proxy module"	GPLv2 with exceptions			
python-jsonpatch	python-jsonpatch	"Library to apply JSON Patches according to RFC 6902 - Python 2 build."	BSD			
python3-snappy	python-snappy	"Python bindings for the snappy compression library from Google."	BSD			
python-dateutil-doc	python-dateutil	"This package contains API documentation for python-dateutil."	Python			
python-futures	python-futures	"The concurrent.futures module provides a high-level interface for asynchronously executing callables."	BSD			
python-oslo-serialization-doc	python-oslo-serialization	"Documentation for the oslo.serialization library."	ASL 2.0			
python-oslosphinx	python-oslosphinx	"The Oslo project intends to produce a python library containing infrastructure code shared by OpenStack projects. The APIs provided by the project should be high quality stable consistent and generally useful. The oslo-sphinx library contains Sphinx theme and extensions support used by OpenStack."	ASL 2.0			
erlang-snmp	erlang	"Simple Network Management Protocol (SNMP) support including a MIB compiler and tools for creating SNMP agents."	ERPL			
uwsgi-router-redirect	uwsgi	"This package contains the redirect router plugin for uWSGI"	GPLv2 with exceptions			

Package name	Source	Package Description	Package License	Encryption types	Encryption Max Key Length	Comment
rubygem-rgen	rubygem-rgen	"RGen is a framework for Model Driven Software Development (MDSD) in Ruby. This means that it helps you build Metamodels instantiate Models modify and transform Models and finally generate arbitrary textual content from it."	MIT			
python-keyczar	python-keyczar	"Keyczar is an open source cryptographic toolkit designed to make it easier and safer for developers to use cryptography in their applications. Keyczar supports authentication and encryption with both symmetric and asymmetric keys."	ASL 2.0			
openstack-neutron-bgp-dragent	openstack-neutron	"Neutron provides an API to dynamically request and configure virtual networks. This package contains the Neutron BGP Dynamic Routing agent that will host different BGP speaking drivers and makes the required BGP peering session/s for Neutron."	ASL 2.0			
python-happybase	python-happybase	"Python library to interact with Apache HBase"	MIT			
python2-oauth2client	python-oauth2client	"This is a python client module for accessing resources protected by OAuth 2.0"	ASL 2.0			
rubygem-yajl-ruby-doc	rubygem-yajl-ruby	"Documentation for rubygem-yajl-ruby"	Development			
mysql-wsrep-shared-5.6	MySQL	"This package contains the shared libraries (*.so*) which certain languages and applications need to dynamically load and use MySQL."	Copyright (c) 2000			
rubygem-mocha	rubygem-mocha	"Mocking and stubbing library with JMock/SchMock syntax which allows mocking and stubbing of methods on real (non-mock) classes."	MIT or Ruby or BSD			
rubygem-net-ssh	rubygem-net-ssh	"Net::SSH: a pure-Ruby implementation of the SSH2 client protocol."	MIT			
python-tornado-doc	python-tornado	"Tornado is an open source version of the scalable non-blocking web server and and tools. This package contains some example applications."	ASL 2.0			
python-oauthlib	python-oauthlib	"OAuthLib is a generic utility which implements the logic of OAuth without assuming a specific HTTP request object or web framework. Use it to graft OAuth client support onto your favorite HTTP library or provider support onto your favourite web framework. If you're a maintainer of such a library write a thin veneer on top of OAuthLib and get OAuth support for very little effort."	BSD			
rubygem-tzinfo	rubygem-tzinfo	"TZInfo is a Ruby library that uses the standard tz (Olson) database to provide daylight savings aware transformations between times in different time zones."	MIT			
python-mistral	mistral	"Mistral is a workflow service. Most business processes consist of multiple distinct interconnected steps that need to be executed in a particular order in a distributed environment. One can describe such process as a set of tasks and task relations and upload such description to Mistral so that it takes care of state management correct execution order parallelism synchronization and high availability. . This package contains the Python libraries."	Apache License			
python-oslo-middleware	python-oslo-middleware	"An OpenStack library for representing objects in transmittable and storable formats."	ASL 2.0			
python-cffi	python-cffi	"Foreign Function Interface for Python providing a convenient and reliable way of calling existing C code from Python. The interface is based on LuaJIT's FFI."	MIT			
rubygem-raemon	rubygem-raemon	"Raemon is a Ruby framework for building UNIX daemons."	Apache			
libradosstriper1-devel	ceph	"This package contains libraries and headers needed to develop programs that use RADOS striping interface."	LGPL-2.0			
uwsgi-router-rewrite	uwsgi	"This package contains the rewrite router plugin for uWSGI"	GPLv2 with exceptions			
python2-psycogreen	python-psycogreen	"The psycogreen package enables psycopg2 to work with coroutine libraries using asynchronous calls internally but offering a blocking interface so that regular code can run unmodified. Python 2 version."	MIT			
gperftools-devel	gperftools	"Libraries and headers for developing applications that use gperftools."	BSD			
python3-mimeparse	python-mimeparse	"This module provides basic functions for parsing mime-type names and matching them against a list of media-ranges."	MIT			
python-unicodcsv	python-unicodcsv	"Python 2's csv module doesn't easily deal with unicode strings leading to the dreaded '"ascii' codec can't encode characters in position ..." exception. The unicodcsv is a drop-in replacement for Python 2's csv module which supports unicode strings without a hassle."	BSD-2-Clause			
python-oslo-rootwrap-doc	python-oslo-rootwrap	"Documentation for the oslo-rootwrap python library"	ASL 2.0			
python-pretend	python-pretend	"Pretend is a library to make stubbing with Python easier."	BSD			



Package name	Source	Package Description	Package License	Encryption types	Encryption Max Key Length	Comment
nginxfilesystem	nginx	"The nginxfilesystem package contains the basic directory layout for the Nginx server including the correct permissions for the directories."	BSD			
python-oslo-middleware-doc	python-oslo-middleware	"Documentation for the oslo.middleware library."	ASL 2.0			
fcgi-devel	fcgi	"The fcgi-devel package contains libraries and header files for developing applications that use fcgi."	OML			
python-semantic_version	python-semantic_version	"This small python library provides a few tools to handle semantic versioning in Python"	BSD			
erlang-cosEventDomain	erlang	"Orber OMG Event Domain Service."	ERPL			
openstack-heat-api-cloudwatch	openstack-heat	"AWS CloudWatch-compatible API to the Heat Engine"	ASL 2.0			
python-keystonemiddleware-doc	python-keystonemiddleware	"Documentation for the Middleware for OpenStack Identity"	ASL 2.0			
python-cinder	openstack-cinder	"OpenStack Volume (codename Cinder) provides services to manage and access block storage volumes for use by Virtual Machine instances. This package contains the cinder Python library."	ASL 2.0			
openpgm	openpgm	"OpenPGM is an open source implementation of the Pragmatic General Multicast (PGM) specification in RFC 3208."	LGPLv2			
ironic-fa-bootstrap-configs	fuel-agent	"Ironic bootstrap config files with Fuel Agent"	Apache			
daemonize-debuginfo	daemonize	"This package provides debug information for package daemonize. Debug information is useful when developing applications that use this package or when debugging this package."	BSD			
saslwrapper-debuginfo	saslwrapper	"This package provides debug information for package saslwrapper. Debug information is useful when developing applications that use this package or when debugging this package."	ASL 2.0			
python3-libs	python3	"This package contains files used to embed Python 3 into applications."	Python			
zeromq-devel	zeromq	"The zeromq-devel package contains libraries and header files for developing applications that use zeromq."	LGPLv3+			
openstack-heat-doc	openstack-heat	"Heat provides AWS CloudFormation and CloudWatch functionality for OpenStack . This package contains documentation for Heat."	ASL 2.0			
openstack-keystone	openstack-keystone	"Keystone is a Python implementation of the OpenStack ( <a href="http://www.openstack.org">http://www.openstack.org</a> ) identity service API. This package contains the Keystone daemon."	ASL 2.0			
python3-greenlet	python-greenlet	"The greenlet package is a spin-off of Stackless a version of CPython that supports micro-threads called "tasklets". Tasklets run pseudo-concurrently (typically in a single or a few OS-level threads) and are synchronized with data exchanges on "channels". This is the Python 3 version of greenlet."	MIT			
python-ujson-debuginfo	python-ujson	"This package provides debug information for package python-ujson. Debug information is useful when developing applications that use this package or when debugging this package."	BSD			
pexpect	pexpect	"Pexpect is a pure Python module for spawning child applications; controlling them; and responding to expected patterns in their output. Pexpect works like Don Libes' Expect. Pexpect allows your script to spawn a child application and control it as if a human were typing commands. Pexpect can be used for automating interactive applications such as ssh ftp passwd telnet etc. It can be used to automate setup scripts for duplicating software package installations on different servers. And it can be used for automated software testing. Pexpect is in the spirit of Don Libes' Expect but Pexpect is pure Python. Unlike other Expect-like modules for Python Pexpect does not require TCL or Expect nor does it require C extensions to be compiled. It should work on any platform that supports the standard Python pty module."	MIT			
erlang-diameter	erlang	"Diameter (RFC 3588) library"	ERPL			
scipy-debuginfo	scipy	"This package provides debug information for package scipy. Debug information is useful when developing applications that use this package or when debugging this package."	BSD and Boost and Public Domain			

Package name	Source	Package Description	Package License	Encryption types	Encryption Max Key Length	Comment
ruby	ruby	"Ruby is the interpreted scripting language for quick and easy object-oriented programming. It has many features to process text files and to do system management tasks (as in Perl). It is simple straight-forward and extensible."	(Ruby or BSD) and Public Domain			
python3-mock	python-mock	"Mock is a Python module that provides a core mock class. It removes the need to create a host of stubs throughout your test suite. After performing an action you can make assertions about which methods / attributes were used and arguments they were called with. You can also specify return values and set needed attributes in the normal way."	BSD			
python3-beaker	python-beaker	"Beaker is a caching library that includes Session and Cache objects built on Myghty's Container API used in MyghtyUtils. WSGI middleware is also included to manage Session objects and signed cookies."	BSD and MIT			
zeromq3-devel	zeromq3	"The zeromq3-devel package contains libraries and header files for developing applications that use zeromq3 3.x."	LGPLv3+ with exceptions			
openstack-ceilometer-compute	openstack-ceilometer	"OpenStack ceilometer provides services to measure and collect metrics from OpenStack components. This package contains the ceilometer agent for running on OpenStack compute nodes."	ASL 2.0			
os-brick	os-brick	"OpenStack Cinder brick library for managing local volume attaches Features ----- * Discovery of volumes being attached to a host for many transport protocols. * Removal of volumes from a host. For any other imformation refer to the parent project Cinder: <a href="https://github.com/openstack/cinder">https://github.com/openstack/cinder</a> "	ASL 2.0			
wxGTK-gl	wxGTK	"OpenGL (a 3D graphics API) add-on for the wxWidgets library."	wxWidgets			
rubygem-nokogiri	rubygem-nokogiri	"Nokogiri parses and searches XML/HTML very quickly and also has correctly implemented CSS3 selector support as well as XPath support. Nokogiri also features an Hpricot compatibility layer to help ease the change to using correct CSS and XPath."	MIT			
rubygem-stomp-doc	rubygem-stomp	"This package contains documentation for rubygem-stomp."	ASL 2.0			
python-webtest	python-webtest	"This wraps any WSGI application and makes it easy to send test requests to that application without starting up an HTTP server. This provides convenient full-stack testing of applications written with any WSGI-compatible framework."	MIT			
python-networkx-core	python-networkx	"NetworkX is a Python 2 package for the creation manipulation and study of the structure dynamics and functions of complex networks."	BSD			
python-mistralclient-doc	python-mistralclient	"Documentation for the client library for Mistral API and Command Line Interface (CLI) library."	Apache License			
python-flake8	python-flake8	"Flake8 is a wrapper around these tools: - PyFlakes - pep8 - Ned's McCabe script Flake8 runs all tools by launching the single 'flake8' script but ignores pep8 and PyFlakes extended options and just uses defaults. It displays the warnings in a per-file merged output. It also adds a few features: - files that contains with this header are skipped:: - lines that contains a "# NOQA" comment at the end will not issue a warning. - a Mercurial hook. - a McCabe complexity checker."	MIT			
rubygem-wmi-lite	rubygem-wmi-lite	"A lightweight utility over win32ole for accessing basic WMI (Windows Management Instrumentation) functionality in the Microsoft Windows operating system. It has no runtime dependencies other than Ruby so it can be used without concerns around dependency issues."	Apache 2.0			
python-sphinx-theme-better	python-sphinx-theme-better	"This is a modified version of the default Sphinx theme with the following goals: * Remove frivolous colors especially hard-coded ones * Improve readability by limiting width and using more whitespace * Encourage visual customization through CSS not themeconf * Use semantic markup"	BSD			
python-thrift	thrift	"The python-thrift package contains Python bindings for thrift."	ASL 2.0 and BSD and zlib			
rubygem-rspec-doc	rubygem-rspec	"This package contains documentation for rubygem-rspec."	MIT			
erlang-dialyzer	erlang	"A Discrepancy AnaLYZer for Erlang programs."	ERPL			
Xaw3d-debuginfo	Xaw3d	"This package provides debug information for package Xaw3d. Debug information is useful when developing applications that use this package or when debugging this package."	MIT			
python-tornado	python-tornado	"Tornado is an open source version of the scalable non-blocking web server and tools. The framework is distinct from most mainstream web server frameworks (and certainly most Python frameworks) because it is non-blocking and reasonably fast. Because it is non-blocking and uses epoll it can handle thousands of simultaneous standing connections which means it is ideal for real-time web services."	ASL 2.0			

Package name	Source	Package Description	Package License	Encryption types	Encryption Max Key Length	Comment
openstack-ceilometer-polling	openstack-ceilometer	"Ceilometer aims to deliver a unique point of contact for billing systems to acquire all counters they need to establish customer billing across all current and future OpenStack components. The delivery of counters must be traceable and auditable the counters must be easily extensible to support new projects and agents doing data collections should be independent of the overall system. This package contains the polling service."	ASL 2.0			
rubygem-fakefs	rubygem-fakefs	"A fake filesystem. Use it in your tests."	MIT			
python-amqp	python-amqp	"Client library for AMQP (Advanced Message Queuing Protocol) Supports the 0-8 AMQP spec and has been tested with RabbitMQ and Python's 2.4 2.5 and 2.6."	LGPLv2+			
rubygem-mixlib-shellout-doc	rubygem-mixlib-shellout	"This package contains documentation for rubygem-mixlib-shellout."	Distributable			
uwsgi-logger-graylog2	uwsgi	"This package contains the graylog2 logger plugin for uWSGI"	GPLv2 with exceptions			
saslwrapper	saslwrapper	"A simple wrapper for Cyrus SASL that permits easy binding into scripting languages."	ASL 2.0			
python3-pygments	python-pygments	"Pygments is a generic syntax highlighter for general use in all kinds of software such as forum systems wikis or other applications that need to prettify source code. Highlights are: * a wide range of common languages and markup formats is supported * special attention is paid to details that increase highlighting quality * support for new languages and formats are added easily; most languages use a simple regex-based lexing mechanism * a number of output formats is available among them HTML RTF LaTeX and ANSI sequences * it is usable as a command-line tool and as a library * ... and it highlights even Brainf*ck!"	BSD			
python-neutron-vpnaas-tests	openstack-neutron-vpnaas	"This is a VPNaaS service plugin for Openstack Neutron (Networking) service. This package contains Neutron VPNaaS test files."	ASL 2.0			
python-wrapt	python-wrapt	"The aim of the wrapt module is to provide a transparent object proxy for Python which can be used as the basis for the construction of function wrappers and decorator functions."	BSD			
python-cherrypy	python-cherrypy	"CherryPy allows developers to build web applications in much the same way they would build any other object-oriented Python program. This usually results in smaller source code developed in less time."	BSD			
ansible	ansible	" Ansible is a radically simple model-driven configuration management multi-node deployment and remote task execution system. Ansible works over SSH and does not require any software or daemons to be installed on remote nodes. Extension modules can be written in any language and are transferred to managed machines automatically."	GPLv3+			
fuel-ui	fuel-ui	"Nailgun UI package"	Apache			
postgresql-plperl	postgresql	"The postgresql-plperl package contains the PL/Perl procedural language which is an extension to the PostgreSQL database server. Install this if you want to write database functions in Perl."	PostgreSQL			
python-ironic-lib	python-ironic-lib	"A python library of common ironic utilities"	ASL 2.0			
nodejs-nailgun	nodejs-nailgun	"Automatically generated package for nailgun node_modules"	Copyright Joyent	sha	512	
nodejs-nailgun	nodejs-nailgun	"Automatically generated package for nailgun node_modules"	Copyright Joyent	pbkdf2	unknown	hash
nodejs-nailgun	nodejs-nailgun	"Automatically generated package for nailgun node_modules"	Copyright Joyent	aes	256	
nodejs-nailgun	nodejs-nailgun	"Automatically generated package for nailgun node_modules"	Copyright Joyent	ripemd	160	
nodejs-nailgun	nodejs-nailgun	"Automatically generated package for nailgun node_modules"	Copyright Joyent	md5	128	
fakeroot-debuginfo	fakeroot	"This package provides debug information for package fakeroot. Debug information is useful when developing applications that use this package or when debugging this package."	GPL+			
rubygem-ffi	rubygem-ffi	"Ruby-FFI is a ruby extension for programmatically loading dynamic libraries binding functions within them and calling those functions from Ruby code. Moreover a Ruby-FFI extension works without changes on Ruby and JRuby. Discover why should you write your next extension using Ruby-FFI here[http://wiki.github.com/ffi/ffi/why-use-ffi]."	BSD			
openstack-ironic-api	openstack-ironic	"Ironic API for management and provisioning of physical machines"	ASL 2.0			
openstack-neutron-metering-agent	openstack-neutron	"Neutron provides an API to measure bandwidth utilization This package contains the Neutron agent responsible for generating bandwidth utilization notifications."	ASL 2.0			
leveldb	leveldb	"LevelDB is a fast key-value storage library written at Google that provides an ordered mapping from string keys to string values."	BSD			

Package name	Source	Package Description	Package License	Encryption types	Encryption Max Key Length	Comment
python3-flask	python-flask	"Flask is called a ?micro-framework? because the idea to keep the core simple but extensible. There is no database abstraction layer no form validation or anything else where different libraries already exist that can handle that. However Flask knows the concept of extensions that can add this functionality into your application as if it was implemented in Flask itself. There are currently extensions for object relational mappers form validation upload handling various open authentication technologies and more."	BSD			
python-decorator	python-decorator	"The aim of the decorator module is to simplify the usage of decorators for the average programmer and to popularize decorators usage giving examples of useful decorators such as memoize tracing redirecting_stdout locked etc. The core of this module is a decorator factory called decorator."	BSD			
python3-markupsafe	python-markupsafe	"A library for safe markup escaping."	BSD			
python3-pytz	pytz	"pytz brings the Olson tz database into Python. This library allows accurate and cross platform timezone calculations using Python 2.3 or higher. It also solves the issue of ambiguous times at the end of daylight savings which you can read more about in the Python Library Reference (datetime.tzinfo). Almost all (over 540) of the Olson timezones are supported."	MIT			
python-yaql-doc	python-yaql	"Documentation for YAQL library"	ASL 2.0			
python-ncclient	python-ncclient	"This project is a Python library that facilitates client-side scripting and application development around the NETCONF protocol."	ASL 2.0			
erlang-compiler	erlang	"A byte code compiler for Erlang which produces highly compact code."	ERPL			
pytest	pytest	"py.test provides simple yet powerful testing for Python."	MIT			
mcollective-common	mcollective	"Common libraries for the mcollective clients and servers"	ASL 2.0			
uwsgi-router-metrics	uwsgi	"This package contains the metrics router plugin for uWSGI"	GPLv2 with exceptions			
python-oslo-log	python-oslo-log	"OpenStack logging configuration library provides standardized configuration for all openstack projects.It also provides custom formatters handlers and support for context specific logging (like resource id's etc)."	ASL 2.0			
openjpeg2-devel-docs	openjpeg2	"The openjpeg2-devel-docs package contains documentation files for developing applications that use OpenJPEG 2."	BSD and MIT			
python-html5lib	python-html5lib	"A python based HTML parser/tokenizer based on the WHATWG HTML5 specification for maximum compatibility with major desktop web browsers."	MIT			
python3-ecdsa	python-ecdsa	"This is an easy-to-use implementation of ECDSA cryptography (Elliptic Curve Digital Signature Algorithm) implemented purely in Python released under the MIT license. With this library you can quickly create keypairs (signing key and verifying key) sign messages and verify the signatures. The keys and signatures are very short making them easy to handle and incorporate into other protocols. NOTE: The prime192v1 and secp224r1 curves are currently disabled."	MIT			
python-oslotest	python-oslotest	"OpenStack test framework"	Apache-2.0			
rubygem-nokogiri-debuginfo	rubygem-nokogiri	"This package provides debug information for package rubygem-nokogiri. Debug information is useful when developing applications that use this package or when debugging this package."	MIT			
python-openvswitch	openvswitch	"Python bindings for the Open vSwitch database"	ASL 2.0	lex	128	
python-openvswitch	openvswitch	"Python bindings for the Open vSwitch database"	ASL 2.0	crypt	65	
python-openvswitch	openvswitch	"Python bindings for the Open vSwitch database"	ASL 2.0	aes	256	
python-openvswitch	openvswitch	"Python bindings for the Open vSwitch database"	ASL 2.0	sha	512	
python-openvswitch	openvswitch	"Python bindings for the Open vSwitch database"	ASL 2.0	md5	128	
PyYAML	PyYAML	"YAML is a data serialization format designed for human readability and interaction with scripting languages. PyYAML is a YAML parser and emitter for Python. PyYAML features a complete YAML 1.1 parser Unicode support pickle support capable extension API and sensible error messages. PyYAML supports standard YAML tags and provides Python-specific tags that allow to represent an arbitrary Python object. PyYAML is applicable for a broad range of tasks from complex configuration files to object serialization and persistence."	MIT			
python-nose-cover3	python-nose-cover3	"Coverage 3.x support for Nose."	LGPLv2+			
rubygem-ffi-debuginfo	rubygem-ffi	"This package provides debug information for package rubygem-ffi. Debug information is useful when developing applications that use this package or when debugging this package."	BSD			

Package name	Source	Package Description	Package License	Encryption types	Encryption Max Key Length	Comment
task-debuginfo	task	"This package provides debug information for package task. Debug information is useful when developing applications that use this package or when debugging this package."	MIT			
liberasurecode-debuginfo	liberasurecode	"This package provides debug information for package liberasurecode. Debug information is useful when developing applications that use this package or when debugging this package."	BSD			
erlang-os_mon	erlang	"A monitor which allows inspection of the underlying operating system."	ERPL			
rubygem-nokogiri-doc	rubygem-nokogiri	"This package contains documentation for rubygem-nokogiri."	MIT			
htop-debuginfo	htop	"This package provides debug information for package htop. Debug information is useful when developing applications that use this package or when debugging this package."	GPL+			
python-subunit	python-subunit	"A streaming protocol for test results"	ASL 2.0			
python-nose-docs	python-nose	"Documentation for Nose"	LGPLv2+ and Public Domain			
v8	v8	"V8 is Google's open source JavaScript engine. V8 is written in C++ and is used in Google Chrome the open source browser from Google. V8 implements ECMAScript as specified in ECMA-262 3rd edition."	BSD			
pysnmp	pysnmp	"This is a Python implementation of SNMP v.1/v.2c engine. It's general functionality is to assemble/disassemble SNMP messages from/into given SNMP Object IDs along with associated values. PySNMP also provides a few transport methods specific to TCP/IP networking."	BSD			
rubygem-pathspect-doc	rubygem-pathspect	"Documentaion for rubygem-pathspect"	ASL 2.0			
python-django-doc	python-django	"This package contains the documentation for the Django high-level Python Web framework."	BSD			
uwsgi-router-ssl	uwsgi	"This package contains the SSL router plugin for uWSGI"	GPLv2 with exceptions			
rubygem-eventmachine	rubygem-eventmachine	"EventMachine implements a fast single-threaded engine for arbitrary network communications. It's extremely easy to use in Ruby. EventMachine wraps all interactions with IP sockets allowing programs to concentrate on the implementation of network protocols. It can be used to create both network servers and clients. To create a server or client a Ruby program only needs to specify the IP address and port and provide a Module that implements the communications protocol. Implementations of several standard network protocols are provided with the package primarily to serve as examples. The real goal of EventMachine is to enable programs to easily interface with other programs using TCP/IP especially if custom protocols are required."	GPLv2 or Ruby			
wxBase	wxGTK	"Every wxWidgets application must link against this library. It contains mandatory classes that any wxWidgets code depends on (like wxString) and portability classes that abstract differences between platforms. wxBase can be used to develop console mode applications -- it does not require any GUI libraries or the X Window System."	wxWidgets			
pssh	pssh	"This package provides various parallel tools based on ssh and scp. Parallell version includes: o ssh : pssh o scp : pscp o nuke : pnuke o rsync : prsync o slurp : pslurp"	BSD			
task	task	"Task is a command-line to do list manager. It has support for GTD functionality and includes the following features: tags colorful tabular output reports and graphs lots of manipulation commands low-level API abbreviations for all commands and options multi-user file locking recurring tasks."	MIT			
fuel-rabbit-fence	fuel-library9.0	"A set of scripts for Fuel deployment utility HA RabbitMQ deployment For further information go to <a href="http://wiki.openstack.org/Fuel">http://wiki.openstack.org/Fuel</a> "	Apache 2.0			
rubygem-mixlib-config	rubygem-mixlib-config	"Ruby gem mixlib-config"	Distributable			
pyflakes	pyflakes	"Pyflakes is similar to PyChecker in scope but differs in that it does not execute the modules to check them. This is both safer and faster although it does not perform as many checks. Unlike PyLint Pyflakes checks only for logical errors in programs; it does not perform any check on style."	MIT			
shotgun	shotgun	"Shotgun package."	Apache			

Package name	Source	Package Description	Package License	Encryption types	Encryption Max Key Length	Comment
python-botocore	python-botocore	"A low-level interface to a growing number of Amazon Web Services. The botocore package is the foundation for AWS-CLI. This package contains the library for Python 2."	ASL 2.0			
saslwrapper-devel	saslwrapper	"The header files for developing with saslwrapper."	ASL 2.0			
scipy	scipy	"Scipy is open-source software for mathematics science and engineering. The core library is NumPy which provides convenient and fast N-dimensional array manipulation. The SciPy library is built to work with NumPy arrays and provides many user-friendly and efficient numerical routines such as routines for numerical integration and optimization. Together they run on all popular operating systems are quick to install and are free of charge. NumPy and SciPy are easy to use but powerful enough to be depended upon by some of the world's leading scientists and engineers."	BSD and Boost and Public Domain			
openstack-nova-compute	openstack-nova	"OpenStack Compute (codename Nova) is open source software designed to provision and manage large networks of virtual machines creating a redundant and scalable cloud computing platform. It gives you the software control panels and APIs required to orchestrate a cloud including running instances managing networks and controlling access through users and projects. OpenStack Compute strives to be both hardware and hypervisor agnostic currently supporting a variety of standard hardware configurations and seven major hypervisors. This package contains the Nova service for controlling Virtual Machines."	ASL 2.0			
python-kazoo	python-kazoo	"Kazoo is a Python library designed to make working with Zookeeper a more hassle-free experience that is less prone to errors."	ASL 2.0			
python-tornado-debuginfo	python-tornado	"This package provides debug information for package python-tornado. Debug information is useful when developing applications that use this package or when debugging this package."	ASL 2.0			
python3-simplegeneric	python-simplegeneric	"The simplegeneric module lets you define simple single-dispatch generic functions akin to Python's built-in generic functions like len() iter() and so on. However instead of using specially-named methods these generic functions use simple lookup tables akin to those used by e.g. pickle.dump() and other generic functions found in the Python standard library."	Python or ZPLv2.1			
nutcracker	nutcracker	"twemproxy (pronounced "two-em-proxy") aka nutcracker is a fast and lightweight proxy for memcached and redis protocol. It was primarily built to reduce the connection count on the backend caching servers. This together with protocol pipelining and sharding enables you to horizontally scale your distributed caching architecture."	Apache License 2.0			
python-zaqarclient	python-zaqarclient	"Python client to Zaqar messaging service API v1"	ASL 2.0			
rubygem-docile-doc	rubygem-docile	"Documentation for rubygem-docile"	MIT			
ruby-doc	ruby	"This package contains documentation for ruby."	(Ruby or BSD) and Public Domain			
python3-flask-restful	python-flask-restful	"Flask-RESTful is Python 3 extension for Flask that adds support for quickly building REST APIs. It is a lightweight abstraction that works with your existing ORM/libraries."	BSD			
python-osprofiler	python-osprofiler	"OSProfiler is an OpenStack cross-project profiling library."	ASL 2.0			
python-qpido-proton	qpido-proton	"Python language bindings for the Qpid Proton messaging framework."	ASL 2.0			
rubygem-yajl-ruby	rubygem-yajl-ruby	""	Development			
uwsgi-logger-rsyslog	uwsgi	"This package contains the rsyslog logger plugin for uWSGI"	GPLv2 with exceptions			
rubygem-capypara-doc	rubygem-capypara	"Documentation for rubygem-capypara"	MIT			
python-taskflow-doc	python-taskflow	"A library to do [jobs tasks flows] in a HA manner using different backends to be used with OpenStack projects. This package contains the associated documentation."	ASL 2.0			
python-sqlparse	python-sqlparse	"sqlparse is a tool for parsing SQL strings. It can generate pretty-printed renderings of SQL in various formats. It is a python module together with a command-line tool."	BSD			
fuel-bootstrap-cli	fuel-agent	"User-friendly wrapper for user set of scripts from fuel-agent"	Apache			
python2-openstacksdk-tests	python-openstacksdk	"A collection of libraries for building applications to work with OpenStack clouds - test files"	ASL 2.0			

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python-pillow-sane	python-pillow	"This package contains the sane module for Python which provides access to various raster scanning devices such as flatbed scanners and digital cameras."	MIT			
python-monotonic	python-monotonic	"This module provides a ``monotonic()`` function which returns the value (in fractional seconds) of a clock which never goes backwards. On Python 3.3 or newer ``monotonic`` will be an alias of ``time.monotonic`` from the standard library. On older versions it will fall back to an equivalent platform specific implementation."	ASL 2.0			
python-http-parser-debuginfo	python-http-parser	"This package provides debug information for package python-http-parser. Debug information is useful when developing applications that use this package or when debugging this package."	MIT			
libthrift-javadoc	thrift	"The libthrift-javadoc package contains API documentation for the Java bindings for thrift."	ASL 2.0 and BSD and zlib			
rubygem-rest-client	rubygem-rest-client	"A simple Simple HTTP and REST client for Ruby inspired by the Sinatra microframework style of specifying actions: get put post delete."	MIT			
python-neutron-vpnaas	openstack-neutron-vpnaas	"This is a VPNaaS service plugin for Openstack Neutron (Networking) service. This package contains the Neutron VPNaaS Python library."	ASL 2.0			
python-extras	python-extras	"extras is a set of extensions to the Python standard library originally written to make the code within testtools cleaner but now split out for general use outside of a testing context."	MIT			
uwsgi-plugin-ugreen	uwsgi	"This package contains the uGreen plugin for uWSGI"	GPLv2 with exceptions			
python3-flask-doc	python-flask	"Documentation and examples for python3-flask."	BSD			
rubygem-net-ssh-doc	rubygem-net-ssh	"Documentation for rubygem-net-ssh"	MIT			
rubygem-RedCloth	rubygem-RedCloth	"Textile parser for Ruby."	MIT			
python2-wsaccel	python-wsaccel	"* WSACcell is WebSocket accelerator for AutobahnPython ws4py and Tornado. * WSACcell replaces per-byte process in them with Cython version. * AutobahnPython beginning with version 0.6 automatically uses WSACcell if available."	ASL 2.0			
python3-amqpplib	python-amqpplib	"Client library for AMQP (Advanced Message Queuing Protocol) Supports the 0-8 AMQP spec and has been tested with RabbitMQ and Python's 2.4 up to 3.2"	LGPLv2+			
python-sphinxcontrib-pecanwsme	python-sphinxcontrib-pecanwsme	"Extension to Sphinx for generating REST API documentation for <a href="http://api.openstack.org/">http://api.openstack.org/</a> "	Apache-2			
python-cachetools	python-cachetools	"This module provides various memoizing collections and decorators including a variant of the Python 3 Standard Library @lru_cache function decorator. This module provides multiple cache implementations based on different cache algorithms as well as decorators for easily memoizing function and method calls."	MIT			
rubygem-amqp	rubygem-amqp	"Widely used feature-rich asynchronous RabbitMQ client with batteries included"	MIT			
openstack-neutron-fwaas	openstack-neutron-fwaas	"This is a FWaaS service plugin for Openstack Neutron (Networking) service."	ASL 2.0			
python-oslo-serialization	python-oslo-serialization	"An OpenStack library for representing objects in transmittable and storable formats."	ASL 2.0			
rubygem-yard	rubygem-yard	"YARD is a documentation generation tool for the Ruby programming language. It enables the user to generate consistent usable documentation that can be exported to a number of formats very easily and also supports extending for custom Ruby constructs such as custom class level definitions."	MIT and (BSD or Ruby)			
python-osnagios	python-osnagios	"Nagios plugins for OpenStack"	GPL			
rubygem-ohai-doc	rubygem-ohai	"This package contains documentation for rubygem-ohai."	ASL 2.0			
qpido-proton-c-devel-doc	qpido-proton	"Documentation for the C development libraries for Qpid Proton."	ASL 2.0			
postgresql-upgrade	postgresql	"The postgresql-upgrade package contains the pg_upgrade utility and supporting files needed for upgrading a PostgreSQL database from the previous major version of PostgreSQL."	PostgreSQL			
rubygem-test_declarative	rubygem-test_declarative	"Simply adds a declarative test method syntax to test/unit."	MIT			
openstack-neutron-lbaas	openstack-neutron-lbaas	"This is a LBaaS service plugin for Openstack Neutron (Networking) service."	ASL 2.0			
bootswatch-fonts	python-XStatic-bootswatch	"Bootswatch fonts"	MIT			

Package name	Source	Package Description	Package License	Encryption types	Encryption Max Key Length	Comment
postgresql-test	postgresql	"The postgresql-test package contains files needed for various tests for the PostgreSQL database management system including regression tests and benchmarks."	PostgreSQL			
python3-networkx-core	python-networkx	"NetworkX is a Python 3 package for the creation manipulation and study of the structure dynamics and functions of complex networks."	BSD			
python34-zmq-tests	python-zmq	"The 0MQ lightweight messaging kernel is a library which extends the standard socket interfaces with features traditionally provided by specialized messaging middle-ware products. 0MQ sockets provide an abstraction of asynchronous message queues multiple messaging patterns message filtering (subscriptions) seamless access to multiple transport protocols and more. This package contains the testsuite for the python bindings."	LGPLv3+			
python-prettytable	python-prettytable	"PrettyTable is a simple Python library designed to make it quick and easy to represent tabular data in visually appealing ASCII tables. It was inspired by the ASCII tables used in the PostgreSQL shell psql. PrettyTable allows for selection of which columns are to be printed independent alignment of columns (left or right justified or centred) and printing of "sub-tables" by specifying a row range."	BSD			
python2-google-api-client	google-api-python-client	"Written by Google this library provides a small flexible and powerful Python client library for accessing Google APIs."	ASL 2.0			
libvirt-python	libvirt-python	"The libvirt-python package contains a module that permits applications written in the Python programming language to use the interface supplied by the libvirt library to use the virtualization capabilities of recent versions of Linux (and other OSes)."	LGPLv2+			
openvswitch-test	openvswitch	"Utilities that are useful to diagnose performance and connectivity issues in Open vSwitch setup."	ASL 2.0	lex	128	
openvswitch-test	openvswitch	"Utilities that are useful to diagnose performance and connectivity issues in Open vSwitch setup."	ASL 2.0	crypt	65	
openvswitch-test	openvswitch	"Utilities that are useful to diagnose performance and connectivity issues in Open vSwitch setup."	ASL 2.0	aes	256	
openvswitch-test	openvswitch	"Utilities that are useful to diagnose performance and connectivity issues in Open vSwitch setup."	ASL 2.0	sha	512	
openvswitch-test	openvswitch	"Utilities that are useful to diagnose performance and connectivity issues in Open vSwitch setup."	ASL 2.0	md5	128	
python3-WSGIProxy2	python-WSGIProxy2	"WSGI Proxy that supports several HTTP backends. This package contains Python 3 build of the library."	MIT			
python-httpretty	python-httpretty	"Once upon a time a python developer wanted to use a RESTful API everything was fine but until the day he needed to test the code that hits the RESTful API: what if the API server is down? What if its content has changed? Don't worry HTTPretty is here for you."	MIT			
python-snappy	python-snappy	"Python bindings for the snappy compression library from Google."	BSD			
rubygems	ruby	"RubyGems is the Ruby standard for publishing and managing third party libraries."	Ruby or MIT			
lrzip-devel	lrzip	"Files needed to develop application using Long Range ZIP library."	GPLv2+			
gperftools-lib	gperftools	"Libraries provided by gperftools including libtcmalloc and libprofiler."	BSD			
python-pymongo-debuginfo	python-pymongo	"This package provides debug information for package python-pymongo. Debug information is useful when developing applications that use this package or when debugging this package."	ASL 2.0 and MIT			
uwsgi-plugin-rack	uwsgi	"This package contains the rack plugin for uWSGI"	GPLv2 with exceptions			
nginx	nginx	"Nginx is a web server and a reverse proxy server for HTTP SMTP POP3 and IMAP protocols with a strong focus on high concurrency performance and low memory usage."	BSD			
python-testtools	python-testtools	"testtools is a set of extensions to the Python standard library's unit testing framework."	MIT			
uwsgi-router-raw	uwsgi	"This package contains the Raw router plugin for uWSGI"	GPLv2 with exceptions			
postgresql-devel	postgresql	"The postgresql-devel package contains the header files and libraries needed to compile C or C++ applications which will directly interact with a PostgreSQL database management server. It also contains the ecpg Embedded C Postgres preprocessor. You need to install this package if you want to develop applications which will interact with a PostgreSQL server."	PostgreSQL			
uwsgi-plugin-dumbloop	uwsgi	"This package contains the dumbloop plugin for uWSGI"	GPLv2 with exceptions			
rubygem-erubis-doc	rubygem-erubis	"This package contains documentation for rubygem-erubis."	MIT and BSD			
erlang-test_server	erlang	"The OTP Test Server."	ERPL			



Package name	Source	Package Description	Package License	Encryption types	Encryption Max Key Length	Comment
libnetfilter_cthelper	libnetfilter_cthelper	"This library provides the infrastructure for the user-space helper infrastructure available since the Linux kernel 3.6."	GPLv2			
python-discover	python-discover	"This is the test discovery mechanism and ``load_tests`` protocol for unittest backported from Python 2.7 to work with Python 2.4 or more recent (including Python 3)."	BSD-3-Clause			
python-pymod2pkg	python-pymod2pkg	"pymod2pkg is a simple python module for translating python module names to corresponding package names which is a common problem in the packaging world."	Apache-2.0			
python3	python3	"Python 3 is a new version of the language that is incompatible with the 2.x line of releases. The language is mostly the same but many details especially how built-in objects like dictionaries and strings work have changed considerably and a lot of deprecated features have finally been removed."	Python			
python-markupsafe	python-markupsafe	"A library for safe markup escaping."	BSD			
python-netaddr	python-netaddr	"A pure Python network address representation and manipulation library. netaddr provides a Pythonic way of working with :- - IPv4 and IPv6 addresses and subnets - MAC addresses OUI and IAB identifiers IEEE EUI-64 identifiers - arbitrary (non-aligned) IP address ranges and IP address sets - various non-CIDR IP range formats such as nmap and glob-style formats Included are routines for :- - generating sorting and summarizing IP addresses and networks - performing easy conversions between address notations and formats - detecting parsing and formatting network address representations - performing set-based operations on groups of IP addresses and subnets - working with arbitrary IP address ranges and formats - accessing OUI and IAB organisational information published by IEEE - accessing IP address and block information published by IANA For details on the latest updates and changes see :- <a href="http://github.com/drkjam/netaddr/blob/rel-0.7.x/CHANGELOG">http://github.com/drkjam/netaddr/blob/rel-0.7.x/CHANGELOG</a> API documentation for the latest release is available here :- <a href="http://packages.python.org/netaddr/">http://packages.python.org/netaddr/</a> "	BSD			
pyOpenSSL	pyOpenSSL	"High-level wrapper around a subset of the OpenSSL library includes among others * SSL.Connection objects wrapping the methods of Python's portable sockets * Callbacks written in Python * Extensive error-handling mechanism mirroring OpenSSL's error codes"	ASL 2.0			
python2-django-formtools	python-django-formtools	"Django's "formtools" is a set of high-level abstractions for Django forms. Currently for form previews and multi-step forms."	BSD			
scapy	scapy	"Scapy is a powerful interactive packet manipulation program built on top of the Python interpreter. It can be used to forge or decode packets of a wide number of protocols send them over the wire capture them match requests and replies and much more."	GPLv2			
erlang-kernel	erlang	"Main erlang library."	ERPL			
uwsgi-plugin-sqlite3	uwsgi	"This package contains the sqlite3 plugin for uWSGI"	GPLv2 with exceptions			
python-twisted-debuginfo	python-twisted	"This package provides debug information for package python-twisted. Debug information is useful when developing applications that use this package or when debugging this package."	MIT			
openstack-swift-plugin-swift3	openstack-swift-plugin-swift3	"The swift3 plugin permits accessing Openstack Swift via the Amazon S3 API."	ASL 2.0			
python-markupsafe-debuginfo	python-markupsafe	"This package provides debug information for package python-markupsafe. Debug information is useful when developing applications that use this package or when debugging this package."	BSD			
python-swiftclient	python-swiftclient	"Client library and command line utility for interacting with Openstack Object Storage API."	ASL 2.0			
python3-PyYAML	PyYAML	"YAML is a data serialization format designed for human readability and interaction with scripting languages. PyYAML is a YAML parser and emitter for Python. PyYAML features a complete YAML 1.1 parser Unicode support pickle support capable extension API and sensible error messages. PyYAML supports standard YAML tags and provides Python-specific tags that allow to represent an arbitrary Python object. PyYAML is applicable for a broad range of tasks from complex configuration files to object serialization and persistence."	MIT			
python2-sphinx-theme-alabaster	python-sphinx-theme-alabaster	"This theme is a modified "Kr" Sphinx theme from @kennethreitz (especially as used in his Requests project) which was itself originally based on @mitsuhiko's theme used for Flask & related projects."	BSD			

Package name	Source	Package Description	Package License	Encryption types	Encryption Max Key Length	Comment
python-networkx-doc	python-networkx	"Documentation for networkx"	BSD			
rubygem-popen4-doc	rubygem-popen4	"Documentation for rubygem-popen4"	GPLv2 or Ruby			
erlang-cosTime	erlang	"Orber OMG Timer and TimerEvent Service."	ERPL			
python34-libs	python34	"This package contains files used to embed Python 3 into applications."	Python			
python3-greenlet-devel	python-greenlet	"This package contains header files required for C modules development."	MIT			
rubygem-atomic	rubygem-atomic	"An atomic reference implementation for JRuby Rubinius and MRI."	ASL 2.0			
python-testresources	python-testresources	"testresources: extensions to python unittest to allow declarative use of resources by test cases."	ASL 2.0 and BSD and GPLv2+			
python-cheetah-debuginfo	python-cheetah	"This package provides debug information for package python-cheetah. Debug information is useful when developing applications that use this package or when debugging this package."	MIT			
openstack-ceilometer-notification	openstack-ceilometer	"OpenStack ceilometer provides services to measure and collect metrics from OpenStack components. This package contains the ceilometer notification agent which pushes metrics to the collector service from the various OpenStack services."	ASL 2.0			
rubygem-amq-protocol	rubygem-amq-protocol	"amq-protocol is an AMQP 0.9.1 serialization library for Ruby. It is not a client: the library only handles serialization and deserialization."	MIT			
python-d2to1	python-d2to1	"d2to1 allows using distutils2-like setup.cfg files for a package's metadata with a distribute/setuptools setup.py script. It works by providing a distutils2-formatted setup.cfg file containing all of a package's metadata and a very minimal setup.py which will slurp its arguments from the setup.cfg."	BSD			
mysql-wsrep-server-5.6	MySQL	"The MySQL(TM) software delivers a very fast multi-threaded multi-user and robust SQL (Structured Query Language) database server. MySQL Server is intended for mission-critical heavy-load production systems as well as for embedding into mass-deployed software. MySQL is a trademark of Oracle and/or its affiliates The MySQL software has Dual Licensing which means you can use the MySQL software free of charge under the GNU General Public License ( <a href="http://www.gnu.org/licenses/">http://www.gnu.org/licenses/</a> ). You can also purchase commercial MySQL licenses from Oracle and/or its affiliates if you do not wish to be bound by the terms of the GPL. See the chapter "Licensing and Support" in the manual for further info. The MySQL web site ( <a href="http://www.mysql.com/">http://www.mysql.com/</a> ) provides the latest news and information about the MySQL software. Also please see the documentation and the manual for more information. This package includes the MySQL server binary as well as related utilities to run and administer a MySQL server. Built with wsrep patch 25.10. If you want to access and work with the database you have to install package "mysql-wsrep-client-5.6" as well!"	Copyright (c) 2000			
python2-txaio	python-txaio	"Helper library for writing code that runs unmodified on both Twisted and asyncio."	MIT			
librbd1-devel	ceph	"This package contains libraries and headers needed to develop programs that use RADOS block device."	LGPL-2.0			
gperftools	gperftools	"Perf Tools is a collection of performance analysis tools including a high-performance multi-threaded malloc() implementation that works particularly well with threads and STL a thread-friendly heap-checker a heap profiler and a cpu-profiler. This is a metapackage which pulls in all of the gperftools (and pprof) binaries libraries and development headers so that you can use them."	BSD			
python3-debian	python-debian	"This package provides Python modules that abstract many formats of Debian related files. Currently handled are: * Debtags information (debian.debtags module) * debian/changelog (debian.changelog module) * Packages files pdiffs (debian.debian_support module) * Control files of single or multiple RFC822-style paragraphs e.g. debian/control .changes .dsc Packages Sources Release etc. (debian.deb822 module) * Raw .deb and .ar files with (read-only) access to contained files and meta-information"	GPLv2+ and GPLv3+			
python-pyasn1	python-pyasn1	"This is an implementation of ASN.1 types and codecs in the Python programming language."	BSD			
numpy-f2py	numpy	"This package includes a version of f2py that works properly with NumPy."	BSD and Python			
python3-urllib3	python-urllib3	"Python3 HTTP module with connection pooling and file POST abilities."	MIT			
erlang-ic	erlang	"IDL compiler."	ERPL			
qpid-proton-c	qpid-proton	"C libraries for Qpid Proton."	ASL 2.0			
web-assets-httpd	web-assets	"Web Assets aliases for the Apache HTTP daemon."	MIT			

Package name	Source	Package Description	Package License	Encryption types	Encryption Max Key Length	Comment
python2-hacking	python-hacking	"OpenStack Hacking Guideline Enforcement"	ASL 2.0			
rbd-fuse	ceph	"FUSE based client to map Ceph rbd images to files"	GPL-2.0			
fuel-upgrade	fuel-upgrade	"Fuel-upgrade package"	Apache			
mongodb-server	mongodb	"This package provides the mongo server software mongo sharding server software default configuration files and init scripts."	AGPLv3 and zlib and ASL 2.0			
erlang-sd_notify-debuginfo	erlang-sd_notify	"This package provides debug information for package erlang-sd_notify. Debug information is useful when developing applications that use this package or when debugging this package."	MIT			
python3-tornado-doc	python-tornado	"Tornado is an open source version of the scalable non-blocking web server and and tools. This package contains some example applications."	ASL 2.0			
uwsgi-plugin-geoip	uwsgi	"This package contains the geoip plugin for uWSGI"	GPLv2 with exceptions			
python-troveclient	python-troveclient	"This is a client for the Trove API. There's a Python API (the troveclient module) and a command-line script (trove). Each implements 100% (or less ;) ) of the Trove API."	ASL 2.0			
python-ldappool	python-ldappool	"A simple connector pool for python-ldap. The pool keeps LDAP connectors alive and let you reuse them drastically reducing the time spent to initiate a ldap connection. The pool has useful features like: - transparent re-connection on failures or server restarts - configurable pool size and connectors timeouts - configurable max lifetime for connectors - a context manager to simplify acquiring and releasing a connector"	MPLv1.1 and GPLv2+ and LGPLv2+			
python3-netaddr	python-netaddr	"A pure Python network address representation and manipulation library. netaddr provides a Pythonic way of working with :- - IPv4 and IPv6 addresses and subnets - MAC addresses OUI and IAB identifiers IEEE EUI-64 identifiers - arbitrary (non-aligned) IP address ranges and IP address sets - various non-CIDR IP range formats such as nmap and glob-style formats Included are routines for :- - generating sorting and summarizing IP addresses and networks - performing easy conversions between address notations and formats - detecting parsing and formatting network address representations - performing set-based operations on groups of IP addresses and subnets - working with arbitrary IP address ranges and formats - accessing OUI and IAB organisational information published by IEEE - accessing IP address and block information published by IANA For details on the latest updates and changes see :- <a href="http://github.com/drkjam/netaddr/blob/rel-0.7.x/CHANGELOG">http://github.com/drkjam/netaddr/blob/rel-0.7.x/CHANGELOG</a> API documentation for the latest release is available here :- <a href="http://packages.python.org/netaddr/">http://packages.python.org/netaddr/</a> "	BSD			
python-rabbit	python-rabbit	"Pyrabbit provides an intuitive easy way to work with the data that lives inside of RabbitMQ and manipulate the resources there."	MIT			
livecd-tools	livecd-tools	"Tools for generating live CDs on Fedora based systems including derived distributions such as RHEL CentOS and others. See <a href="http://fedoraproject.org/wiki/FedoraLiveCD">http://fedoraproject.org/wiki/FedoraLiveCD</a> for more details."	GPLv2			
python-wsaccel-debuginfo	python-wsaccel	"This package provides debug information for package python-wsaccel. Debug information is useful when developing applications that use this package or when debugging this package."	ASL 2.0			
python-versiontools	python-versiontools	"Smart replacement for plain tuple used in __version__"	LGPLv3			
rubygem-capybara	rubygem-capybara	"Capybara is an integration testing tool for rack based web applications. It simulates how a user would interact with a website."	MIT			
python-pillow-qt	python-pillow	"PIL image wrapper for Qt."	MIT			
ceph-radosgw	ceph	"This package is an S3 HTTP REST gateway for the RADOS object store. It is implemented as a FastCGI module using libfcgi and can be used in conjunction with any FastCGI capable web server."	GPL-2.0			
python-fysom	python-fysom	"UNKNOWN"	MIT			
python-neutron-tests	openstack-neutron	"Neutron provides an API to dynamically request and configure virtual networks. This package contains Neutron test files."	ASL 2.0			
python-testtools-doc	python-testtools	"This package contains HTML documentation for python-testtools."	MIT			
python-cliff-tablib	python-cliff-tablib	"cliff-tablib is a set of formatter extensions for producing JSON YAML and HTML output in programs created with the cliff framework."	ASL 2.0			
cluster-glue-libs	cluster-glue	"A collection of libraries that are useful for writing cluster managers such as Pacemaker."	GPL-2.0+ and LGPL-2.1+			
rubygem-rack-doc	rubygem-rack	"Documentation for rubygem-rack"	MIT and (Ruby or BSD) and BSD			

Package name	Source	Package Description	Package License	Encryption types	Encryption Max Key Length	Comment
rubygem-librarian-puppet-simple	rubygem-librarian-puppet-simple	"A simple consumer of Puppetfiles with NO dependency resolution that only supports github references and tarballs."	MIT			
rubygem-ffi-doc	rubygem-ffi	"This package contains documentation for rubygem-ffi."	BSD			
rubygem-mocha-doc	rubygem-mocha	"This package contains documentation for rubygem-mocha."	MIT or Ruby or BSD			
python-glance	openstack-glance	"OpenStack Image Service (code-named Glance) provides discovery registration and delivery services for virtual disk images. This package contains the glance Python library."	ASL 2.0			
erlang-stdlib	erlang	"The Erlang standard libraries."	ERPL			
rubygem-astute	rubygem-astute	"Deployment Orchestrator of Puppet via MCollective. Works as a library or from CLI."	Distributable			
python-webob	python-webob	"WebOb provides wrappers around the WSGI request environment and an object to help create WSGI responses. The objects map much of the specified behavior of HTTP including header parsing and accessors for other standard parts of the environment."	MIT			
python3-click	python-click	"click is a Python 3 package for creating beautiful command line interfaces in a composable way with as little amount of code as necessary. It's the "Command Line Interface Creation Kit". It's highly configurable but comes with good defaults out of the box."	BSD			
python3-pymongo-gridfs	python-pymongo	"GridFS is a storage specification for large objects in MongoDB. This package contains the python3 version of this module."	ASL 2.0 and MIT			
python-passlib	python-passlib	"Passlib is a password hashing library for Python 2 & 3 which provides cross-platform implementations of over 20 password hashing algorithms as well as a framework for managing existing password hashes. It's designed to be useful for a wide range of tasks from verifying a hash found in /etc/shadow to providing full-strength password hashing for multi-user application."	BSD and Beerware and Copyright only			
openstack-neutron-common	openstack-neutron	"Neutron provides an API to dynamically request and configure virtual networks. This package contains Neutron common files."	ASL 2.0			
openstack-ceilometer-ipmi	openstack-ceilometer	"OpenStack ceilometer provides services to measure and collect metrics from OpenStack components. This package contains the ipmi agent to be run on OpenStack nodes from which IPMI sensor data is to be collected directly by-passing Ironic's management of baremetal."	ASL 2.0			
python-bson	python-pymongo	"BSON is a binary-encoded serialization of JSON-like documents. BSON is designed to be lightweight traversable and efficient. BSON like JSON supports the embedding of objects and arrays within other objects and arrays."	ASL 2.0 and MIT			
python-whoosh	python-whoosh	"Whoosh is a fast featureful full-text indexing and searching library implemented in pure Python. Programmers can use it to easily add search functionality to their applications and websites. Every part of how Whoosh works can be extended or replaced to meet your needs exactly."	BSD			
postgresql	postgresql	"PostgreSQL is an advanced Object-Relational database management system (DBMS). The base postgresql package contains the client programs that you'll need to access a PostgreSQL DBMS server as well as HTML documentation for the whole system. These client programs can be located on the same machine as the PostgreSQL server or on a remote machine that accesses a PostgreSQL server over a network connection. The PostgreSQL server can be found in the postgresql-server sub-package."	PostgreSQL			
python3-devel	python3	"This package contains libraries and header files used to build applications with and native libraries for Python 3"	Python			
uwsgi-stats-pusher-socket	uwsgi	"This package contains the stats_pusher_socket plugin for uWSGI"	GPLv2 with exceptions			
python-pykmpip	python-pykmpip	"PyKMIP is a Python implementation of the Key Management Interoperability Protocol (KMIP). KMIP is a client/server communication protocol for the storage and maintenance of key certificate and secret objects. The standard is governed by the Organization for the Advancement of Structured Information Standards (OASIS). PyKMIP supports a subset of features in version 1.1 of the KMIP specification."	Apache License			
python-oslo-utils	python-oslo-utils	"The OpenStack Oslo Utility library. * Documentation: <a href="http://docs.openstack.org/developer/oslo.utils">http://docs.openstack.org/developer/oslo.utils</a> * Source: <a href="http://git.openstack.org/cgi/openstack/oslo.utils">http://git.openstack.org/cgi/openstack/oslo.utils</a> * Bugs: <a href="http://bugs.launchpad.net/oslo">http://bugs.launchpad.net/oslo</a> "	ASL 2.0			

Package name	Source	Package Description	Package License	Encryption types	Encryption Max Key Length	Comment
python-pyscss-debuginfo	python-pyscss	"This package provides debug information for package python-pyscss. Debug information is useful when developing applications that use this package or when debugging this package."	MIT			
python-zope-interface-debuginfo	python-zope-interface	"This package provides debug information for package python-zope-interface. Debug information is useful when developing applications that use this package or when debugging this package."	ZPLv2.1			
python-lesscpy	python-lesscpy	"A compiler written in python 3 for the lesscss language. For those of us not willing/able to have node.js installed in our environment. Not all features of lesscss are supported (yet). Some features wil probably never be supported (JavaScript evaluation)."	MIT			
python-pygments	python-pygments	"Pygments is a generic syntax highlighter for general use in all kinds of software such as forum systems wikis or other applications that need to prettify source code. Highlights are: * a wide range of common languages and markup formats is supported * special attention is paid to details that increase highlighting quality * support for new languages and formats are added easily; most languages use a simple regex-based lexing mechanism * a number of output formats is available among them HTML RTF LaTeX and ANSI sequences * it is usable as a command-line tool and as a library * ... and it highlights even Brainf*ck!"	BSD			
yaml-cpp-debuginfo	yaml-cpp	"This package provides debug information for package yaml-cpp. Debug information is useful when developing applications that use this package or when debugging this package."	MIT			
python-betamax	python-betamax	"Betamax is a VCR_ imitation for requests. This will make mocking out requests much easier."	ASL 2.0			
python-pycadf	python-pycadf	"DMTF Cloud Audit (CADF) data model"	ASL 2.0			
python-mox3	python-mox3	"Mox3 is an unofficial port of the Google mox framework ( <a href="http://code.google.com/p/pymox/">http://code.google.com/p/pymox/</a> ) to Python 3. It was meant to be as compatible with mox as possible but small enhancements have been made. The library was tested on Python version 3.2 2.7 and 2.6."	Apache-2.0			
roboto-fontface-common	python-XStatic-roboto-fontface	"Common roboto-fontface static content (font CSS and SCSS)"	ASL 2.0			
python-lz4-debuginfo	python-lz4	"This package provides debug information for package python-lz4. Debug information is useful when developing applications that use this package or when debugging this package."	BSD			
ceph-deploy	ceph-deploy	"An easy to use admin tool for deploy ceph storage clusters."	MIT			
leveldb-devel	leveldb	"Additional header files for development with leveldb."	BSD			
openstack-nova-novncproxy	openstack-nova	"OpenStack Compute (codename Nova) is open source software designed to provision and manage large networks of virtual machines creating a redundant and scalable cloud computing platform. It gives you the software control panels and APIs required to orchestrate a cloud including running instances managing networks and controlling access through users and projects. OpenStack Compute strives to be both hardware and hypervisor agnostic currently supporting a variety of standard hardware configurations and seven major hypervisors. This package contains the Nova noVNC Proxy service that can proxy VNC traffic over browser websockets connections."	ASL 2.0			
uwsgi-logger-systemd	uwsgi	"This package contains the SystemD Journal logger plugin for uWSGI"	GPLv2 with exceptions			
python-semantic_version-doc	python-semantic_version	"Documentation for python-semantic_version"	BSD			
python-ipaddress	python-ipaddress	"ipaddress provides the capabilities to create manipulate and operate on IPv4 and IPv6 addresses and networks. The functions and classes in this module make it straightforward to handle various tasks related to IP addresses including checking whether or not two hosts are on the same subnet iterating over all hosts in a particular subnet checking whether or not a string represents a valid IP address or network definition and so on."	Python			
python-neutron-fwaas-tests	openstack-neutron-fwaas	"This is a FWaaS service plugin for Openstack Neutron (Networking) service. This package contains Neutron FWaaS test files."	ASL 2.0			
python-peewee	python-peewee	"A small expressive ORM written in python with built-in support for sqlite mysql and postgresql and special extensions like hstore. For flask integration including an admin interface and RESTful API check out flask-peewee."	MIT			

Package name	Source	Package Description	Package License	Encryption types	Encryption Max Key Length	Comment
python-bintrees	python-bintrees	"This Python package provides Binary- RedBlack- and AVL-Trees written in Python and Cython/C. This Classes are much slower than the built-in *dict* class but all iterators/generators yielding data in sorted key order. Trees can be uses as drop in replacement for *dicts* in most cases."	MIT			
python3-editor	python-editor	"An python module which provides a convenient example."	ASL 2.0			
ruby-augeas-debuginfo	ruby-augeas	"This package provides debug information for package ruby-augeas. Debug information is useful when developing applications that use this package or when debugging this package."	LGPLv2+			
uwsgi-logger-crypto	uwsgi	"This package contains the logcrypto logger plugin for uWSGI"	GPLv2 with exceptions			
yaml-cpp-devel	yaml-cpp	"The yaml-cpp-devel package contains libraries and header files for developing applications that use yaml-cpp."	MIT			
openstack-heat-engine	openstack-heat	"OpenStack API for starting CloudFormation templates on OpenStack"	ASL 2.0			
python-mako-doc	python-mako	"Mako is a template library written in Python. It provides a familiar non-XML syntax which compiles into Python modules for maximum performance. Mako's syntax and API borrows from the best ideas of many others including Django templates Cheetah Myghty and Genshi. Conceptually Mako is an embedded Python (i.e. Python Server Page) language which refines the familiar ideas of componentized layout and inheritance to produce one of the most straightforward and flexible models available while also maintaining close ties to Python calling and scoping semantics. This package contains documentation in text and HTML formats."	(MIT and Python) and (BSD or GPLv2)			
openstack-heat-api-cfn	openstack-heat	"AWS CloudFormation-compatible API to the Heat Engine"	ASL 2.0			
uwsgi-plugin-notfound	uwsgi	"This package contains the notfound plugin for uWSGI"	GPLv2 with exceptions			
python3-jsonpatch	python-jsonpatch	"Library to apply JSON Patches according to RFC 6902 - Python 3 build."	BSD			
rubygem-docile	rubygem-docile	"Docile turns any Ruby object into a DSL. Especially useful with the Builder pattern."	MIT			
python-openstackdocstheme	python-openstackdocstheme	"Theme and extension support for Sphinx documentation that is published to docs.openstack.org. Intended for use by OpenStack projects."	ASL 2.0			
python-oslo-reports	python-oslo-reports	"The Oslo project intends to produce a python library containing infrastructure code shared by OpenStack projects. The APIs provided by the project should be high quality stable consistent and generally useful. OpenStack library for creating Guru Meditation Reports and other reports."	ASL 2.0			
uwsgi-docs	uwsgi	"This package contains the documentation files for uWSGI"	GPLv2 with exceptions			
python3-waitress	python-waitress	"Waitress is meant to be a production-quality pure-Python WSGI server with very acceptable performance. It has no dependencies except ones which live in the Python standard library. It runs on CPython on Unix and Windows under Python 2.6+ and Python 3.2. It is also known to run on PyPy 1.6.0 on UNIX. It supports HTTP/1.0 and HTTP/1.1. For more information see /usr/share/doc/python-waitress-0.8.9/docs or <a href="http://docs.pylonsproject.org/projects/waitress/en/latest/">http://docs.pylonsproject.org/projects/waitress/en/latest/</a> ."	ZPLv2.1			
fabric	fabric	"Fabric is a simple Pythonic remote deployment tool which is designed to upload files to and run shell commands on a number of servers in parallel or serially."	BSD			
uwsgi-plugin-common	uwsgi	"This package contains the most common plugins used with uWSGI. The plugins included in this package are: cache CGI RPC uGreen"	GPLv2 with exceptions			
rubygem-httpclient-doc	rubygem-httpclient	"Documentation for rubygem-httpclient"	(Ruby or BSD) and Public Domain			
network-checker-debuginfo	network-checker	"This package provides debug information for package network-checker. Debug information is useful when developing applications that use this package or when debugging this package."	GPLv2			
python3-ujson	python-ujson	"UltraJSON is an ultra fast JSON encoder and decoder written in pure C with bindings for Python"	BSD			
uwsgi-router-http	uwsgi	"This package contains the http router plugin for uWSGI"	GPLv2 with exceptions			
python3-jsonpath-rw-ext	python-jsonpath-rw-ext	"Extensions for JSONPath RW"	ASL 2.0			
mysql-wsrep-test-5.6	MySQL	"This package contains the MySQL regression test suite. For a description of MySQL see the base MySQL RPM or <a href="http://www.mysql.com/">http://www.mysql.com/</a> "	Copyright (c) 2000			
python-psutil-debuginfo	python-psutil	"This package provides debug information for package python-psutil. Debug information is useful when developing applications that use this package or when debugging this package."	BSD			

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python-pillow-tk	python-pillow	"Tk interface for python-pillow."	MIT			
openstack-swift-doc	openstack-swift	"OpenStack Object Storage (Swift) aggregates commodity servers to work together in clusters for reliable redundant and large-scale storage of static objects. This package contains documentation files for openstack-swift."	ASL 2.0			
erlang-erl_docgen	erlang	"A utility used to generate erlang HTML documentation."	ERPL			
python-meld3-debuginfo	python-meld3	"This package provides debug information for package python-meld3. Debug information is useful when developing applications that use this package or when debugging this package."	ZPLv2.1			
python-rados	ceph	"This package contains Python libraries for interacting with Ceph's RADOS object store."	LGPL-2.0			
openstack-sahara-common	openstack-sahara	"OpenStack data processing cluster as a service - library The Sahara project provides a simple means to provision a data-intensive application cluster (Hadoop or Spark) on top of OpenStack. It's the ex Savanna project renamed due to potential trademark issues. This package contains scripts config and dependencies shared between all the OpenStack Sahara services."	ASL 2.0			
python2-autobahn	python-autobahn	"Autobahn a networking library that is part of the Autobahn project and provides implementations of * The WebSocket Protocol <a href="http://tools.ietf.org/html/rfc6455">http://tools.ietf.org/html/rfc6455</a> * The Web Application Messaging Protocol (WAMP) <a href="http://wamp.ws">http://wamp.ws</a> for Twisted and asyncio on Python 2 & 3 and for writing servers and clients."	MIT			
send2syslog	send2syslog	"Simplify sending of messages to syslog system"	Apache			
python-oslo-vmware-doc	python-oslo-vmware	"Documentation for OpenStack common VMware library."	ASL 2.0			
python-pika-pool	python-pika-pool	""	BSD			
python-neutron-lib-tests	python-neutron-lib	"OpenStack Neutron library shared by all Neutron sub-projects. This package contains the Neutron library test files."	ASL 2.0			
cluster-glue-libs-devel	cluster-glue	"Headers and shared libraries for a useful for writing cluster managers such as Pacemaker."	GPL-2.0+ and LGPL-2.1+			
python-warlock	python-warlock	"Build self-validating python objects using JSON schemas"	ASL 2.0			
python-imaging-debuginfo	python-imaging	"This package provides debug information for package python-imaging. Debug information is useful when developing applications that use this package or when debugging this package."	MIT			
atop	atop	"An advanced interactive monitor for Linux-systems to view the load on system-level and process-level. The command atop has some major advantages compared to other performance-monitors: - Resource consumption by all processes - Utilization of all relevant resources - Permanent logging of resource utilization - Highlight critical resources - Watch activity only - Watch deviations only - Accumulated process activity per user - Accumulated process activity per program For more informations: <a href="http://www.atcomputing.nl/Tools/atop">http://www.atcomputing.nl/Tools/atop</a> The package does not make use of the patches available at <a href="http://www.atcomputing.nl/Tools/atop/kernpatch.html">http://www.atcomputing.nl/Tools/atop/kernpatch.html</a> "	GPLv2+			
python3-httplib2	python-httplib2	"A comprehensive HTTP client library that supports many features left out of other HTTP libraries."	MIT			
openjpeg2	openjpeg2	"The OpenJPEG library is an open-source JPEG 2000 library developed in order to promote the use of JPEG 2000. This package contains * JPEG 2000 codec compliant with the Part 1 of the standard (Class-1 Profile-1 compliance). * JP2 (JPEG 2000 standard Part 2 - Handling of JP2 boxes and extended multiple component transforms for multispectral and hyperspectral imagery)"	BSD and MIT			
python-oslo-policy-doc	python-oslo-policy	"Documentation for the Oslo Policy library."	ASL 2.0			
python-nagiosplugin	python-nagiosplugin	"nagiosplugin is a Python class library which helps writing Nagios (or Icinga) compatible plugins easily in Python. It cares for much of the boilerplate code and default logic commonly found in Nagios checks including: - Nagios 3 Plugin API compliant parameters and output formatting - Full Nagios range syntax support - Automatic threshold checking - Multiple independent measures - Custom status line to communicate the main point quickly - Long output and performance data - Timeout handling - Persistent "cookies" to retain state information between check runs - Resume log file processing at the point where the last run left - No dependencies beyond the Python standard library."	ZPLv2.1			

Package name	Source	Package Description	Package License	Encryption types	Encryption Max Key Length	Comment
python-glance-store-doc	python-glance-store	"Documentation for OpenStack Image Service Store Library."	Apache 2.0			
fuel-openstack-metadata	fuel-nailgun	"This package currently installs just a single file openstack.yaml"	GPLv2			
rubygem-cstruct	rubygem-cstruct	"Ruby gem cstruct"	Distributable			
solar	solar	"Solar is a resource manager and orchestration engine for distributed systems."	Apache			
rubygem-stomp	rubygem-stomp	"Ruby client for the Stomp messaging protocol"	ASL 2.0			
rubygem-mixlib-config-doc	rubygem-mixlib-config	"This package contains documentation for rubygem-mixlib-config."	Distributable			
rubygem-libyajl2	rubygem-libyajl2	"Installs a vendored copy of libyajl2 for distributions which lack it."	Distributable			
python-lz4	python-lz4	"Python2 bindings for the lz4 compression library."	BSD			
python-cffi-doc	python-cffi	"Documentation for CFFI the Foreign Function Interface for Python."	MIT			
fuel-octane	fuel-octane	"Project is aimed to provide tools to upgrade the Fuel Admin node and OpenStack installations to version 9.0."	Apache			
erlang-ose	erlang	"A module for interacting with Enea OSE."	ERPL			
mdi-common	python-XStatic-mdi	"Common mdi static content (CSS and SCSS)"	OFL			
uwsgi-stats-pusher-zabbix	uwsgi	"This package contains the zabbix plugin for uWSGI"	GPLv2 with exceptions			
python3-wsme	python-wsme	"Web Services Made Easy simplifies the implementation of multiple protocol REST web services by providing simple yet powerful typing which removes the need to directly manipulate the request and the response objects."	MIT			
cobbler-web	cobbler	"Web interface for Cobbler that allows visiting http://server/cobbler_web to configure the install server."	GPLv2+			
openstack-swift	openstack-swift	"OpenStack Object Storage (Swift) aggregates commodity servers to work together in clusters for reliable redundant and large-scale storage of static objects. Objects are written to multiple hardware devices in the data center with the OpenStack software responsible for ensuring data replication and integrity across the cluster. Storage clusters can scale horizontally by adding new nodes which are automatically configured. Should a node fail OpenStack works to replicate its content from other active nodes. Because OpenStack uses software logic to ensure data replication and distribution across different devices inexpensive commodity hard drives and servers can be used in lieu of more expensive equipment."	ASL 2.0			
numpy	numpy	"NumPy is a general-purpose array-processing package designed to efficiently manipulate large multi-dimensional arrays of arbitrary records without sacrificing too much speed for small multi-dimensional arrays. NumPy is built on the Numeric code base and adds features introduced by numarray as well as an extended C-API and the ability to create arrays of arbitrary type. There are also basic facilities for discrete fourier transform basic linear algebra and random number generation. Also included in this package is a version of f2py that works properly with NumPy."	BSD and Python			
python3-linecache2	python-linecache2	"A backport of linecache to older supported Pythons."	Python			
erlang-mnesia	erlang	"A heavy duty real-time distributed database."	ERPL			
rubygem-redcarpet-doc	rubygem-redcarpet	"Documentation for rubygem-redcarpet"	ISC			
python-jsonrpclib	python-jsonrpclib	"This project is an implementation of the JSON-RPC v2.0 specification (backwards-compatible) as a client library."	ASL 2.0			
rubygem-httpclient	rubygem-httpclient	"an interface to HTTP Client for the ruby language"	(Ruby or BSD) and Public Domain			
python-service-identity	python-service-identity	"Service Identity Verification for pyOpenSSL TL;DR: Use this package if you use pyOpenSSL and don?t want to be MITMed. service_identity aspires to give you all the tools you need for verifying whether a certificate is valid for the intended purposes. In the simplest case this means host name verification. However service_identity implements RFC 6125 fully and plans to add other relevant RFCs too."	MIT			
uwsgi-plugin-pty	uwsgi	"This package contains the pty plugin for uWSGI"	GPLv2 with exceptions			
python-webtest-doc	python-webtest	"This package contains documentation files for python-webtest."	MIT			



Package name	Source	Package Description	Package License	Encryption types	Encryption Max Key Length	Comment
python-oslo-db-doc	python-oslo-db	"Documentation for the Oslo database handling library."	ASL 2.0			
rubygem-bigdecimal	ruby	"Ruby provides built-in support for arbitrary precision integer arithmetic. For example: 42**13 -> 1265437718438866624512. BigDecimal provides similar support for very large or very accurate floating point numbers. Decimal arithmetic is also useful for general calculation because it provides the correct answers people expect?whereas normal binary floating point arithmetic often introduces subtle errors because of the conversion between base 10 and base 2."	GPL+ or Artistic			
uwsgi-transformation-tofile	uwsgi	"This package contains the transformation_tofile plugin for uWSGI"	GPLv2 with exceptions			
librados2-devel	ceph	"This package contains libraries and headers needed to develop programs that use RADOS object store."	LGPL-2.0			
openstack-ironic-conductor	openstack-ironic	"Ironic Conductor for management and provisioning of physical machines"	ASL 2.0			
python-daemon	python-daemon	"This library implements the well-behaved daemon specification of PEP 3143 "Standard daemon process library". This is the python2 version of the library."	ASL2.0			
babel-doc	babel	"Documentation for Babel"	BSD			
zeromq-debuginfo	zeromq	"This package provides debug information for package zeromq. Debug information is useful when developing applications that use this package or when debugging this package."	LGPLv3+			
rubygem-mime-types-doc	rubygem-mime-types	"This package contains documentation for rubygem-mime-types."	GPL+ or Ruby or Artistic			
uwsgi-transformation-chunked	uwsgi	"This package contains the transformation_chunked plugin for uWSGI"	GPLv2 with exceptions			
Cython	Cython	"This is a development version of Pyrex a language for writing Python extension modules. For more info see: Doc/About.html for a description of the language INSTALL.txt for installation instructions USAGE.txt for usage instructions Demos for usage examples"	Python			
openstack-neutron-openvswitch	openstack-neutron	"Neutron provides an API to dynamically request and configure virtual networks. This package contains the Neutron plugin that implements virtual networks using Open vSwitch."	ASL 2.0			
python-castellan-doc	python-castellan	"Documentation for castellan"	ASL 2.0			
supervisor	supervisor	"The supervisor is a client/server system that allows its users to control a number of processes on UNIX-like operating systems."	ZPLv2.1 and BSD and MIT			
python3-whoosh	python-whoosh	"Whoosh is a fast featureful full-text indexing and searching library implemented in pure Python. Programmers can use it to easily add search functionality to their applications and websites. Every part of how Whoosh works can be extended or replaced to meet your needs exactly."	BSD			
openstack-neutron-doc	openstack-neutron	"Documentation for Openstack Neutron."	ASL 2.0			
python-novaclient	python-novaclient	"This is a client for the OpenStack Nova API. There's a Python API (the novaclient module) and a command-line script (nova). Each implements 100% of the OpenStack Nova API."	ASL 2.0			
python-cssselect	python-cssselect	"Cssselect parses CSS3 Selectors and translates them to XPath 1.0 expressions. Such expressions can be used in lxml or another XPath engine to find the matching elements in an XML or HTML document."	BSD			
openstack-swift-proxy	openstack-swift	"OpenStack Object Storage (Swift) aggregates commodity servers to work together in clusters for reliable redundant and large-scale storage of static objects. This package contains the openstack-swift proxy server."	ASL 2.0			
python2-openstacksdk	python-openstacksdk	"A collection of libraries for building applications to work with OpenStack clouds."	ASL 2.0			
openvswitch-devel	openvswitch	"This provides static library libopenvswitch.a and the openvswitch header files needed to build an external application."	ASL 2.0	lex	128	
openvswitch-devel	openvswitch	"This provides static library libopenvswitch.a and the openvswitch header files needed to build an external application."	ASL 2.0	crypt	65	
openvswitch-devel	openvswitch	"This provides static library libopenvswitch.a and the openvswitch header files needed to build an external application."	ASL 2.0	aes	256	
openvswitch-devel	openvswitch	"This provides static library libopenvswitch.a and the openvswitch header files needed to build an external application."	ASL 2.0	sha	512	

Package name	Source	Package Description	Package License	Encryption types	Encryption Max Key Length	Comment
openvswitch-devel	openvswitch	"This provides static library libopenvswitch.a and the openvswitch header files needed to build an external application."	ASL 2.0	md5	128	
python-django-bash-completion	python-django	"This package contains the bash completion files form Django high-level Python Web framework."	BSD			
python-unittest2	python-unittest2	"unittest2 is a backport of the new features added to the unittest testing framework in Python 2.7 and onwards. It is tested to run on Python 2.6 2.7 3.2 3.3 3.4 and pypy."	BSD			
python-taskflow	python-taskflow	"A library to do [jobs tasks flows] in a HA manner using different backends to be used with OpenStack projects."	ASL 2.0			
cobbler	cobbler	"Cobbler is a network install server. Cobbler supports PXE ISO virtualized installs and re-installing existing Linux machines. The last two modes use a helper tool 'koan' that integrates with cobbler. There is also a web interface 'cobbler-web'. Cobbler's advanced features include importing distributions from DVDs and rsync mirrors kickstart templating integrated yum mirroring and built-in DHCP/DNS Management. Cobbler has a XMLRPC API for integration with other applications."	GPLv2+			
erlang-sd_notify	erlang-sd_notify	"Erlang interface to systemd notify subsystem."	MIT			
openstack-macros	openstack-macros	"This package provides OpenStack RPM macros. You need it to build OpenStack packages."	Apache-2.0			
python-pymemcache	python-pymemcache	"A comprehensive fast pure-Python memcached client. pymemcache supports the following features: Complete implementation of the memcached text protocol. Configurable timeouts for socket connect and send/recv calls. Access to the "noreply" flag which can significantly increase the speed of writes. Flexible simple approach to serialization and deserialization. The (optional) ability to treat network and memcached errors as cache misses."	Apache			
python-mock	python-mock	"Mock is a Python module that provides a core mock class. It removes the need to create a host of stubs throughout your test suite. After performing an action you can make assertions about which methods / attributes were used and arguments they were called with. You can also specify return values and set needed attributes in the normal way."	BSD			
ami-creator	ami-creator	"A simple tool based on python-imgcreate to create Fedora/Red Hat style images that can be used as an AMI in EC2. Takes a kickstart config like the rest of livecd-creator etc and spits out a disk image file that's suitable to upload as an s3 ami. To do the upload right now you'll want to run something like ec2-bundle-image ec2-upload-bundle ec2-register after having created your base image file. Tested with the following as guests: * CentOS 5.5 * Fedora 14 See the configs/ directory for example configs that work for each of these."	GPL			
python-paramiko	python-paramiko	" Paramiko (a combination of the esperanto words for "paranoid" and "friend") is a module for python 2.3 or greater that implements the SSH2 protocol for secure (encrypted and authenticated) connections to remote machines. Unlike SSL (aka TLS) the SSH2 protocol does not require heirarchical certificates signed by a powerful central authority. You may know SSH2 as the protocol that replaced telnet and rsh for secure access to remote shells but the protocol also includes the ability to open arbitrary channels to remote services across an encrypted tunnel. (This is how sftp works for example.)"	LGPLv2+	rsa	unlimited	typically <=8192
python-six	python-six	"python-six provides simple utilities for wrapping over differences between Python 2 and Python 3. This is the Python 2 build of the module."	MIT			
uwsgi-plugin-php	uwsgi	"This package contains the PHP plugin for uWSGI"	GPLv2 with exceptions			
leveldb-debuginfo	leveldb	"This package provides debug information for package leveldb. Debug information is useful when developing applications that use this package or when debugging this package."	BSD			
openstack-neutron-linuxbridge	openstack-neutron	"Neutron provides an API to dynamically request and configure virtual networks. This package contains the Neutron agent that implements virtual networks using VLAN or VXLAN using Linuxbridge technology."	ASL 2.0			
lrzip-debuginfo	lrzip	"This package provides debug information for package lrzip. Debug information is useful when developing applications that use this package or when debugging this package."	GPLv2+			
os-collect-config	os-collect-config	"Service to collect openstack heat metadata."	ASL 2.0			

Package name	Source	Package Description	Package License	Encryption types	Encryption Max Key Length	Comment
python-mistralclient	python-mistralclient	"System package - python-mistralclient Python package - python-mistralclient Python client for Mistral REST API. Includes python library for Mistral API and Command Line Interface (CLI) library."	Apache License			
rubygem-fakefs-doc	rubygem-fakefs	"Documentation for rubygem-fakefs."	MIT			
python-txaio-doc	python-txaio	"Helper library for writing code that runs unmodified on both Twisted and asyncio. Documentation in html format."	MIT			
uwsgi-debuginfo	uwsgi	"This package provides debug information for package uwsgi. Debug information is useful when developing applications that use this package or when debugging this package."	GPLv2 with exceptions			
openvswitch-debuginfo	openvswitch	"This package provides debug information for package openvswitch. Debug information is useful when developing applications that use this package or when debugging this package."	ASL 2.0 and LGPLv2+ and SISSL	lex	128	
openvswitch-debuginfo	openvswitch	"This package provides debug information for package openvswitch. Debug information is useful when developing applications that use this package or when debugging this package."	ASL 2.0 and LGPLv2+ and SISSL	crypt	65	
openvswitch-debuginfo	openvswitch	"This package provides debug information for package openvswitch. Debug information is useful when developing applications that use this package or when debugging this package."	ASL 2.0 and LGPLv2+ and SISSL	aes	256	
openvswitch-debuginfo	openvswitch	"This package provides debug information for package openvswitch. Debug information is useful when developing applications that use this package or when debugging this package."	ASL 2.0 and LGPLv2+ and SISSL	sha	512	
openvswitch-debuginfo	openvswitch	"This package provides debug information for package openvswitch. Debug information is useful when developing applications that use this package or when debugging this package."	ASL 2.0 and LGPLv2+ and SISSL	md5	128	
uwsgi-plugin-airbrake	uwsgi	"This package contains the airbrake plugin for uWSGI"	GPLv2 with exceptions			
python-oslo-rootwrap	python-oslo-rootwrap	"The Oslo Rootwrap allows fine filtering of shell commands to run as `root` from OpenStack services. Unlike other Oslo deliverables it should <b>not</b> be used as a Python library but called as a separate process through the `oslo-rootwrap` command: `sudo oslo-rootwrap ROOTWRAP_CONFIG_COMMAND_LINE`"	ASL 2.0			
python-cryptography	python-cryptography	"cryptography is a package designed to expose cryptographic primitives and recipes to Python developers."	ASL 2.0 or BSD			
dpkg-dev	dpkg	"This package provides the development tools (including dpkg-source). Required to unpack build and upload Debian source packages"	GPLv2 and GPLv2+ and LGPLv2+ and Public Domain and BSD			
python3-alembic	python-alembic	"Alembic is a new database migrations tool written by the author of SQLAlchemy. A migrations tool offers the following functionality: * Can emit ALTER statements to a database in order to change the structure of tables and other constructs. * Provides a system whereby "migration scripts" may be constructed; each script indicates a particular series of steps that can "upgrade" a target database to a new version and optionally a series of steps that can "downgrade" similarly doing the same steps in reverse. * Allows the scripts to execute in some sequential manner. Documentation and status of Alembic is at <a href="http://readthedocs.org/docs/alembic/">http://readthedocs.org/docs/alembic/</a> "	MIT			
python3-zope-interface	python-zope-interface	"Interfaces are a mechanism for labeling objects as conforming to a given API or contract. This is a separate distribution of the zope.interface package used in Zope 3."	ZPLv2.1			
libnetfilter_cthelper-devel	libnetfilter_cthelper	"The libnetfilter_cthelper-devel package contains libraries and header files for developing applications that use libnetfilter_cthelper."	GPLv2			
python-coverage-debuginfo	python-coverage	"This package provides debug information for package python-coverage. Debug information is useful when developing applications that use this package or when debugging this package."	BSD and (MIT or GPLv2)			
bakefile	bakefile	"Bakefile is cross-platform cross-compiler native makefiles generator. It takes compiler-independent description of build tasks as input and generates native makefile (autoconf's Makefile.in Visual C++ project bcc makefile etc.)"	MIT			
openstack-heat-api	openstack-heat	"OpenStack-native ReST API to the Heat Engine"	ASL 2.0			
fuel-mirror	fuel-mirror	"Provides two commands fuel-mirror and fuel-createmirror. Second one is for backward compatibility with the previous generation of the utility. These commands could be used to create local copies of MOS and upstream deb and rpm repositories."	GPLv2			
erlang-otp_mibs	erlang	"SNMP management information base for Erlang/OTP nodes."	ERPL			

Package name	Source	Package Description	Package License	Encryption types	Encryption Max Key Length	Comment
librbd1	ceph	"RBD is a block device striped across multiple distributed objects in RADOS a reliable autonomic distributed object storage cluster developed as part of the Ceph distributed storage system. This is a shared library allowing applications to manage these block devices."	LGPL-2.0			
mongodb	mongodb	"Mongo (from "humongous") is a high-performance open source schema-free document-oriented database. MongoDB is written in C++ and offers the following features: * Collection oriented storage: easy storage of object/JSON-style data * Dynamic queries * Full index support including on inner objects and embedded arrays * Query profiling * Replication and fail-over support * Efficient storage of binary data including large objects (e.g. photos and videos) * Auto-sharding for cloud-level scalability (currently in early alpha) * Commercial Support Available A key goal of MongoDB is to bridge the gap between key/value stores (which are fast and highly scalable) and traditional RDBMS systems (which are deep in functionality)."	AGPLv3 and zlib and ASL 2.0			
python-ceph-compat	ceph	"This is a compatibility package to accommodate python-ceph split into python-rados python-rbd and python-cephfs. Packages still depending on python-ceph should be fixed to depend on python-rados python-rbd or python-cephfs instead."	LGPL-2.0			
rubYGem-dalli	rubYGem-dalli	"High performance memcached client for Ruby"	MIT			
python-requests	python-requests	"Most existing Python modules for sending HTTP requests are extremely verbose and cumbersome. Python?s built-in urllib2 module provides most of the HTTP capabilities you should need but the API is thoroughly broken. This library is designed to make HTTP requests easy for developers."	ASL 2.0			
python-cheetah	python-cheetah	"Cheetah is an open source template engine and code generation tool written in Python. It can be used standalone or combined with other tools and frameworks. Web development is its principal use but Cheetah is very flexible and is also being used to generate C++ code Java SQL form emails and even Python code."	MIT			
python-dns	python-dns	"dnspython is a DNS toolkit for Python. It supports almost all record types. It can be used for queries zone transfers and dynamic updates. It supports TSIG authenticated messages and EDNS0. dnspython provides both high and low level access to DNS. The high level classes perform queries for data of a given name type and class and return an answer set. The low level classes allow direct manipulation of DNS zones messages names and records."	MIT			
python3-extras	python-extras	"extras is a set of extensions to the Python standard library originally written to make the code within testtools cleaner but now split out for general use outside of a testing context."	MIT			
python-pint	python-pint	"Pint is Python module/package to define operate and manipulate physical quantities: the product of a numerical value and a unit of measurement. It allows arithmetic operations between them and conversions from and to different units. It is distributed with a comprehensive list of physical units prefixes and constants."	BSD			
ruby-augeas	ruby-augeas	"Ruby bindings for augeas."	LGPLv2+			
emacs-erlang	erlang	"Erlang mode for GNU Emacs."	ERPL			
python-simplejson	python-simplejson	"simplejson is a simple fast complete correct and extensible JSON <http://json.org> encoder and decoder for Python 2.5+. It is pure Python code with no dependencies but includes an optional C extension for a serious speed boost. The encoder may be subclassed to provide serialization in any kind of situation without any special support by the objects to be serialized (somewhat like pickle). The decoder can handle incoming JSON strings of any specified encoding (UTF-8 by default). simplejson is the externally maintained development version of the json library included with Python 2.6 and Python 3.0 but maintains backwards compatibility with Python 2.5. It gets updated more regularly than the json module in the python stdlib."	(MIT or AFL) and (MIT or GPLv2)			
libthrift-java	thrift	"The libthrift-java package contains Java bindings for thrift."	ASL 2.0 and BSD and zlib			
openstack-sahara-api	openstack-sahara	"OpenStack data processing cluster as a service - API The Sahara project provides a simple means to provision a data-intensive application cluster (Hadoop or Spark) on top of OpenStack. It's the ex Savanna project renamed due to potential trademark issues. This package provides the sahara API for distributed deployments and is considered experimental."	ASL 2.0			

Package name	Source	Package Description	Package License	Encryption types	Encryption Max Key Length	Comment
python-click	python-click	"click is a Python package for creating beautiful command line interfaces in a composable way with as little amount of code as necessary. It's the "Command Line Interface Creation Kit". It's highly configurable but comes with good defaults out of the box."	BSD			
erlang-wx	erlang	"A Graphics System used to write platform independent user interfaces."	ERPL			
python-pymongo	python-pymongo	"The Python driver for MongoDB."	ASL 2.0 and MIT			
mongodb-debuginfo	mongodb	"This package provides debug information for package mongod. Debug information is useful when developing applications that use this package or when debugging this package."	AGPLv3 and zlib and ASL 2.0			
fuel-setup	fuel	"This packages provides script to deploy Fuel components."	GPLv2			
python-posix_ipc	python-posix_ipc	"posix_ipc is a Python module (written in C) that permits creation and manipulation of POSIX inter-process semaphores shared memory and message queues on platforms supporting POSIX Realtime Extensions POSIX 1003.1b-1993."	BSD			
python-sahara	openstack-sahara	"Sahara project aims to provide users with simple means to provision a Hadoop cluster at OpenStack by specifying several parameters like Hadoop version cluster topology nodes hardware details and a few more. This package contains the Sahara Python library."	ASL 2.0			
python-tooz	python-tooz	"The Tooz project aims at centralizing the most common distributed primitives like group membership protocol lock service and leader election by providing a coordination API helping developers to build distributed applications."	ASL 2.0			
python-keystonemiddleware	python-keystonemiddleware	"This package contains middleware modules designed to provide authentication and authorization features to web services other than OpenStack Keystone. The most prominent module is keystone.middleware.auth_token. This package does not expose any CLI or Python API features."	ASL 2.0			
python3-wsaccel	python-wsaccel	"* WSACcell is WebSocket accelerator for AutobahnPython ws4py and Tornado. * WSACcell replaces per-byte process in them with Cython version. * AutobahnPython beginning with version 0.6 automatically uses WSACcell if available."	ASL 2.0			
crimsh-debuginfo	crimsh	"This package provides debug information for package crimsh. Debug information is useful when developing applications that use this package or when debugging this package."	GPL-2.0+			
python3-stevedore	python-stevedore	"Manage dynamic plugins for Python applications"	ASL 2.0			
python-inotify	python-inotify	"This is a Python module for watching filesystems changes. pyinotify can be used for various kind of fs monitoring. pyinotify relies on a recent Linux Kernel feature (merged in kernel 2.6.13) called inotify. inotify is an event-driven notifier its notifications are exported from kernel space to user space."	MIT			
python3-traceback2	python-traceback2	"A backport of traceback to older supported Pythons."	Python			
python-zope-interface	python-zope-interface	"Interfaces are a mechanism for labeling objects as conforming to a given API or contract. This is a separate distribution of the zope.interface package used in Zope 3."	ZPLv2.1			
python-testscenarios	python-testscenarios	"testscenarios provides clean dependency injection for python unittest style tests. This can be used for interface testing (testing many implementations via a single test suite) or for classic dependency injection (provide tests with dependencies externally to the test code itself allowing easy testing in different situations)."	ASL 2.0 and BSD			
monit	monit	"monit is a utility for managing and monitoring processes files directories and devices on a UNIX system. Monit conducts automatic maintenance and repair and can execute meaningful causal actions in error situations."	AGPLv3			
python-logutils	python-logutils	"The logutils package provides a set of handlers for the Python standard library's logging package. Some of these handlers are out-of-scope for the standard library and so they are packaged here. Others are updated versions which have appeared in recent Python releases but are usable with older versions of Python and so are packaged here."	BSD			
python-fuelclient	python-fuelclient	"Summary: Console utility for working with fuel rest api"	Apache			
python-neutron-lib-doc	python-neutron-lib	"OpenStack Neutron library shared by all Neutron sub-projects. This package contains the documentation."	ASL 2.0			

Package name	Source	Package Description	Package License	Encryption types	Encryption Max Key Length	Comment
mcollective	mcollective	"The Marionette Collective is a framework to build server orchestration or parallel job execution systems."	ASL 2.0			
rubygem-ipaddress-doc	rubygem-ipaddress	"Documentation for rubygem-ipaddress"	MIT			
v8-python	v8	"Python libraries from v8."	BSD			
python-sphinxcontrib-httpdomain	python-sphinxcontrib-httpdomain	"Using this Sphinx domain you can document your HTTP API. It includes support for generating documentation from Flask routing tables."	BSD			
uwsgi-transformation-offload	uwsgi	"This package contains the transformation_offload plugin for uWSGI"	GPLv2 with exceptions			
python2-appdirs	python-appdirs	"A small Python 2 module for determining appropriate " + " platform-specific directories e.g. a "user data dir" ."	MIT			
rubygem-yard-doc	rubygem-yard	"Documentation for rubygem-yard."	MIT and (BSD or Ruby)			

Package name	Source	Package Description	Package License	Encryption types	Encryption Max Key Length	Comment
python-routes	routes	"Routing Recognition and Generation Tools Routes is a Python re-implementation of the Rails routes system for mapping URLs to Controllers/Actions and generating URLs. Routes makes it easy to create pretty and concise URLs that are RESTful with little effort. . Speedy and dynamic URL generation means you get a URL with minimal cruft (no big dangling query args). Shortcut features like Named Routes cut down on repetitive typing. . Current features: * Named Routes * Sophisticated Route lookup and URL generation * Wildcard path's before and after static parts * Groupings syntax to allow flexible URLs to accommodate almost any need * Sub-domain support built-in * Conditional matching based on domain cookies HTTP method (RESTful) and more * Easily extensible utilizing custom condition functions and route generation functions * Extensive unit tests"	Unknown			
openvswitch-pki	openvswitch	"Open vSwitch public key infrastructure dependency package Open vSwitch is a production quality multilayer software-based Ethernet virtual switch. It is designed to enable massive network automation through programmatic extension while still supporting standard management interfaces and protocols (e.g. NetFlow IPFIX sFlow SPAN RSPAN CLI LACP 802.1ag). In addition it is designed to support distribution across multiple physical servers similar to VMware's vNetwork distributed vswitch or Cisco's Nexus 1000V. . openvswitch-pki provides PKI (public key infrastructure) support for Open vSwitch switches and controllers reducing the risk of man-in-the-middle attacks on the Open vSwitch network infrastructure."	GPL-2.0 LGPL-2.1 BSD-2-Clause Apache-2.0	lex	128	
openvswitch-pki	openvswitch	"Open vSwitch public key infrastructure dependency package Open vSwitch is a production quality multilayer software-based Ethernet virtual switch. It is designed to enable massive network automation through programmatic extension while still supporting standard management interfaces and protocols (e.g. NetFlow IPFIX sFlow SPAN RSPAN CLI LACP 802.1ag). In addition it is designed to support distribution across multiple physical servers similar to VMware's vNetwork distributed vswitch or Cisco's Nexus 1000V. . openvswitch-pki provides PKI (public key infrastructure) support for Open vSwitch switches and controllers reducing the risk of man-in-the-middle attacks on the Open vSwitch network infrastructure."	GPL-2.0 LGPL-2.1 BSD-2-Clause Apache-2.0	crypt	65	
openvswitch-pki	openvswitch	"Open vSwitch public key infrastructure dependency package Open vSwitch is a production quality multilayer software-based Ethernet virtual switch. It is designed to enable massive network automation through programmatic extension while still supporting standard management interfaces and protocols (e.g. NetFlow IPFIX sFlow SPAN RSPAN CLI LACP 802.1ag). In addition it is designed to support distribution across multiple physical servers similar to VMware's vNetwork distributed vswitch or Cisco's Nexus 1000V. . openvswitch-pki provides PKI (public key infrastructure) support for Open vSwitch switches and controllers reducing the risk of man-in-the-middle attacks on the Open vSwitch network infrastructure."	GPL-2.0 LGPL-2.1 BSD-2-Clause Apache-2.0	aes	256	

Package name	Source	Package Description	Package License	Encryption types	Encryption Max Key Length	Comment
openvswitch-pki	openvswitch	"Open vSwitch public key infrastructure dependency package Open vSwitch is a production quality multilayer software-based Ethernet virtual switch. It is designed to enable massive network automation through programmatic extension while still supporting standard management interfaces and protocols (e.g. NetFlow IPFIX sFlow SPAN RSPAN CLI LACP 802.1ag). In addition it is designed to support distribution across multiple physical servers similar to VMware's vNetwork distributed vswitch or Cisco's Nexus 1000V. . openvswitch-pki provides PKI (public key infrastructure) support for Open vSwitch switches and controllers reducing the risk of man-in-the-middle attacks on the Open vSwitch network infrastructure."	GPL-2.0 LGPL-2.1 BSD-2-Clause Apache-2.0	sha	512	
openvswitch-pki	openvswitch	"Open vSwitch public key infrastructure dependency package Open vSwitch is a production quality multilayer software-based Ethernet virtual switch. It is designed to enable massive network automation through programmatic extension while still supporting standard management interfaces and protocols (e.g. NetFlow IPFIX sFlow SPAN RSPAN CLI LACP 802.1ag). In addition it is designed to support distribution across multiple physical servers similar to VMware's vNetwork distributed vswitch or Cisco's Nexus 1000V. . openvswitch-pki provides PKI (public key infrastructure) support for Open vSwitch switches and controllers reducing the risk of man-in-the-middle attacks on the Open vSwitch network infrastructure."	GPL-2.0 LGPL-2.1 BSD-2-Clause Apache-2.0	md5	128	
nailgun-agent	nailgun-agent	"collects the node hardware data and submits it to the Fuel master The nailgun agent collects the server?s hardware information and submits it to Nailgun through the REST API. Also it's responsible for reporting the online/offline status and for initial setup Mcollective service"	Apache-2.0			
aodh-expirer	aodh	"OpenStack Telemetry (Ceilometer) Alarming - expirer Ceilometer aims to deliver a Single Point Of Contact for billing systems providing all the counters they need to establish customer billing across all current and future OpenStack components. The delivery of counters must be traceable and auditable the counters must be easily extensible to support new projects and agents doing data collections should be independent of the overall system. . (A ceilometer is an instrument that measures cloud coverage.) . This package contains the expirer. it is the script that handles time-to-live support when it is not natively supported by the database backend."	Apache-2.0			
python-kafka	python-kafka	"Pure Python client for Apache Kafka - Python 2.x This module provides low-level protocol support for Apache Kafka as well as high-level consumer and producer classes. Request batching is supported by the protocol as well as broker-aware request routing. Gzip and Snappy compression is also supported for message sets. . This package contains the Python 2.x module."	Apache-2.0			
python-txaio	python-txaio	"compatibility API between asyncio/Twisted/Trollius - Python 2.x Txaio is a helper library for writing code that runs unmodified on both Twisted and asyncio. . This is like six but for wrapping over differences between Twisted and asyncio so one can write code that runs unmodified on both (aka "source code compatibility"). In other words: users can choose if they want asyncio or Twisted as a dependency. . This package contains the Python 2.x module."	Unknown			



Package name	Source	Package Description	Package License	Encryption types	Encryption Max Key Length	Comment
python-pint	python-pint	"define operate and manipulate physical quantities - Python 2.x Pint is Python module/package to define operate and manipulate physical quantities: the product of a numerical value and a unit of measurement. It allows arithmetic operations between them and conversions from and to different units. . It is distributed with a comprehensive list of physical units prefixes and constants. Due to its modular design you can extend (or even rewrite!) the complete list without changing the source code. . This package contains the Python 2.x module."	BSD-3-Clause			
python-sphinxcontrib.docbookrestapi	sphinxcontrib-docbookrestapi	"generating REST API documentation for <a href="http://api.openstack.org">http://api.openstack.org</a> This extension to Sphinx make it possible to generate REST API documentation for the OpenStack API as described in the official API web site at <a href="http://api.openstack.org/">http://api.openstack.org/</a> "	Apache-2.0			
openjdk-8-doc	openjdk-8	"OpenJDK Development Kit (JDK) documentation OpenJDK is a development environment for building applications applets and components using the Java programming language. . This package contains the API documentation. . The packages are built using the IcedTea build support and patches from the IcedTea project."	GPL-2.0 LGPL-2.0 LGPL-2.1 Public Domain Apache-2.0			
python-dateutil	python-dateutil	"powerful extensions to the standard datetime module It features: . * computing of relative deltas (next month next year next monday last week of month etc); * computing of relative deltas between two given date and/or datetime objects * computing of dates based on very flexible recurrence rules using a superset of the iCalendar specification. Parsing of RFC strings is supported as well. * generic parsing of dates in almost any string format * timezone (tzinfo) implementations for tzfile(5) format files (/etc/localtime /usr/share/zoneinfo etc) TZ environment string (in all known formats) iCalendar format files given ranges (with help from relative deltas) local machine timezone fixed offset timezone UTC timezone * computing of Easter Sunday dates for any given year using Western Orthodox or Julian algorithms"	Unknown			
python-bootstrapform-doc	python-django-bootstrap-form	"generate twitter-bootstrap form output for django form - doc Django bootstrap form generates twitter-bootstrap form output for django form. A simple Django template tag to work with twitter bootstrap. . This package contains the documentation."	BSD-3-Clause			
crmsh-doc	crmsh	"crmsh HTML Documentation The crm shell is an advanced command-line interface for High-Availability cluster management in GNU/Linux. Effortlessly configure manage and troubleshoot your clusters from the command line with full tab completion and extensive help. crmsh also provides advanced features like low-level cluster configuration cluster scripting and package management and history exploration tools giving you an instant view of what your cluster is doing. . This package contains the html Pacemaker API documentation."	GPL-2.0+ GPL-2.0			
python-sure	python-sure	"utility belt for automated testing - Python 2.x Sure is a library for Python that leverages a DSL for writing assertions. In CPython it monkey-patches the object type adding some methods and properties purely for test purposes. Any Python code written after "import sure" gains testing superpowers. . This package contains the module for Python 2.x."	GPL-3.0			

Package name	Source	Package Description	Package License	Encryption types	Encryption Max Key Length	Comment
python-glanceclient	python-glanceclient	"Client library for Openstack glance server - Python 2.x The Glance project provides services for discovering registering and retrieving virtual machine images over the cloud. They may be stand-alone services or may be used to deliver images from object stores such as OpenStack's Swift service to Nova's compute nodes. . This is a client for the Glance which uses the OpenStack Image API. There's a Python API (the "glanceclient" module) and a command-line script ("glance"). . This package provides the Python 2.x module."	GPL-2.0+ GPL-2.0 Apache-2.0			
sahara-doc	sahara	"OpenStack data processing cluster as a service - doc The Sahara project provides a simple means to provision a data-intensive application cluster (Hadoop or Spark) on top of OpenStack. It's the ex Savanna project renamed due to potential trademark issues. . This package contains the documentation."	Apache-2.0			
python-dcos	python-dcos	"Datacenter Operating System (DCOS) CLI - Python 2.7 The DCOS Command Line Interface (CLI) is a command line utility that provides a user-friendly yet powerful way to manage DCOS installations. You can use the Mesosphere DCOS command-line interface (CLI) to remotely manage your cluster install software packages and inspect the cluster state. With the DCOS CLI you can: * Find and install packages from DCOS Universe and Multiverse. * Uninstall DCOS services. * Administer the DCOS init process Marathon. * Install and uninstall subcommands that extend and add functionality to the DCOS CLI. . After you install the CLI you can use it through a bash shell on Unix/Linux systems or PowerShell on a Windows system. . This package contains the Python 2.7 module."	Apache-2.0			
python-jinja2	jinja2	"small but fast and easy to use stand-alone template engine Jinja2 is a template engine written in pure Python. It provides a Django inspired non-XML syntax but supports inline expressions and an optional sandboxed environment. . The key-features are: * Configurable syntax. If you are generating LaTeX or other formats with Jinja2 you can change the delimiters to something that integrates better into the LaTeX markup. * Fast. While performance is not the primarily target of Jinja2 it?s surprisingly fast. The overhead compared to regular Python code was reduced to the very minimum. * Easy to debug. Jinja2 integrates directly into the Python traceback system which allows you to debug Jinja2 templates with regular Python debugging helpers. * Secure. It?s possible to evaluate untrusted template code if the optional sandbox is enabled. This allows Jinja2 to be used as templating language for applications where users may modify the template design."	GPL-2.0 GPL-3.0 MIT			
python-eventlet-doc	python-eventlet	"concurrent networking library - doc Eventlet allows you to change how you run your code not how you write it. . It uses epoll or libevent for highly scalable non-blocking I/O. Coroutines ensure that the developer uses a blocking style of programming that is similar to threading but provide the benefits of non-blocking I/O. The event dispatch is implicit which means you can easily use Eventlet from the Python interpreter or as a small part of a larger application. . It's easy to get started using Eventlet and easy to convert existing applications to use it. Start off by looking at examples common design patterns and the list of the basic API primitives. . This package provides the documentation."	Apache-2.0			

Package name	Source	Package Description	Package License	Encryption types	Encryption Max Key Length	Comment
python3-dcos	python-dcos	"DCOS Common Modules - Python 3.x The DCOS Command Line Interface (CLI) is a command line utility that provides a user-friendly yet powerful way to manage DCOS installations. You can use the Mesosphere DCOS command-line interface (CLI) to remotely manage your cluster install software packages and inspect the cluster state. With the DCOS CLI you can: * Find and install packages from DCOS Universe and Multiverse. * Uninstall DCOS services. * Administer the DCOS init process Marathon. * Install and uninstall subcommands that extend and add functionality to the DCOS CLI. . After you install the CLI you can use it through a bash shell on Unix/Linux systems or PowerShell on a Windows system. . This package contains the Python 3.x module."	Apache-2.0			
discover-runner	discover-runner	discover-runner is an alternative Django "TEST_RUNNER" which	BSD-3-Clause			
python-pbr-doc	python-pbr	PBR (Python Build Reasonableness) is a library that injects some	BSD-2-Clause BSD-3-Clause Apache-2.0			
fuel-createmirror	fuel-createmirror	utility for creating local mirrors of MOS and upstream OS	Unknown			
compressor	compressor	Python 3.x Django Compressor combines and compresses	BSD-2-Clause MIT			
python-mock-doc	python-mock	core mock.Mock class that is intended to reduce the need to	BSD-3-Clause			
python3-cov-core	cov-core	is a lib package for use by pytest-cov nose-cov and nose2-cov.	GPL-3.0 MIT			
python-daemonize	daemonize	module provides a simple class (Daemonize) that handles	Unknown			
swift-doc	swift	Object Storage (code-named Swift) creates redundant scalable	Apache-2.0			
python-tooz-doc	python-tooz	project centralizes the most common distributed primitives like	Apache-2.0			
python3-rsa	python-rsa	pure-Python RSA implementation. It supports encryption and	Apache-2.0	rsa	unlimited	typically <=8192
python-glance-store	store	Glance project provides services for discovering registering and	Apache-2.0			
libpe-status10	pacemaker	core Pacemaker is a distributed finite state machine capable of	GPL-2.0+ GPL-2.0 LGPL-2.1	md5	128	
python-troveclient	troveclient	is Database as a Service for OpenStack. It's designed to run	Apache-2.0			
swift-object	swift	"distributed virtual object store - object server OpenStack Object Storage (code-named Swift) creates redundant scalable object storage using clusters of standardized servers to store petabytes of accessible data. It is not a file system or real-time data storage system but rather a long-term storage system for a more permanent type of static data that can be retrieved leveraged and then updated if necessary. Primary examples of data that best fit this type of storage model are virtual machine images photo storage email storage and backup archiving. Having no central "brain" or master point of control provides greater scalability redundancy and permanence. . Objects are written to multiple hardware devices in the data center with the OpenStack software responsible for ensuring data replication and integrity across the cluster. Storage clusters can scale horizontally by adding new nodes. Should a node fail OpenStack works to replicate its content from other active nodes. Because OpenStack uses software logic to ensure data replication and distribution across different devices inexpensive commodity hard drives and servers can be used in lieu of more expensive equipment. . This package provides the swift object server."	Apache-2.0			
python3-packaging	python-packaging	"core utilities for python packages These core utilities currently consist of: - Version Handling (PEP 440) - Dependency Specification (PEP 440)"	BSD-3-Clause Apache-2.0			
libcephfs1	ceph	"Ceph distributed file system client library Ceph is a distributed network file system designed to provide excellent performance reliability and scalability. This is a shared library allowing applications to access a Ceph distributed file system via a POSIX-like interface."	GPL-2.0+ GPL-2.0 GPL-3.0 LGPL-2.0 LGPL-2.1 BSD-2-Clause BSD-3-Clause Public Domain Apache-2.0	crush	unlimited	cephhash

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libcephfs1	ceph	"Ceph distributed file system client library Ceph is a distributed network file system designed to provide excellent performance reliability and scalability. This is a shared library allowing applications to access a Ceph distributed file system via a POSIX-like interface."	GPL-2.0+ GPL-2.0 GPL-3.0 LGPL-2.0 LGPL-2.1 BSD-2-Clause BSD-3-Clause Public Domain Apache-2.0	sha	512	
libcephfs1	ceph	"Ceph distributed file system client library Ceph is a distributed network file system designed to provide excellent performance reliability and scalability. This is a shared library allowing applications to access a Ceph distributed file system via a POSIX-like interface."	GPL-2.0+ GPL-2.0 GPL-3.0 LGPL-2.0 LGPL-2.1 BSD-2-Clause BSD-3-Clause Public Domain Apache-2.0	aes	256	
libcephfs1	ceph	"Ceph distributed file system client library Ceph is a distributed network file system designed to provide excellent performance reliability and scalability. This is a shared library allowing applications to access a Ceph distributed file system via a POSIX-like interface."	GPL-2.0+ GPL-2.0 GPL-3.0 LGPL-2.0 LGPL-2.1 BSD-2-Clause BSD-3-Clause Public Domain Apache-2.0	abacus	0	
libcephfs1	ceph	"Ceph distributed file system client library Ceph is a distributed network file system designed to provide excellent performance reliability and scalability. This is a shared library allowing applications to access a Ceph distributed file system via a POSIX-like interface."	GPL-2.0+ GPL-2.0 GPL-3.0 LGPL-2.0 LGPL-2.1 BSD-2-Clause BSD-3-Clause Public Domain Apache-2.0	md5	128	
python3-rfc3986	python-rfc3986	"validating URI references per RFC 3986 - Python 3.x This package provides a Python implementation of RFC 3986 including validation and authority parsing. . This package contains the Python 3.x module."	Apache-2.0			
python-oslo.versionedobjects	python-oslo.versionedobjects	"deals with DB schema versions and code expectations - Python 2.x oslo.versionedobjects library deals with DB schema being at different versions than the code expects allowing services to be operated safely during upgrades. It enables DB independent schema by providing an abstraction layer which allows one to support SQL and NoSQL Databases. oslo.versionedobjects is also used in RPC APIs to ensure upgrades happen without spreading version dependent code across different services and projects. . This package contains the Python 2.x module."	Apache-2.0			
python-setuptools	python-setuptools	"Python Distutils Enhancements Extensions to the python-distutils for large or complex distributions."	Unknown			
python-magnumclient-doc	python-magnumclient	"client library for Magnum API - doc Magnum is an OpenStack API service developed by the OpenStack Containers Team making container orchestration engines such as Docker and Kubernetes available as first class resources in OpenStack. Magnum uses Heat to orchestrate an OS image which contains Docker and Kubernetes and runs that image in either virtual machines or bare metal in a cluster configuration. . This package contains the documentation."	Apache-2.0			
python3-neutronclient	python-neutronclient	"client API library for Neutron - Python 3.x Neutron provides an API to dynamically request and configure virtual networks. These networks connect "interfaces" from other OpenStack services (e.g. vNICs from Nova VMs). The Neutron API supports extensions to provide advanced network capabilities (e.g. QoS ACLs network monitoring etc). . This package provides the client and Python 3.x module."	Apache-2.0			
erlang-eunit	erlang	"Erlang/OTP module for unit testing The EUnit application contains modules with support for unit testing."	LGPL-2.1 Apache-2.0	aes	256	
erlang-eunit	erlang	"Erlang/OTP module for unit testing The EUnit application contains modules with support for unit testing."	LGPL-2.1 Apache-2.0	diffiehellman	unlimited	
erlang-eunit	erlang	"Erlang/OTP module for unit testing The EUnit application contains modules with support for unit testing."	LGPL-2.1 Apache-2.0	blowfish	448	
erlang-eunit	erlang	"Erlang/OTP module for unit testing The EUnit application contains modules with support for unit testing."	LGPL-2.1 Apache-2.0	sha	512	

Package name	Source	Package Description	Package License	Encryption types	Encryption Max Key Length	Comment
erlang-eunit	erlang	"Erlang/OTP module for unit testing The EUnit application contains modules with support for unit testing."	LGPL-2.1 Apache-2.0	hmac	160	
erlang-eunit	erlang	"Erlang/OTP module for unit testing The EUnit application contains modules with support for unit testing."	LGPL-2.1 Apache-2.0	md5	128	
erlang-tools	erlang	"Erlang/OTP various tools The Tools application contains a number of stand-alone tools which are useful when developing Erlang programs. . cover - A coverage analysis tool for Erlang. cprof - A profiling tool that shows how many times each function is called. Uses a kind of local call trace breakpoints containing counters to achieve very low runtime performance degradation. eprof - A time profiling tool; measures how time is used in Erlang programs. Predecessor of fprof (see below). fprof - Another Erlang profiler; measures how time is used in Erlang programs. Uses trace to file to minimize runtime performance impact and displays time for calling and called functions. instrument - Utility functions for obtaining and analyzing resource usage in an instrumented Erlang runtime system. make - A make utility for Erlang similar to UNIX make. tags - A tool for generating Emacs TAGS files from Erlang source files. xref - A cross reference tool. Can be used to check dependencies between functions modules applications and releases."	LGPL-2.1 Apache-2.0	aes	256	
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erlang-tools	erlang	"Erlang/OTP various tools The Tools application contains a number of stand-alone tools which are useful when developing Erlang programs. . cover - A coverage analysis tool for Erlang. cprof - A profiling tool that shows how many times each function is called. Uses a kind of local call trace breakpoints containing counters to achieve very low runtime performance degradation. eprof - A time profiling tool; measures how time is used in Erlang programs. Predecessor of fprof (see below). fprof - Another Erlang profiler; measures how time is used in Erlang programs. Uses trace to file to minimize runtime performance impact and displays time for calling and called functions. instrument - Utility functions for obtaining and analyzing resource usage in an instrumented Erlang runtime system. make - A make utility for Erlang similar to UNIX make. tags - A tool for generating Emacs TAGS files from Erlang source files. xref - A cross reference tool. Can be used to check dependencies between functions modules applications and releases."	LGPL-2.1 Apache-2.0	hmac	160	

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python3-positional	python-positional	"A decorator which enforces only some args may be passed positionally. Positional provides a decorator which enforces only some args may be passed positionally. The idea and some of the code was taken from the oauth2 client of the google-api client. . This package contains the Python 3.x module."	Apache-2.0			
python3-psycpg2-dbg	psycpg2	"Python 3 module for PostgreSQL (debug extension) psycpg is a PostgreSQL database adapter for the Python3 programming language (just like pygresql and popy.) This is version 2 a complete rewrite of the original code to provide new-style classes for connection and cursor objects and other sweet candies. Like the original psycpg 2 was written with the aim of being very small and fast and stable as a rock. . This package contains the extensions built for the Python debug interpreter."	unknown			
python-fixtures	python-fixtures	"PyUnit extension for defining test fixtures outside of test cases - Python 2.x A PyUnit extension for defining test fixtures outside of test cases. Each fixture encapsulates creating reusing and freeing some state - be that a temporary directory on disk SQL server connection or just a particular object graph. This is extremely useful for testing and general resource management. . Fixtures ships with the base class unittest glue and a number of precanned concrete fixtures. . This package provides the Python 2.x module."	BSD-3-Clause Apache-2.0			
python-os-collect-config	python-os-collect-config	"collect and cache metadata run hooks on changes os-collect-config collects data from defined configuration sources and runs a defined hook whenever the metadata has changed. You must define what sources to collect configuration data from in os-collect-config configuration file at /etc/os-collect-config/sources.ini. These sources will be polled and whenever any of them changes default.command will be run. A file will be written to the cache dir os_config_files.json which will be a json list of the file paths to the current copy of each metadata source. This list will also be set as a colon separated list in the environment variable OS_CONFIG_FILES for the command that is run."	Apache-2.0			

Package name	Source	Package Description	Package License	Encryption types	Encryption Max Key Length	Comment
erlang-debugger	erlang	"Erlang/OTP application for debugging and testing Debugger is a graphical tool which can be used for debugging and testing of Erlang programs. For example breakpoints can be set code can be single stepped and variable values can be inspected and modified."	LGPL-2.1 Apache-2.0	aes	256	
erlang-debugger	erlang	"Erlang/OTP application for debugging and testing Debugger is a graphical tool which can be used for debugging and testing of Erlang programs. For example breakpoints can be set code can be single stepped and variable values can be inspected and modified."	LGPL-2.1 Apache-2.0	diffiehellman	unlimited	
erlang-debugger	erlang	"Erlang/OTP application for debugging and testing Debugger is a graphical tool which can be used for debugging and testing of Erlang programs. For example breakpoints can be set code can be single stepped and variable values can be inspected and modified."	LGPL-2.1 Apache-2.0	blowfish	448	
erlang-debugger	erlang	"Erlang/OTP application for debugging and testing Debugger is a graphical tool which can be used for debugging and testing of Erlang programs. For example breakpoints can be set code can be single stepped and variable values can be inspected and modified."	LGPL-2.1 Apache-2.0	sha	512	
erlang-debugger	erlang	"Erlang/OTP application for debugging and testing Debugger is a graphical tool which can be used for debugging and testing of Erlang programs. For example breakpoints can be set code can be single stepped and variable values can be inspected and modified."	LGPL-2.1 Apache-2.0	hmac	160	
erlang-debugger	erlang	"Erlang/OTP application for debugging and testing Debugger is a graphical tool which can be used for debugging and testing of Erlang programs. For example breakpoints can be set code can be single stepped and variable values can be inspected and modified."	LGPL-2.1 Apache-2.0	md5	128	
sphinx-rtd-theme-common	sphinx-rtd-theme	"sphinx theme from readthedocs.org (common files) This mobile-friendly sphinx theme was initially created for readthedocs.org but can be incorporated in any project. . Among other things it features a left panel with a browseable table of contents and a search bar. . This package contains the common files used by the theme."	BSD-2-Clause Apache-2.0			
python-openstacksdk-doc	python-openstacksdk	"SDK for building applications to work with OpenStack - doc The python-openstacksdk is a collection of libraries for building applications to work with OpenStack clouds. The project aims to provide a consistent and complete set of interactions with OpenStack's many services along with complete documentation examples and tools. . This SDK is under active development and in the interests of providing a high-quality interface the APIs provided in this release may differ from those provided in future release. . This package contains the documentation."	Apache-2.0			



Package name	Source	Package Description	Package License	Encryption types	Encryption Max Key Length	Comment
python-xstatic-d3	python-xstatic-d3	"D3 JS XStatic support - Python 2.x XStatic is a packaging standard to package external (often 3rd party) static files as a Python package so they are easily usable on all operating systems with any package management system or even without one. . Many Python projects need to use some specific data files like javascript css java applets images etc. Sometimes these files belong to YOUR project (then you may want to package them separately but you could also just put them into your main package). But in many other cases those files are maintained by someone else (like jQuery javascript library or even much bigger js libraries or applications) and you definitely do not really want to merge them into your project. So you want to have static file packages but you don?t want to get lots of stuff you do not want. Thus stuff required by XStatic file packages (especially the main toplevel XStatic package) tries to obey to be a MINIMAL no-fat thing. XStatic doesn't "sell" any web framework or other stuff you don't want. Maybe there will be optional XStatic extensions for all sorts of stuff but they won't be required if you just want the files. . By having static files in packages it is also easier to build virtual envs support linux/bsd/... distribution package maintainers and even windows installs using the same mechanism. . This package provides D3 JS support as a Python 2.x module."	BSD-3-Clause			
python3-monotonic	python-monotonic	"implementation of time.monotonic() - Python 3.x This module provides a monotonic() function which returns the value (in fractional seconds) of a clock which never goes backwards. On Python 3.3 or newer monotonic will be an alias of time.monotonic from the standard library. On older versions it will fall back to an equivalent implementation: GetTickCount64 on Windows mach_absolute_time on OS X and clock_gettime(3) on Linux/BSD. . If no suitable implementation exists for the current platform attempting to import this module (or to import from it) will cause a RuntimeError exception to be raised. . This package contains the Python 3.x module."	Apache-2.0			
python-gnocchiclient	python-gnocchiclient	"bindings to the OpenStack Gnocchi API - Python 2.7 This is a client for OpenStack gnocchi API. There's a Python API (the gnocchiclient module) and a command-line script. Each implements the entire OpenStack Gnocchi API. . Gnocchi is a service for managing a set of resources and storing metrics about them in a scalable and resilient way. Its functionalities are exposed over an HTTP REST API. . This package contains the Python 2.7 module."	Apache-2.0			
python-wsgi-intercept	python-wsgi-intercept	"installs a WSGI application in place of a real URI for testing Testing a WSGI application normally involves starting a server at a local host and port then pointing your test code to that address. Instead this library lets you intercept calls to any specific host/port combination and redirect them into a WSGI application importable by your test program. Thus you can avoid spawning multiple processes or threads to test your Web app. . wsgi_intercept works by replacing httplib.HTTPConnection with a subclass wsgi_intercept.WSGI_HTTPConnection. This class then redirects specific server/port combinations into a WSGI application by emulating a socket. If no intercept is registered for the host and port requested those requests are passed on to the standard handler."	Unknown			

Package name	Source	Package Description	Package License	Encryption types	Encryption Max Key Length	Comment
python-keystoneauth1-doc	python-keystoneauth1	"authentication library for OpenStack Identity - doc Keystoneauth is a library that contains tools for authenticating with OpenStack Clients. These tools include: authentication plugins (password token and federation based); discovery mechanisms to determine version support for OpenStack clouds; and a session used to maintain client settings across requests. It is designed for use in conjunction with the existing OpenStack clients and for simplifying the process of writing new clients. . This package contains the documentation."	Apache-2.0			
aodh-api	aodh	"OpenStack Telemetry (Ceilometer) Alarming - API server Ceilometer aims to deliver a Single Point Of Contact for billing systems providing all the counters they need to establish customer billing across all current and future OpenStack components. The delivery of counters must be traceable and auditable the counters must be easily extensible to support new projects and agents doing data collections should be independent of the overall system. . (A ceilometer is an instrument that measures cloud coverage.) . This package contains the API service."	Apache-2.0			
golang-github-kylelemons-godebug-dev	golang-github-kylelemons-godebug	"Debugging helper utilities for Go Golang debugging helper utilities."	Apache-2.0			
openvswitch-switch	openvswitch	"Open vSwitch switch implementations Open vSwitch is a production quality multilayer software-based Ethernet virtual switch. It is designed to enable massive network automation through programmatic extension while still supporting standard management interfaces and protocols (e.g. NetFlow IPFIX sFlow SPAN RSPAN CLI LACP 802.1ag). In addition it is designed to support distribution across multiple physical servers similar to VMware's vNetwork distributed vswitch or Cisco's Nexus 1000V. . openvswitch-switch provides the userspace components and utilities for the Open vSwitch kernel-based switch."	GPL-2.0 LGPL-2.1 BSD-2-Clause Apache-2.0	lex	128	
openvswitch-switch	openvswitch	"Open vSwitch switch implementations Open vSwitch is a production quality multilayer software-based Ethernet virtual switch. It is designed to enable massive network automation through programmatic extension while still supporting standard management interfaces and protocols (e.g. NetFlow IPFIX sFlow SPAN RSPAN CLI LACP 802.1ag). In addition it is designed to support distribution across multiple physical servers similar to VMware's vNetwork distributed vswitch or Cisco's Nexus 1000V. . openvswitch-switch provides the userspace components and utilities for the Open vSwitch kernel-based switch."	GPL-2.0 LGPL-2.1 BSD-2-Clause Apache-2.0	crypt	65	
openvswitch-switch	openvswitch	"Open vSwitch switch implementations Open vSwitch is a production quality multilayer software-based Ethernet virtual switch. It is designed to enable massive network automation through programmatic extension while still supporting standard management interfaces and protocols (e.g. NetFlow IPFIX sFlow SPAN RSPAN CLI LACP 802.1ag). In addition it is designed to support distribution across multiple physical servers similar to VMware's vNetwork distributed vswitch or Cisco's Nexus 1000V. . openvswitch-switch provides the userspace components and utilities for the Open vSwitch kernel-based switch."	GPL-2.0 LGPL-2.1 BSD-2-Clause Apache-2.0	aes	256	

Package name	Source	Package Description	Package License	Encryption types	Encryption Max Key Length	Comment
openvswitch-switch	openvswitch	"Open vSwitch switch implementations Open vSwitch is a production quality multilayer software-based Ethernet virtual switch. It is designed to enable massive network automation through programmatic extension while still supporting standard management interfaces and protocols (e.g. NetFlow IPFIX sFlow SPAN RSPAN CLI LACP 802.1ag). In addition it is designed to support distribution across multiple physical servers similar to VMware's vNetwork distributed vswitch or Cisco's Nexus 1000V. . openvswitch-switch provides the userspace components and utilities for the Open vSwitch kernel-based switch."	GPL-2.0 LGPL-2.1 BSD-2-Clause Apache-2.0	sha	512	
openvswitch-switch	openvswitch	"Open vSwitch switch implementations Open vSwitch is a production quality multilayer software-based Ethernet virtual switch. It is designed to enable massive network automation through programmatic extension while still supporting standard management interfaces and protocols (e.g. NetFlow IPFIX sFlow SPAN RSPAN CLI LACP 802.1ag). In addition it is designed to support distribution across multiple physical servers similar to VMware's vNetwork distributed vswitch or Cisco's Nexus 1000V. . openvswitch-switch provides the userspace components and utilities for the Open vSwitch kernel-based switch."	GPL-2.0 LGPL-2.1 BSD-2-Clause Apache-2.0	md5	128	
python3-openssl	pyopenssl	"Python 3 wrapper around the OpenSSL library High-level wrapper around a subset of the OpenSSL library includes . * SSL.Connection objects wrapping the methods of Python's portable sockets * Callbacks written in Python * Extensive error-handling mechanism mirroring OpenSSL's error codes . A lot of the object methods do nothing more than calling a corresponding function in the OpenSSL library. . This package contains the Python 3 version of pyopenssl."	Public Domain Apache-2.0			
python-urllib3-whl	python-urllib3	"HTTP library with thread-safe connection pooling urllib3 supports features left out of urllib and urllib2 libraries. . - Re-use the same socket connection for multiple requests (HTTPConnectionPool and HTTPSConnectionPool) (with optional client-side certificate verification). - File posting (encode_multipart_formdata). - Built-in redirection and retries (optional). - Supports gzip and deflate decoding. - Thread-safe and sanity-safe. - Small and easy to understand codebase perfect for extending and building upon. . This package contains the universal wheel."	Unknown			
fuel-ha-utils	fuel-library9.0	"Fuel Library HA utils"	unknown			
python3-requests-kerberos	python-requests-kerberos	"Kerberos/GSSAPI authentication handler for python-requests - Python 3.x Requests is an HTTP library written in Python for human beings. This library adds optional Kerberos/GSSAPI authentication support and supports mutual authentication. . This package provides the Python 3.x module."	Unknown			
python-setuptools-doc	python-setuptools	"Python Distutils Enhancements (documentation) Extensions to the Python distutils for large or complex distributions. The package contains the documentation in html format."	Unknown			
python3-sure	python-sure	"utility belt for automated testing - Python 3.x Sure is a library for Python that leverages a DSL for writing assertions. In CPython it monkey-patches the object type adding some methods and properties purely for test purposes. Any Python code written after "import sure" gains testing superpowers. . This package contains the module for Python 3.x."	GPL-3.0			

Package name	Source	Package Description	Package License	Encryption types	Encryption Max Key Length	Comment
python-openstackclient	python-openstackclient	"OpenStack Command-line Client - Python 2.7 python-openstackclient is a unified command-line client for the OpenStack APIs. It is a thin wrapper to the stock python-*client modules that implement the actual REST API client actions. . This is an implementation of the design goals shown in <a href="http://wiki.openstack.org/UnifiedCLI">http://wiki.openstack.org/UnifiedCLI</a> . The primary goal is to provide a unified shell command structure and a common language to describe operations in OpenStack. . This package contains the Python 2.7 module."	Apache-2.0			
ceph-common	ceph	"common utilities to mount and interact with a ceph storage cluster Ceph is a distributed storage and file system designed to provide excellent performance reliability and scalability. This is a collection of common tools that allow one to interact with and administer a Ceph cluster."	GPL-2.0+ GPL-2.0 GPL-3.0 LGPL-2.0 LGPL-2.1 BSD-2-Clause BSD-3-Clause Public Domain Apache-2.0	crush	unlimited	cephhash
ceph-common	ceph	"common utilities to mount and interact with a ceph storage cluster Ceph is a distributed storage and file system designed to provide excellent performance reliability and scalability. This is a collection of common tools that allow one to interact with and administer a Ceph cluster."	GPL-2.0+ GPL-2.0 GPL-3.0 LGPL-2.0 LGPL-2.1 BSD-2-Clause BSD-3-Clause Public Domain Apache-2.0	sha	512	
ceph-common	ceph	"common utilities to mount and interact with a ceph storage cluster Ceph is a distributed storage and file system designed to provide excellent performance reliability and scalability. This is a collection of common tools that allow one to interact with and administer a Ceph cluster."	GPL-2.0+ GPL-2.0 GPL-3.0 LGPL-2.0 LGPL-2.1 BSD-2-Clause BSD-3-Clause Public Domain Apache-2.0	aes	256	
ceph-common	ceph	"common utilities to mount and interact with a ceph storage cluster Ceph is a distributed storage and file system designed to provide excellent performance reliability and scalability. This is a collection of common tools that allow one to interact with and administer a Ceph cluster."	GPL-2.0+ GPL-2.0 GPL-3.0 LGPL-2.0 LGPL-2.1 BSD-2-Clause BSD-3-Clause Public Domain Apache-2.0	abacus	0	
ceph-common	ceph	"common utilities to mount and interact with a ceph storage cluster Ceph is a distributed storage and file system designed to provide excellent performance reliability and scalability. This is a collection of common tools that allow one to interact with and administer a Ceph cluster."	GPL-2.0+ GPL-2.0 GPL-3.0 LGPL-2.0 LGPL-2.1 BSD-2-Clause BSD-3-Clause Public Domain Apache-2.0	md5	128	
fencing-agent	fuel-nailgun	"Fencing agent"	unknown			
neutron-fwaas-doc	neutron-fwaas	"Firewall-as-a-Service driver for OpenStack Neutron Neutron is a virtual network service for Openstack and a part of Netstack. Just like OpenStack Nova provides an API to dynamically request and configure virtual servers Neutron provides an API to dynamically request and configure virtual networks. These networks connect "interfaces" from other OpenStack services (e.g. virtual NICs from Nova VMs). The Neutron API supports extensions to provide advanced network capabilities (e.g. QoS ACLs network monitoring etc.) . This package contains the documentation"	Apache-2.0			
python-requests-kerberos	python-requests-kerberos	"Kerberos/GSSAPI authentication handler for python-requests - Python 2.x Requests is an HTTP library written in Python for human beings. This library adds optional Kerberos/GSSAPI authentication support and supports mutual authentication. . This package provides the Python 2.x module."	Unknown			
python-os-brick-doc	python-os-brick	"Library for managing local volume attaches - doc OpenStack Cinder brick library for managing local volume attaches. . Features discovery of volumes being attached to a host for many transport protocols and removal of volumes from a host. . This package contains the documentation."	Apache-2.0			

Package name	Source	Package Description	Package License	Encryption types	Encryption Max Key Length	Comment
python-pil	pillow	"Python Imaging Library (Pillow fork) The Python Imaging Library (PIL) adds an image object to your Python interpreter. You can load images from a variety of file formats and apply a rich set of image operations to them. . Image Objects: o Bilevel greyscale palette true colour (RGB) true colour with transparency (RGBA). o colour separation (CMYK). o Copy cut paste operations. o Flip transpose resize rotate and arbitrary affine transforms. o Transparency operations. o Channel and point operations. o Colour transforms including matrix operations. o Image enhancement including convolution filters. . File Formats: o Full (Open/Load/Save): BMP EPS (with ghostscript) GIF IM JPEG MSP PDF PNG PPM TIFF XBM. o Read only (Open/Load): ARG CUR DCX FLI FPX GBR GD ICO IMT IPTC MCIDAS MPEG PhotoCD PCX PIXAR PSD TGA SGI SUN TGA WMF XPM. o Save only: PDF EPS (without ghostscript)."	Unknown			
cirros-testvm	cirros-testvm	"Cirros Test VM image"	GPL-2.0+ GPL-2.0	md5	128	
python3-futurist	python-futurist	"useful additions to futures from the future - Python 3.x Code from the future delivered to you in the now. For example: * A futurist.GreenThreadPoolExecutor using eventlet green thread pools. It provides a standard executor API/interface and it also gathers execution statistics. * A futurist.ProcessPoolExecutor derivative that gathers execution statistics. * A futurist.SynchronousExecutor that doesn't run concurrently. It has the same executor API/interface and it also gathers execution statistics. * A futurist.ThreadPoolExecutor derivative that gathers execution statistics. * A futurist.periodics.PeriodicWorker that can use the previously mentioned executors to run asynchronous work periodically in parallel or synchronously. * etc. . This package contains the Python 3.x module."	Apache-2.0			
python3-nose-timer	python-nose-timer	"timer plugin for nosetests - Python 3.x A timer plugin for nosetests that answers the question: how much time does every test take? Run nosetests with the --with-timer flag and you will see a list of the tests and the time spent by each one (in seconds): . myapp.tests.ABigTestCase.test_the_world_is_running: 56.0010s myapp.tests.ABigTestCase.test_the_rest_of_the_galaxy_is_running: 2356.0010s . It is also possible to list the 10 slowest tests this way: . nosetests --with-timer --timer-top-n 10 . This package contains the Python 3.x module."	MIT			
python3-rcssmin	python-rcssmin	"CSS Minifier - Python 3.x The minifier is based on the semantics of the YUI compressor which itself is based on the rule list by Isaac Schlueter. . This module is a re-implementation aiming for speed instead of maximum compression so it can be used at runtime (rather than during a preprocessing step). RCSSmin does syntactical compression only (removing spaces comments and possibly semicolons). It does not provide semantic compression (like removing empty blocks collapsing redundant properties etc). It does however support various CSS hacks (by keeping them working as intended). . rcssmin.c is a reimplementation of rcssmin.py in C and improves runtime up to factor 100 or so (depending on the input). docs/BENCHMARKS in the source distribution contains the details. . This package contains the Python 3.x module."	Apache-2.0			

Package name	Source	Package Description	Package License	Encryption types	Encryption Max Key Length	Comment
erlang-et	erlang	"Erlang/OTP event tracer application The Event Tracer (ET) uses the built-in trace mechanism in Erlang and provides tools for collecting and examining trace data using GUI."	LGPL-2.1 Apache-2.0	aes	256	
erlang-et	erlang	"Erlang/OTP event tracer application The Event Tracer (ET) uses the built-in trace mechanism in Erlang and provides tools for collecting and examining trace data using GUI."	LGPL-2.1 Apache-2.0	diffiehellman	unlimited	
erlang-et	erlang	"Erlang/OTP event tracer application The Event Tracer (ET) uses the built-in trace mechanism in Erlang and provides tools for collecting and examining trace data using GUI."	LGPL-2.1 Apache-2.0	blowfish	448	
erlang-et	erlang	"Erlang/OTP event tracer application The Event Tracer (ET) uses the built-in trace mechanism in Erlang and provides tools for collecting and examining trace data using GUI."	LGPL-2.1 Apache-2.0	sha	512	
erlang-et	erlang	"Erlang/OTP event tracer application The Event Tracer (ET) uses the built-in trace mechanism in Erlang and provides tools for collecting and examining trace data using GUI."	LGPL-2.1 Apache-2.0	hmac	160	
erlang-et	erlang	"Erlang/OTP event tracer application The Event Tracer (ET) uses the built-in trace mechanism in Erlang and provides tools for collecting and examining trace data using GUI."	LGPL-2.1 Apache-2.0	md5	128	
python-kafka-doc	python-kafka	"Pure Python client for Apache Kafka - doc This module provides low-level protocol support for Apache Kafka as well as high-level consumer and producer classes. Request batching is supported by the protocol as well as broker-aware request routing. Gzip and Snappy compression is also supported for message sets. . This package contains the documentation."	Apache-2.0			
corosync-dbg	corosync	"Standards-based cluster framework (debugging symbols) The corosync project is a project to implement a production quality "Revised BSD" licensed implementation of all core functionalities required by openais. The project implements cutting edge research on virtual synchrony to provide 100% correct operation in the face of failures or partitionable networks with excellent performance characteristics. . The Application Interface Specification is a software API and policies which are used to develop applications that maintain service during faults. . This package contains the debug information."	Public Domain			

Package name	Source	Package Description	Package License	Encryption types	Encryption Max Key Length	Comment
python3-xstatic-jquery-migrate	python-xstatic-jquery-migrate	"jQuery Migrate XStatic support - Python 3.x XStatic is a packaging standard to package external (often 3rd party) static files as a Python package so they are easily usable on all operating systems with any package management system or even without one. . Many Python projects need to use some specific data files like javascript css java applets images etc. Sometimes these files belong to YOUR project (then you may want to package them separately but you could also just put them into your main package). But in many other cases those files are maintained by someone else (like jQuery javascript library or even much bigger js libraries or applications) and you definitely do not really want to merge them into your project. So you want to have static file packages but you don't want to get lots of stuff you do not want. Thus stuff required by XStatic file packages (especially the main toplevel XStatic package) tries to obey to be a MINIMAL no-fat thing. XStatic doesn't "sell" any web framework or other stuff you don't want. Maybe there will be optional XStatic extensions for all sorts of stuff but they won't be required if you just want the files. . By having static files in packages it is also easier to build virtual envs support linux/bsd/... distribution package maintainers and even windows installs using the same mechanism. . This package provides jQuery Migrate support as a Python 3.x module."	Unknown			
python-sysv-ipc	python-sysv-ipc	"semaphores shared memory and message queues - Python 2.x Sysv_ipc gives Python programs access to System V semaphores shared memory and message queues. Most (all?) Unixes (including OS X) support System V IPC. . This package contains the Python 2.x module."	BSD-3-Clause			
python-backports.ssl-match-hostname	backports.ssl-match-hostname	"Backport of the Python 3.2 SSL hostname checking function The Secure Sockets layer is only actually secure if you check the hostname in the certificate returned by the server to which you are connecting and verify that it matches to hostname that you are trying to reach. . But the matching logic defined in RFC2818 can be a bit tricky to implement on your own. So the ssl package in the Standard Library of Python 3.2 and greater now includes a match_hostname() function for performing this check instead of requiring every application to implement the check separately. . This package contains a backport of the ssl.match_hostname function for Python 2.4 and above."	Unknown			
python-django-babel	python-django-babel	"Utilities for using Babel in Django - Python 2.7 This package contains various utilities for integration of Babel into the Django web framework: * A message extraction plugin for Django templates. * A middleware class that adds the Babel Locale object to requests. * A set of template tags for date and number formatting. . Babel provides a message extraction framework similar to GNU xgettext but more extensible and geared towards Python applications. While Django does provide wrapper scripts for making the use of xgettext more convenient the extraction functionality is rather limited. For example you can't use template files with an extension other than .html and everything needs to be in your project package directory. . This package contains the Python 2.7 module."	BSD-3-Clause			
nailgun-mcagents	astute	"NailGun mcagents"	unknown			

Package name	Source	Package Description	Package License	Encryption types	Encryption Max Key Length	Comment
erlang-inets	erlang	"Erlang/OTP Internet clients and servers Inets is a container for Internet clients and servers. Currently a FTP client a HTTP client and server and a TFTP client and server are provided in Inets."	LGPL-2.1 Apache-2.0	aes	256	
erlang-inets	erlang	"Erlang/OTP Internet clients and servers Inets is a container for Internet clients and servers. Currently a FTP client a HTTP client and server and a TFTP client and server are provided in Inets."	LGPL-2.1 Apache-2.0	diffiehellman	unlimited	
erlang-inets	erlang	"Erlang/OTP Internet clients and servers Inets is a container for Internet clients and servers. Currently a FTP client a HTTP client and server and a TFTP client and server are provided in Inets."	LGPL-2.1 Apache-2.0	blowfish	448	
erlang-inets	erlang	"Erlang/OTP Internet clients and servers Inets is a container for Internet clients and servers. Currently a FTP client a HTTP client and server and a TFTP client and server are provided in Inets."	LGPL-2.1 Apache-2.0	sha	512	
erlang-inets	erlang	"Erlang/OTP Internet clients and servers Inets is a container for Internet clients and servers. Currently a FTP client a HTTP client and server and a TFTP client and server are provided in Inets."	LGPL-2.1 Apache-2.0	hmac	160	
erlang-inets	erlang	"Erlang/OTP Internet clients and servers Inets is a container for Internet clients and servers. Currently a FTP client a HTTP client and server and a TFTP client and server are provided in Inets."	LGPL-2.1 Apache-2.0	md5	128	
python-kolla-mesos	kolla-mesos	"Kolla-Mesos provides Mesos deployment of Kolla Docker containers to meet Kolla's mission. Kolla-Mesos is highly opinionated out of the box but allows for complete customization. This permits operators with minimal experience to deploy OpenStack quickly and as experience grows modify the OpenStack configuration to suit the operator's exact requirements. . This package provides the Python code."	Apache-2.0			
python-tempest-lib-doc	python-tempest-lib	"OpenStack Functional Testing Library - doc This package contains the OpenStack Functional Testing Library which is used by the Tempest Functional Testing suite. . This package contains the documentation."	Apache-2.0			
fuel-misc	fuel-library9.0	"Misc Fuel library scripts"	unknown			
python-neutron-fwaas	neutron-fwaas	"Firewall-as-a-Service driver for OpenStack Neutron Neutron is a virtual network service for Openstack and a part of Netstack. Just like OpenStack Nova provides an API to dynamically request and configure virtual servers Neutron provides an API to dynamically request and configure virtual networks. These networks connect "interfaces" from other OpenStack services (e.g. virtual NICs from Nova VMs). The Neutron API supports extensions to provide advanced network capabilities (e.g. QoS ACLs network monitoring etc.) . This package provices the Firewall-as-a-Service driver for Neutron."	Apache-2.0			



Package name	Source	Package Description	Package License	Encryption types	Encryption Max Key Length	Comment
python-xstatic-magic-search	python-xstatic-magic-search	"Magic-Search XStatic support - Python 2.x XStatic is a Python web development tool for handling required static data files from external projects such as CSS images and JavaScript. It provides a lightweight infrastructure to manage them via Python modules that your app can depend on in a portable virtualenv-friendly way instead of using embedded copies. . MagicSearch is an AngularJS directive that provides a UI for both faceted filtering and as-you-type filtering. It is intended for filtering tables such as an AngularJS smart-table but it can be used in any situation where you can provide it with facets/options and consume its events. . MagicSearch was initially developed by David Kavanagh for Eucalyptus. . This package contains the Python 2.x module."	Apache-2.0			
cinder-doc	cinder	"OpenStack block storage system - doc Cinder is a block Storage-as-a-Service system for the OpenStack cloud computing suite. It re-implements the features of Nova-volume which it directly replaces. . Cinder uses LVM partitions of your volume servers in order to provide iSCSI permanent block storage devices for your virtual machines running on Nova. It also has back-end drivers for many hardware and software storage solutions like Ceph NFS Net-APP etc. . This package contains the documentation."	Apache-2.0			
aodh-evaluator	aodh	"OpenStack Telemetry (Ceilometer) Alarming - alarm evaluator Ceilometer aims to deliver a Single Point Of Contact for billing systems providing all the counters they need to establish customer billing across all current and future OpenStack components. The delivery of counters must be traceable and auditable the counters must be easily extensible to support new projects and agents doing data collections should be independent of the overall system. . (A ceilometer is an instrument that measures cloud coverage.) . This package contains the alarm evaluator daemon."	Apache-2.0			
murano-glance-artifacts-plugin	murano	"An artifact plugin for murano packages - used with Glance Murano Project introduces an application catalog which allows application developers and cloud administrators to publish various cloud-ready applications in a browsable categorised catalog which may be used by the cloud users (including the inexperienced ones) to pick-up the needed applications and services and composes the reliable environments out of them in a "push-the-button" manner. . This package contains an artifact plugin for murano packages."	Apache-2.0			

Package name	Source	Package Description	Package License	Encryption types	Encryption Max Key Length	Comment
python3-xstatic-bootstrap-datepicker	python-xstatic-bootstrap-datepicker	"Bootstrap-Datepicker XStatic support - Python 3.x XStatic is a packaging standard to package external (often 3rd party) static files as a Python package so they are easily usable on all operating systems with any package management system or even without one. . Many Python projects need to use some specific data files like javascript css java applets images etc. Sometimes these files belong to YOUR project (then you may want to package them separately but you could also just put them into your main package). But in many other cases those files are maintained by someone else (like jQuery javascript library or even much bigger js libraries or applications) and you definitely do not really want to merge them into your project. So you want to have static file packages but you don't want to get lots of stuff you do not want. Thus stuff required by XStatic file packages (especially the main toplevel XStatic package) tries to obey to be a MINIMAL no-fat thing. XStatic doesn't "sell" any web framework or other stuff you don't want. Maybe there will be optional XStatic extensions for all sorts of stuff but they won't be required if you just want the files. . By having static files in packages it is also easier to build virtual envs support linux/bsd/... distribution package maintainers and even windows installs using the same mechanism. . This package provides Bootstrap-Datepicker support as a Python 3.x module."	Apache-2.0			
python-oslo.i18n	python-oslo.i18n	"Oslo Internationalization Utilities - Python 2.x The oslo.i18n library contain utilities for working with internationalization (i18n) features especially translation for text strings in an application or library. . This package contains the Python 2.x module."	Apache-2.0			
python3-posix-ipc	python-posix-ipc	"semaphores shared memory and message queues - Python 3.x posix_ipc is a Python module (written in C) that permits creation and manipulation of POSIX inter-process semaphores shared memory and message queues on platforms supporting the POSIX Realtime Extensions a.k.a. POSIX 1003.1b-1993. This includes nearly all Unices and Windows + Cygwin 1.7. . This package contains the Python 3.x module."	BSD-3-Clause			
python-logilab-common	logilab-common	"useful miscellaneous modules used by Logilab projects logilab-common is a collection of low-level Python packages and modules A designed to ease: . * handling command line options and configuration files * writing interactive command line tools * manipulation files and character strings * interfacing to OmniORB * generating SQL queries * running unit tests * manipulating tree structures * accessing RDBMS (currently postgresSQL MySQL and sqlite) * generating text and HTML reports * logging * parsing XML processing instructions"	LGPL-2.1			
pypy-ipaddress	python-ipaddress	"Backport of Python 3 ipaddress module (PyPy) This module is a backport of the stdlib "ipaddress" module from Python 3. The "ipaddress" module is in turn based off of the "ipaddr" module available in the "python-ipaddr" but there are some important API differences; make sure you are using the right module. . This package contains the PyPy module."	Unknown			

Package name	Source	Package Description	Package License	Encryption types	Encryption Max Key Length	Comment
qpido-proton-dump	qpido-proton	"Qpid Proton messaging tools Qpid Proton is a high-performance lightweight messaging library. It can be used in the widest range of messaging applications including brokers client libraries routers bridges proxies and more. Proton makes it trivial to integrate with the AMQP 1.0 ecosystem from any platform environment or language. . This package provides the Qpid Proton dump tool."	GPL-2.0+ GPL-2.0 BSD-3-Clause Apache-2.0			
python3-testtools	python-testtools	"Extensions to the Python unittest library - Python 3.x testtools (formerly pyunit3k) is a set of extensions to the Python standard library's unit testing framework. These extensions have been derived from years of experience with unit testing in Python and come from many different sources. It's hoped that these extensions will make their way into the standard library eventually. Also included are backports from Python trunk of unittest features that are not otherwise available to existing unittest users. . This package contains the libraries for Python 3.x."	MIT			
python-mysqldb-dbg	python-mysqldb	"Python interface to MySQL (debug extension) MySQLclient is an interface to the popular MySQL database server for Python. . This is a fork of MySQLdb. It add Python 3.3 support and merges some pull requests. . This package contains modules for all Python 2.x versions supported in Debian built for Python debug interpreter."	GPL-2.0+ GPL-2.0			
python-oslo.i18n-doc	python-oslo.i18n	"Oslo Internationalization Utilities - doc The oslo.i18n library contain utilities for working with internationalization (i18n) features especially translation for text strings in an application or library. . This package contains the documentation."	Apache-2.0			
neutron-linuxbridge-agent	neutron	"OpenStack virtual network service - Linux bridge agent Neutron provides an API to dynamically request and configure virtual networks. These networks connect "interfaces" from other OpenStack services (such as vNICs from Nova VMs). The Neutron API supports extensions to provide advanced network capabilities including QoS ACLs and network monitoring. . This package provides the Linux bridge agent. If you choose to use the Linux bridge plugin on neutron-server this agent should run on each compute node."	Apache-2.0			
python-repoze.who	python-repoze.who	"ident and auth framework for Python WSGI applications - Python 2.x repoze.who is an identification and authentication framework for arbitrary Python WSGI applications; it acts as WSGI middleware. . repoze.who is inspired by Zope 2's Pluggable Authentication Service (PAS) but is not dependent on Zope in any way; it is useful for any WSGI application. . It provides no facility for authorization (ensuring whether a user can or cannot perform the operation implied by the request). This is considered to be the domain of the WSGI application. . This package contains the Python 2.x module."	GPL-3.0			
python-portlocker	portlocker	"easy API to file locking (Python 2) Portlocker is a cross-platform library to provide an easy API to file locking. . This is the Python 2 version of the package."	Unknown			

Package name	Source	Package Description	Package License	Encryption types	Encryption Max Key Length	Comment
libtotem-pg-dev	corosync	"Standards-based cluster framework Totem devel files Corosync is a project to implement a production quality "Revised BSD" licensed implementation of all core functionalities required by openais. The project implements cutting edge research on virtual synchrony to provide 100% correct operation in the face of failures or partitionable networks with excellent performance characteristics. . The Application Interface Specification is a software API and policies which are used to develop applications that maintain service during faults. . This package contains the devel files of Totem-PG a library which is part of Corosync."	Public Domain			
librados2-dbg	ceph	"debugging symbols for librados2 RADOS is a reliable autonomic distributed object storage cluster developed as part of the Ceph distributed storage system. This is a shared library allowing applications to access the distributed object store using a simple file-like interface. . This package contains debugging symbols for librados2."	GPL-2.0+ GPL-2.0 GPL-3.0 LGPL-2.0 LGPL-2.1 BSD-2-Clause BSD-3-Clause Public Domain Apache-2.0	crush	unlimited	cephhash
librados2-dbg	ceph	"debugging symbols for librados2 RADOS is a reliable autonomic distributed object storage cluster developed as part of the Ceph distributed storage system. This is a shared library allowing applications to access the distributed object store using a simple file-like interface. . This package contains debugging symbols for librados2."	GPL-2.0+ GPL-2.0 GPL-3.0 LGPL-2.0 LGPL-2.1 BSD-2-Clause BSD-3-Clause Public Domain Apache-2.0	sha	512	
librados2-dbg	ceph	"debugging symbols for librados2 RADOS is a reliable autonomic distributed object storage cluster developed as part of the Ceph distributed storage system. This is a shared library allowing applications to access the distributed object store using a simple file-like interface. . This package contains debugging symbols for librados2."	GPL-2.0+ GPL-2.0 GPL-3.0 LGPL-2.0 LGPL-2.1 BSD-2-Clause BSD-3-Clause Public Domain Apache-2.0	aes	256	
librados2-dbg	ceph	"debugging symbols for librados2 RADOS is a reliable autonomic distributed object storage cluster developed as part of the Ceph distributed storage system. This is a shared library allowing applications to access the distributed object store using a simple file-like interface. . This package contains debugging symbols for librados2."	GPL-2.0+ GPL-2.0 GPL-3.0 LGPL-2.0 LGPL-2.1 BSD-2-Clause BSD-3-Clause Public Domain Apache-2.0	abacus	0	
librados2-dbg	ceph	"debugging symbols for librados2 RADOS is a reliable autonomic distributed object storage cluster developed as part of the Ceph distributed storage system. This is a shared library allowing applications to access the distributed object store using a simple file-like interface. . This package contains debugging symbols for librados2."	GPL-2.0+ GPL-2.0 GPL-3.0 LGPL-2.0 LGPL-2.1 BSD-2-Clause BSD-3-Clause Public Domain Apache-2.0	md5	128	
python3-troveclient	python-troveclient	"Client for OpenStack Database as a Service - Python 3.x Trove is Database as a Service for OpenStack. It's designed to run entirely on OpenStack with the goal of allowing users to quickly and easily utilize the features of a relational database without the burden of handling complex administrative tasks. Cloud users and database administrators can provision and manage multiple database instances as needed. . This package contains the Python 3.x module."	Apache-2.0			

Package name	Source	Package Description	Package License	Encryption types	Encryption Max Key Length	Comment
python-ironicclient-doc	python-ironicclient	"Client for OpenStack bare metal Service - doc Ironic provision bare metal machines instead of virtual machines. It is a fork of the Nova Baremetal driver. It is best thought of as a bare metal hypervisor API and a set of plugins which interact with the bare metal hypervisors. By default it will use PXE and IPMI in concert to provision and turn on/off machines but Ironic also supports vendor-specific plugins which may implement additional functionality. . This is a client for the OpenStack Ironic API. There's a Python API (the "ironicclient" module) and a command-line script ("ironic"). . Installing this package gets you a shell command that you can use to interact with Ironic's API. . This package provides the documentation."	Apache-2.0			
python-memcache	python-memcache	"pure Python memcached client This software is a 100% Python interface to the memcached memory cache daemon. It is the client side software which allows storing values in one or more possibly remote memcached servers. . This package contains the Python 2.x module."	BSD-3-Clause			
python3-requestsexceptions	python-requestsexceptions	"import exceptions from bundled packages in requests. - Python 3.x The Python requests library bundles the urllib3 library however some software distributions (like Debian) modify requests to remove the bundled library. This makes some operations such as supressing the "insecure platform warning" messages that urllib emits difficult. This is a simple library to find the correct path to exceptions in the requests library regardless of whether they are bundled. . This package contains the Python 3.x module."	Apache-2.0			
python-kerberos	pykerberos	"GSSAPI interface module - Python 2.x This Python package is a high-level wrapper for Kerberos (GSSAPI) operations. The goal is to avoid having to build a module that wraps the entire Kerberos.framework and instead offer a limited set of functions that do what is needed for client/server Kerberos authentication based on <http://www.ietf.org/rfc/rfc4559.txt>. . Much of the C-code here is adapted from Apache's mod_auth_kerb-5.0rc7. . This package contains the Python 2.x module."	Apache-2.0			
python3-pyngus	python-pyngus	"callback API implemented over Proton - Python 3.x Pyngus is a messaging framework built on the QPID Proton engine. It provides a callback-based API for message passing. . This package contains the Python 3.x module."	Apache-2.0			
erlang-ic-java	erlang	"Erlang/OTP IDL compiler (Java classes) The IC application is an Erlang implementation of an IDL (CORBA Interface Definition Language) compiler. Depending on the choice of back-end the code will map to Erlang C or Java. The compiler generates client stubs and server skeletons. . This package includes classes for Java-Erlang communication."	LGPL-2.1 Apache-2.0	aes	256	
erlang-ic-java	erlang	"Erlang/OTP IDL compiler (Java classes) The IC application is an Erlang implementation of an IDL (CORBA Interface Definition Language) compiler. Depending on the choice of back-end the code will map to Erlang C or Java. The compiler generates client stubs and server skeletons. . This package includes classes for Java-Erlang communication."	LGPL-2.1 Apache-2.0	diffiehellman	unlimited	

Package name	Source	Package Description	Package License	Encryption types	Encryption Max Key Length	Comment
erlang-ic-java	erlang	"Erlang/OTP IDL compiler (Java classes) The IC application is an Erlang implementation of an IDL (CORBA Interface Definition Language) compiler. Depending on the choice of back-end the code will map to Erlang C or Java. The compiler generates client stubs and server skeletons. . This package includes classes for Java-Erlang communication."	LGPL-2.1 Apache-2.0	blowfish	448	
erlang-ic-java	erlang	"Erlang/OTP IDL compiler (Java classes) The IC application is an Erlang implementation of an IDL (CORBA Interface Definition Language) compiler. Depending on the choice of back-end the code will map to Erlang C or Java. The compiler generates client stubs and server skeletons. . This package includes classes for Java-Erlang communication."	LGPL-2.1 Apache-2.0	sha	512	
erlang-ic-java	erlang	"Erlang/OTP IDL compiler (Java classes) The IC application is an Erlang implementation of an IDL (CORBA Interface Definition Language) compiler. Depending on the choice of back-end the code will map to Erlang C or Java. The compiler generates client stubs and server skeletons. . This package includes classes for Java-Erlang communication."	LGPL-2.1 Apache-2.0	hmac	160	
erlang-ic-java	erlang	"Erlang/OTP IDL compiler (Java classes) The IC application is an Erlang implementation of an IDL (CORBA Interface Definition Language) compiler. Depending on the choice of back-end the code will map to Erlang C or Java. The compiler generates client stubs and server skeletons. . This package includes classes for Java-Erlang communication."	LGPL-2.1 Apache-2.0	md5	128	
python-django-pyscss	python-django-pyscss	"makes it easier to use PySCSS in Django - Python 2.7 Django-pyscss is a collection of tools for making it easier to use pyScss within Django. It overwrites the import system to use Django's staticfiles app. This way you can import SCSS files from any app (or any file that's findable by the STATICFILES_FINDERS) with no hassle. It provides a django-compressor precompile filter class so that you can easily use pyScss with django-compressor without having to bust out to the shell. This has the added benefit of removing the need to configure pyScss through its command-line arguments AND makes it possible for the exceptions and warnings that pyScss emits to bubble up to your process so that you can actually know what's going on. . This package contains the Python 2.7 module."	BSD-2-Clause			
erlang-megaco	erlang	"Erlang/OTP implementation of Megaco/H.248 protocol The Megaco application is a framework for building applications on top of the Megaco/H.248 protocol."	LGPL-2.1 Apache-2.0	aes	256	
erlang-megaco	erlang	"Erlang/OTP implementation of Megaco/H.248 protocol The Megaco application is a framework for building applications on top of the Megaco/H.248 protocol."	LGPL-2.1 Apache-2.0	diffiehellman	unlimited	
erlang-megaco	erlang	"Erlang/OTP implementation of Megaco/H.248 protocol The Megaco application is a framework for building applications on top of the Megaco/H.248 protocol."	LGPL-2.1 Apache-2.0	blowfish	448	
erlang-megaco	erlang	"Erlang/OTP implementation of Megaco/H.248 protocol The Megaco application is a framework for building applications on top of the Megaco/H.248 protocol."	LGPL-2.1 Apache-2.0	sha	512	
erlang-megaco	erlang	"Erlang/OTP implementation of Megaco/H.248 protocol The Megaco application is a framework for building applications on top of the Megaco/H.248 protocol."	LGPL-2.1 Apache-2.0	hmac	160	
erlang-megaco	erlang	"Erlang/OTP implementation of Megaco/H.248 protocol The Megaco application is a framework for building applications on top of the Megaco/H.248 protocol."	LGPL-2.1 Apache-2.0	md5	128	

Package name	Source	Package Description	Package License	Encryption types	Encryption Max Key Length	Comment
python-oslo.policy-doc	python-oslo.policy	"RBAC policy enforcement library for OpenStack - doc Oslo.policy provides a Role Based Access Control policy enforcement library for OpenStack. . This package contains the documentation."	Apache-2.0			
libstonithd2	pacemaker	"cluster resource manager STONITH daemon library At its core Pacemaker is a distributed finite state machine capable of co-ordinating the startup and recovery of inter-related services across a set of machines. . Pacemaker understands many different resource types (OCF SYSV systemd) and can accurately model the relationships between them (colocation ordering). . It can even use technology such as Docker to automatically isolate the resources managed by the cluster. . This package contains the STONITH daemon library."	GPL-2.0+ GPL-2.0 LGPL-2.1	md5	128	
qemu-block-extra	qemu	"extra block backend modules for qemu-system and qemu-utils QEMU is a fast processor emulator: currently the package supports ARM CRIS i386 M68k (ColdFire) MicroBlaze MIPS PowerPC SH4 SPARC and x86-64 emulation. By using dynamic translation it achieves reasonable speed while being easy to port on new host CPUs. . This package provides extra block device backend modules for qemu-system emulation and qemu-img from qemu-utils package which are rarely used and has extra dependencies."	GPL-2.0 MIT	crypt	65	
qemu-block-extra	qemu	"extra block backend modules for qemu-system and qemu-utils QEMU is a fast processor emulator: currently the package supports ARM CRIS i386 M68k (ColdFire) MicroBlaze MIPS PowerPC SH4 SPARC and x86-64 emulation. By using dynamic translation it achieves reasonable speed while being easy to port on new host CPUs. . This package provides extra block device backend modules for qemu-system emulation and qemu-img from qemu-utils package which are rarely used and has extra dependencies."	GPL-2.0 MIT	aes	256	
qemu-block-extra	qemu	"extra block backend modules for qemu-system and qemu-utils QEMU is a fast processor emulator: currently the package supports ARM CRIS i386 M68k (ColdFire) MicroBlaze MIPS PowerPC SH4 SPARC and x86-64 emulation. By using dynamic translation it achieves reasonable speed while being easy to port on new host CPUs. . This package provides extra block device backend modules for qemu-system emulation and qemu-img from qemu-utils package which are rarely used and has extra dependencies."	GPL-2.0 MIT	des	56	
qemu-block-extra	qemu	"extra block backend modules for qemu-system and qemu-utils QEMU is a fast processor emulator: currently the package supports ARM CRIS i386 M68k (ColdFire) MicroBlaze MIPS PowerPC SH4 SPARC and x86-64 emulation. By using dynamic translation it achieves reasonable speed while being easy to port on new host CPUs. . This package provides extra block device backend modules for qemu-system emulation and qemu-img from qemu-utils package which are rarely used and has extra dependencies."	GPL-2.0 MIT	tripleDES	168	

Package name	Source	Package Description	Package License	Encryption types	Encryption Max Key Length	Comment
qemu-block-extra	qemu	"extra block backend modules for qemu-system and qemu-utils QEMU is a fast processor emulator: currently the package supports ARM CRIS i386 M68k (ColdFire) MicroBlaze MIPS PowerPC SH4 SPARC and x86-64 emulation. By using dynamic translation it achieves reasonable speed while being easy to port on new host CPUs. . This package provides extra block device backend modules for qemu-system emulation and qemu-img from qemu-utils package which are rarely used and has extra dependencies."	GPL-2.0 MIT	sha	512	
python-django-sekizai	django-sekizai	"template blocks for Django projects Sekizai means ?blocks? in Japanese and that?s what this app provides. A fresh look at blocks. With django-sekizai you can define placeholders where your blocks get rendered and at different places in your templates append to those blocks. This is especially useful for css and javascript. Your subtemplates can now define css and javascript files to be included and the css will be nicely put at the top and the javascript to the bottom just like you should. Also sekizai will ignore any duplicate content in a single block."	BSD-3-Clause			
python-oslo.sphinx	oslo-sphinx	"theme and extension support for openstack - transition package Theme and extension support for Sphinx documentation from the OpenStack project. To use the theme simply add 'oslosphinx' to the extensions list in the conf.py file in your Sphinx project. . This is a dummy transition package."	BSD-2-Clause Apache-2.0			
python-requestsexceptions	python-requestsexceptions	"import exceptions from bundled packages in requests. - Python 2.7 The Python requests library bundles the urllib3 library however some software distributions (like Debian) modify requests to remove the bundled library. This makes some operations such as supressing the "insecure platform warning" messages that urllib emits difficult. This is a simple library to find the correct path to exceptions in the requests library regardless of whether they are bundled. . This package contains the Python 2.7 module."	Apache-2.0			
corosync	corosync	"Standards-based cluster framework (daemon and modules) The corosync project is a project to implement a production quality "Revised BSD" licensed implementation of all core functionalities required by openais. The project implements cutting edge research on virtual synchrony to provide 100% correct operation in the face of failures or partitionable networks with excellent performance characteristics. . The Application Interface Specification is a software API and policies which are used to develop applications that maintain service during faults. . This package contains the corosync daemon and modules."	Public Domain			



Package name	Source	Package Description	Package License	Encryption types	Encryption Max Key Length	Comment
swift-container	swift	"distributed virtual object store - container server OpenStack Object Storage (code-named Swift) creates redundant scalable object storage using clusters of standardized servers to store petabytes of accessible data. It is not a file system or real-time data storage system but rather a long-term storage system for a more permanent type of static data that can be retrieved leveraged and then updated if necessary. Primary examples of data that best fit this type of storage model are virtual machine images photo storage email storage and backup archiving. Having no central "brain" or master point of control provides greater scalability redundancy and permanence. . Objects are written to multiple hardware devices in the data center with the OpenStack software responsible for ensuring data replication and integrity across the cluster. Storage clusters can scale horizontally by adding new nodes. Should a node fail OpenStack works to replicate its content from other active nodes. Because OpenStack uses software logic to ensure data replication and distribution across different devices inexpensive commodity hard drives and servers can be used in lieu of more expensive equipment. . This package provides the swift container server."	Apache-2.0			
galera-arbitrator-3	galera-3	"Galera arbitrator daemon Galera is a fast synchronous multimaster wsrep provider (replication engine) for transactional databases and similar applications. For more information about wsrep API see <a href="http://launchpad.net/wsrep">http://launchpad.net/wsrep</a> . For a description of Galera replication engine see <a href="http://galeracluster.com">http://galeracluster.com</a> . . This package contains the Galera arbitrator daemon (garbd)."	GPL-2.0 GFDL-1.3 BSD-3-Clause			
openstack-doc-tools-common	openstack-doc-tools	"tools used by the OpenStack Documentation project - common files This package contains a set of tools used to build the OpenStack documentation (install-guide etc.) in multiple formats: html pdf etc. The input format is a set of XML documents. . This package contains common files for both the Python 2.7 and 3.x packages."	Apache-2.0			
python-requests-whl	requests	"elegant and simple HTTP library for Python built for human beings Requests allow you to send HTTP/1.1 requests. You can add headers form data multipart files and parameters with simple Python dictionaries and access the response data in the same way. It's powered by httplib and urllib3 but it does all the hard work and crazy hacks for you. . Features . - International Domains and URLs - Keep-Alive & Connection Pooling - Sessions with Cookie Persistence - Browser-style SSL Verification - Basic/Digest Authentication - Elegant Key/Value Cookies - Automatic Decompression - Unicode Response Bodies - Multipart File Uploads - Connection Timeouts . This package provides the universal wheel."	GPL-2.0 LGPL-2.1 Apache-2.0			

Package name	Source	Package Description	Package License	Encryption types	Encryption Max Key Length	Comment
libjs-qunit	libjs-qunit	"JavaScript Unit Testing framework QUnit is a powerful easy-to-use JavaScript test suite. It's used by the jQuery project to test its code and plugins but is capable of testing any generic JavaScript code (and even capable of testing JavaScript code on the server-side). . QUnit is especially useful for regression testing: Whenever a bug is reported write a test that asserts the existence of that particular bug. Then fix it and commit both. Every time you work on the code again run the tests. If the bug comes up again - a regression - you'll spot it immediately and know how to fix it because you know what code you just changed. . Having good unit test coverage makes safe refactoring easy and cheap. You can run the tests after each small refactoring step and always know what change broke something. . QUnit is similar to other unit testing frameworks like JUnit but makes use of the features JavaScript provides and helps with testing code in the browser e.g. with its stop/start facilities for testing asynchronous code."	GPL-3.0 BSD-2-Clause MIT			
python3-oslo.utils	python-oslo.utils	"set of utility functions for OpenStack - Python 3.x The Oslo.utils package provides a set of function which are cross-project for OpenStack. For example it provides text decoding exception handling Python module import facility (try_import function) network-related system-level and time utilities and helper functions. . This package contains the Python 3.x module."	Apache-2.0			
python3-scciclient	python-scciclient	"Python ServerView Common Command Interface (SCCI) Client Library - Python 3.x This package provides the Python ServerView Common Command Interface (SCCI) Client Library which support FUJITSU iRMC S4 integrated Remote Management Controller. This Python module may be helpful if you want to use IroniC to manage a FUJITSU server that has this hardware. . This package contains the Python 3.x module."	Apache-2.0			
novnc	novnc	"HTML5 VNC client - daemon and programs noVNC is a HTML5 VNC (WebSockets Canvas) with encryption (wss://) support client that runs well in any modern browser including mobile browsers (iPhone/iPad and Android). More than 16 companies/projects have integrated noVNC into their products including Ganeti Web Manager OpenStack and OpenNebula. . This package contains the daemon and programs."	GPL-2.0 LGPL-2.1 BSD-3-Clause			
<a href="#">python3-oslo.db</a>	<a href="#">python-oslo.db</a>	"database connectivity to the different backends and helper utils - Python 3.x The Oslo database handling library is part of the OpenStack project. It provides database connectivity to the different backends and also provides helper utils. . This package contains the Python 3.x module."	Apache-2.0			
python-suds	suds	"Lightweight SOAP client for Python - Python 2.7 The suds project is a Python soap web services client lib. Suds leverages Python meta programming to provide an intuitive API for consuming web services. Objectification of types defined in the WSDL is provided without class generation. Programmers rarely need to read the WSDL since services and WSDL based objects can be easily inspected. Supports pluggable soap bindings. Note: this package now uses the Suds fork maintained by Jurko Gospodneti?. . This package provides the Python 2.7 module."	Unknown			

Package name	Source	Package Description	Package License	Encryption types	Encryption Max Key Length	Comment
ceilometer-polling	ceilometer	"OpenStack efficient metering counters system - polling service Ceilometer aims to deliver a Single Point Of Contact for billing systems providing all the counters they need to establish customer billing across all current and future OpenStack components. The delivery of counters must be traceable and auditable the counters must be easily extensible to support new projects and agents doing data collections should be independent of the overall system. . (A ceilometer is an instrument that measures cloud coverage.) . This package contains the polling service."	Apache-2.0			
galera-arbitrator-3-dbg	galera-3	"debugging symbols for galera-arbitrator-3 This package contains the debugging symbols for galera-arbitrator-3."	GPL-2.0 GFDL-1.3 BSD-3-Clause			
neutron-lbaasv2-agent	neutron-lbaas	"Neutron is a virtual network service for Openstack - LBaaSv2 agent Neutron is a virtual network service for Openstack and a part of Netstack. Just like OpenStack Nova provides an API to dynamically request and configure virtual servers Neutron provides an API to dynamically request and configure virtual networks. These networks connect "interfaces" from other OpenStack services (e.g. virtual NICs from Nova VMs). The Neutron API supports extensions to provide advanced network capabilities (e.g. QoS ACLs network monitoring etc.) . This package provides the Load Balancing as-a Service v2 (LBaaSv2) agent."	Apache-2.0			
openvswitch-switch-dpdk	openvswitch-dpdk	"DPDK enabled Open vSwitch switch implementation Open vSwitch is a production quality multilayer software-based Ethernet virtual switch. It is designed to enable massive network automation through programmatic extension while still supporting standard management interfaces and protocols (e.g. NetFlow IPFIX sFlow SPAN RSPAN CLI LACP 802.1ag). In addition it is designed to support distribution across multiple physical servers similar to VMware's vNetwork distributed vswitch or Cisco's Nexus 1000V. . openvswitch-switch provides the userspace components and utilities for the Open vSwitch kernel-based switch. . DPDK is a set of libraries for fast packet processing. Applications run in user-space and communicate directly with dedicated network interfaces. This package contains the runtime environment to run DPDK applications. . This package provides a DPDK enabled implementation of the ovs-vswitchd binary."	GPL-2.0 LGPL-2.1 BSD-2-Clause Apache-2.0 ISC	lex	128	
openvswitch-switch-dpdk	openvswitch-dpdk	"DPDK enabled Open vSwitch switch implementation Open vSwitch is a production quality multilayer software-based Ethernet virtual switch. It is designed to enable massive network automation through programmatic extension while still supporting standard management interfaces and protocols (e.g. NetFlow IPFIX sFlow SPAN RSPAN CLI LACP 802.1ag). In addition it is designed to support distribution across multiple physical servers similar to VMware's vNetwork distributed vswitch or Cisco's Nexus 1000V. . openvswitch-switch provides the userspace components and utilities for the Open vSwitch kernel-based switch. . DPDK is a set of libraries for fast packet processing. Applications run in user-space and communicate directly with dedicated network interfaces. This package contains the runtime environment to run DPDK applications. . This package provides a DPDK enabled implementation of the ovs-vswitchd binary."	GPL-2.0 LGPL-2.1 BSD-2-Clause Apache-2.0 ISC	crypt	65	

Package name	Source	Package Description	Package License	Encryption types	Encryption Max Key Length	Comment
openvswitch-switch-dpdk	openvswitch-dpdk	"DPDK enabled Open vSwitch switch implementation Open vSwitch is a production quality multilayer software-based Ethernet virtual switch. It is designed to enable massive network automation through programmatic extension while still supporting standard management interfaces and protocols (e.g. NetFlow IPFIX sFlow SPAN RSPAN CLI LACP 802.1ag). In addition it is designed to support distribution across multiple physical servers similar to VMware's vNetwork distributed vswitch or Cisco's Nexus 1000V. . openvswitch-switch provides the userspace components and utilities for the Open vSwitch kernel-based switch. . DPDK is a set of libraries for fast packet processing. Applications run in user-space and communicate directly with dedicated network interfaces. This package contains the runtime environment to run DPDK applications. . This package provides a DPDK enabled implementation of the ovs-vswitchd binary."	GPL-2.0 LGPL-2.1 BSD-2-Clause Apache-2.0 ISC	aes	256	
openvswitch-switch-dpdk	openvswitch-dpdk	"DPDK enabled Open vSwitch switch implementation Open vSwitch is a production quality multilayer software-based Ethernet virtual switch. It is designed to enable massive network automation through programmatic extension while still supporting standard management interfaces and protocols (e.g. NetFlow IPFIX sFlow SPAN RSPAN CLI LACP 802.1ag). In addition it is designed to support distribution across multiple physical servers similar to VMware's vNetwork distributed vswitch or Cisco's Nexus 1000V. . openvswitch-switch provides the userspace components and utilities for the Open vSwitch kernel-based switch. . DPDK is a set of libraries for fast packet processing. Applications run in user-space and communicate directly with dedicated network interfaces. This package contains the runtime environment to run DPDK applications. . This package provides a DPDK enabled implementation of the ovs-vswitchd binary."	GPL-2.0 LGPL-2.1 BSD-2-Clause Apache-2.0 ISC	sha	512	
openvswitch-switch-dpdk	openvswitch-dpdk	"DPDK enabled Open vSwitch switch implementation Open vSwitch is a production quality multilayer software-based Ethernet virtual switch. It is designed to enable massive network automation through programmatic extension while still supporting standard management interfaces and protocols (e.g. NetFlow IPFIX sFlow SPAN RSPAN CLI LACP 802.1ag). In addition it is designed to support distribution across multiple physical servers similar to VMware's vNetwork distributed vswitch or Cisco's Nexus 1000V. . openvswitch-switch provides the userspace components and utilities for the Open vSwitch kernel-based switch. . DPDK is a set of libraries for fast packet processing. Applications run in user-space and communicate directly with dedicated network interfaces. This package contains the runtime environment to run DPDK applications. . This package provides a DPDK enabled implementation of the ovs-vswitchd binary."	GPL-2.0 LGPL-2.1 BSD-2-Clause Apache-2.0 ISC	md5	128	
fuel-agent	fuel-agent	"fuel image based provisioning agent Fuel agent executes provisioning tasks on the discovery nodes"	Apache-2.0			

Package name	Source	Package Description	Package License	Encryption types	Encryption Max Key Length	Comment
golang-go	golang	"Go programming language compiler linker compiled stdlib The Go programming language is an open source project to make programmers more productive. Go is expressive concise clean and efficient. Its concurrency mechanisms make it easy to write programs that get the most out of multicore and networked machines while its novel type system enables flexible and modular program construction. Go compiles quickly to machine code yet has the convenience of garbage collection and the power of run-time reflection. It's a fast statically typed compiled language that feels like a dynamically typed interpreted language. . This package provides an assembler compiler linker and compiled libraries for the Go programming language. . Go supports cross-compilation but as of Go 1.5 it is no longer necessary to pre-compile the standard library inside GOROOT for cross-compilation to work."	Public Domain Apache-2.0	aes	256	
golang-go	golang	"Go programming language compiler linker compiled stdlib The Go programming language is an open source project to make programmers more productive. Go is expressive concise clean and efficient. Its concurrency mechanisms make it easy to write programs that get the most out of multicore and networked machines while its novel type system enables flexible and modular program construction. Go compiles quickly to machine code yet has the convenience of garbage collection and the power of run-time reflection. It's a fast statically typed compiled language that feels like a dynamically typed interpreted language. . This package provides an assembler compiler linker and compiled libraries for the Go programming language. . Go supports cross-compilation but as of Go 1.5 it is no longer necessary to pre-compile the standard library inside GOROOT for cross-compilation to work."	Public Domain Apache-2.0	rc4	2048	
golang-go	golang	"Go programming language compiler linker compiled stdlib The Go programming language is an open source project to make programmers more productive. Go is expressive concise clean and efficient. Its concurrency mechanisms make it easy to write programs that get the most out of multicore and networked machines while its novel type system enables flexible and modular program construction. Go compiles quickly to machine code yet has the convenience of garbage collection and the power of run-time reflection. It's a fast statically typed compiled language that feels like a dynamically typed interpreted language. . This package provides an assembler compiler linker and compiled libraries for the Go programming language. . Go supports cross-compilation but as of Go 1.5 it is no longer necessary to pre-compile the standard library inside GOROOT for cross-compilation to work."	Public Domain Apache-2.0	crypt	65	

Package name	Source	Package Description	Package License	Encryption types	Encryption Max Key Length	Comment
golang-go	golang	"Go programming language compiler linker compiled stdlib The Go programming language is an open source project to make programmers more productive. Go is expressive concise clean and efficient. Its concurrency mechanisms make it easy to write programs that get the most out of multicore and networked machines while its novel type system enables flexible and modular program construction. Go compiles quickly to machine code yet has the convenience of garbage collection and the power of run-time reflection. It's a fast statically typed compiled language that feels like a dynamically typed interpreted language. . This package provides an assembler compiler linker and compiled libraries for the Go programming language. . Go supports cross-compilation but as of Go 1.5 it is no longer necessary to pre-compile the standard library inside GOROOT for cross-compilation to work."	Public Domain Apache-2.0	des	56	
golang-go	golang	"Go programming language compiler linker compiled stdlib The Go programming language is an open source project to make programmers more productive. Go is expressive concise clean and efficient. Its concurrency mechanisms make it easy to write programs that get the most out of multicore and networked machines while its novel type system enables flexible and modular program construction. Go compiles quickly to machine code yet has the convenience of garbage collection and the power of run-time reflection. It's a fast statically typed compiled language that feels like a dynamically typed interpreted language. . This package provides an assembler compiler linker and compiled libraries for the Go programming language. . Go supports cross-compilation but as of Go 1.5 it is no longer necessary to pre-compile the standard library inside GOROOT for cross-compilation to work."	Public Domain Apache-2.0	rsa	unlimited	typically <=8192
golang-go	golang	"Go programming language compiler linker compiled stdlib The Go programming language is an open source project to make programmers more productive. Go is expressive concise clean and efficient. Its concurrency mechanisms make it easy to write programs that get the most out of multicore and networked machines while its novel type system enables flexible and modular program construction. Go compiles quickly to machine code yet has the convenience of garbage collection and the power of run-time reflection. It's a fast statically typed compiled language that feels like a dynamically typed interpreted language. . This package provides an assembler compiler linker and compiled libraries for the Go programming language. . Go supports cross-compilation but as of Go 1.5 it is no longer necessary to pre-compile the standard library inside GOROOT for cross-compilation to work."	Public Domain Apache-2.0	shacal	User Specified	

Package name	Source	Package Description	Package License	Encryption types	Encryption Max Key Length	Comment
golang-go	golang	"Go programming language compiler linker compiled stdlib The Go programming language is an open source project to make programmers more productive. Go is expressive concise clean and efficient. Its concurrency mechanisms make it easy to write programs that get the most out of multicore and networked machines while its novel type system enables flexible and modular program construction. Go compiles quickly to machine code yet has the convenience of garbage collection and the power of run-time reflection. It's a fast statically typed compiled language that feels like a dynamically typed interpreted language. . This package provides an assembler compiler linker and compiled libraries for the Go programming language. . Go supports cross-compilation but as of Go 1.5 it is no longer necessary to pre-compile the standard library inside GOROOT for cross-compilation to work."	Public Domain Apache-2.0	sha	512	
golang-go	golang	"Go programming language compiler linker compiled stdlib The Go programming language is an open source project to make programmers more productive. Go is expressive concise clean and efficient. Its concurrency mechanisms make it easy to write programs that get the most out of multicore and networked machines while its novel type system enables flexible and modular program construction. Go compiles quickly to machine code yet has the convenience of garbage collection and the power of run-time reflection. It's a fast statically typed compiled language that feels like a dynamically typed interpreted language. . This package provides an assembler compiler linker and compiled libraries for the Go programming language. . Go supports cross-compilation but as of Go 1.5 it is no longer necessary to pre-compile the standard library inside GOROOT for cross-compilation to work."	Public Domain Apache-2.0	lex	128	
golang-go	golang	"Go programming language compiler linker compiled stdlib The Go programming language is an open source project to make programmers more productive. Go is expressive concise clean and efficient. Its concurrency mechanisms make it easy to write programs that get the most out of multicore and networked machines while its novel type system enables flexible and modular program construction. Go compiles quickly to machine code yet has the convenience of garbage collection and the power of run-time reflection. It's a fast statically typed compiled language that feels like a dynamically typed interpreted language. . This package provides an assembler compiler linker and compiled libraries for the Go programming language. . Go supports cross-compilation but as of Go 1.5 it is no longer necessary to pre-compile the standard library inside GOROOT for cross-compilation to work."	Public Domain Apache-2.0	hmac	160	

Package name	Source	Package Description	Package License	Encryption types	Encryption Max Key Length	Comment
golang-go	golang	"Go programming language compiler linker compiled stdlib The Go programming language is an open source project to make programmers more productive. Go is expressive concise clean and efficient. Its concurrency mechanisms make it easy to write programs that get the most out of multicore and networked machines while its novel type system enables flexible and modular program construction. Go compiles quickly to machine code yet has the convenience of garbage collection and the power of run-time reflection. It's a fast statically typed compiled language that feels like a dynamically typed interpreted language. . This package provides an assembler compiler linker and compiled libraries for the Go programming language. . Go supports cross-compilation but as of Go 1.5 it is no longer necessary to pre-compile the standard library inside GOROOT for cross-compilation to work."	Public Domain Apache-2.0	md5	128	
sahara-common	sahara	"OpenStack data processing cluster as a service - common files The Sahara project provides a simple means to provision a data-intensive application cluster (Hadoop or Spark) on top of OpenStack. It's the ex Savanna project renamed due to potential trademark issues. . This package contains the common files."	Apache-2.0			
python-zmq	pyzmq	"Python bindings for 0MQ library Python bindings for 0MQ. 0MQ is a small fast and free software library that gives you message-passing concurrency for applications in most common languages. . The 0MQ lightweight messaging kernel is a library which extends the standard socket interfaces with features traditionally provided by specialised messaging middleware products. 0MQ sockets provide an abstraction of asynchronous message queues multiple messaging patterns message filtering (subscriptions) seamless access to multiple transport protocols and more."	LGPL-2.1 BSD-3-Clause Apache-2.0			
python-positional	python-positional	"A decorator which enforces only some args may be passed positionally. Positional provides a decorator which enforces only some args may be passed positionally. The idea and some of the code was taken from the oauth2 client of the google-api client. . This package contains the Python 2.x module."	Apache-2.0			
python-oslo-context-doc	python-oslo.context	"transitional dummy package for python-oslo-context-doc This transitional package is safe to remove and use python-oslo.context-doc instead."	Apache-2.0			
erlang-xmerl	erlang	"Erlang/OTP XML tools The xmerl application contains modules for processing XML."	LGPL-2.1 Apache-2.0	aes	256	
erlang-xmerl	erlang	"Erlang/OTP XML tools The xmerl application contains modules for processing XML."	LGPL-2.1 Apache-2.0	diffiehellman	unlimited	
erlang-xmerl	erlang	"Erlang/OTP XML tools The xmerl application contains modules for processing XML."	LGPL-2.1 Apache-2.0	blowfish	448	
erlang-xmerl	erlang	"Erlang/OTP XML tools The xmerl application contains modules for processing XML."	LGPL-2.1 Apache-2.0	sha	512	
erlang-xmerl	erlang	"Erlang/OTP XML tools The xmerl application contains modules for processing XML."	LGPL-2.1 Apache-2.0	hmac	160	
erlang-xmerl	erlang	"Erlang/OTP XML tools The xmerl application contains modules for processing XML."	LGPL-2.1 Apache-2.0	md5	128	
python-pretend	python-pretend	"Python library for stubbing (Python 2) Pretend is a library to make stubbing with Python easier. . Stubbing is a technique for writing tests. You may hear the term mixed up with mocks fakes or doubles. Basically a stub is an object that returns pre-canned responses rather than doing any computation. . This package contains the Python 2 version of pretend."	BSD-3-Clause			



Package name	Source	Package Description	Package License	Encryption types	Encryption Max Key Length	Comment
python-pathlib-doc	python-pathlib	"set of Python 2 classes to handle filesystem paths (Documentation) Pathlib offers a set of classes to handle filesystem paths. It offers the following advantages over using string objects: . * No more cumbersome use of os and os.path functions. Everything can be done easily through operators attribute accesses and method calls. * Embodies the semantics of different path types. For example comparing Windows paths ignores casing. * Well-defined semantics eliminating any warts or ambiguities (forward vs. backward slashes etc.). . This package includes the documentation in HTML and TXT format."	MIT			
iperf3	iperf3	"Internet Protocol bandwidth measuring tool Iperf3 is a tool for performing network throughput measurements. It can test either TCP or UDP throughput. . This is a new implementation that shares no code with the original iperf from NLNR/DAST and also is not backwards compatible. . This package contains the command line utility."	GPL-2.0+ GPL-2.0 BSD-3-Clause MIT Public Domain			
rabbitmq-server	rabbitmq-server	"AMQP server written in Erlang RabbitMQ is an implementation of AMQP the emerging standard for high performance enterprise messaging. The RabbitMQ server is a robust and scalable implementation of an AMQP broker."	BSD-2-Clause Apache-2.0	sha	512	
rabbitmq-server	rabbitmq-server	"AMQP server written in Erlang RabbitMQ is an implementation of AMQP the emerging standard for high performance enterprise messaging. The RabbitMQ server is a robust and scalable implementation of an AMQP broker."	BSD-2-Clause Apache-2.0	rsa	unlimited	typically <=8192
python-sphinxcontrib-programoutput	sphinxcontrib-programoutput	"insert the output of arbitrary commands into documents - transitional package sphinxcontrib-programoutput is a Sphinx extension to literally insert the output of arbitrary commands into documents helping you to keep your command examples up to date. . This package is a dummy transitional package."	BSD-2-Clause			
heat-api-cloudwatch	heat	"OpenStack orchestration service - CloudWatch API Heat is a service to orchestrate multiple composite cloud applications using templates through both an OpenStack-native ReST API and a CloudFormation-compatible Query API. . This package contains the CloudWatch API."	Apache-2.0			
cirros-testvmware	cirros-testvmware	"Cirros Test VM image (VMDK format)"	unknown			
ceilometer-collector	ceilometer	"OpenStack efficient metering counters system - collector service Ceilometer aims to deliver a Single Point Of Contact for billing systems providing all the counters they need to establish customer billing across all current and future OpenStack components. The delivery of counters must be traceable and auditable the counters must be easily extensible to support new projects and agents doing data collections should be independent of the overall system. . (A ceilometer is an instrument that measures cloud coverage.) . This package contains the collector service."	Apache-2.0			
libcacard-tools	qemu	"Virtual Common Access Card (CAC) Emulator (tools) This emulator is designed to provide emulation of actual smart cards to a virtual card reader running in a guest virtual machine. The emulated smart cards can be representations of real smart cards where the necessary functions such as signing card removal/insertion etc. are mapped to real physical cards which are shared with the client machine the emulator is running on or the cards could be pure software constructs. . This package provides tools for the libcacard library (currently vscclient)."	GPL-2.0 MIT	crypt	65	

Package name	Source	Package Description	Package License	Encryption types	Encryption Max Key Length	Comment
libcacard-tools	qemu	"Virtual Common Access Card (CAC) Emulator (tools) This emulator is designed to provide emulation of actual smart cards to a virtual card reader running in a guest virtual machine. The emulated smart cards can be representations of real smart cards where the necessary functions such as signing card removal/insertion etc. are mapped to real physical cards which are shared with the client machine the emulator is running on or the cards could be pure software constructs. . This package provides tools for the libcacard library (currently vscclient)."	GPL-2.0 MIT	aes	256	
libcacard-tools	qemu	"Virtual Common Access Card (CAC) Emulator (tools) This emulator is designed to provide emulation of actual smart cards to a virtual card reader running in a guest virtual machine. The emulated smart cards can be representations of real smart cards where the necessary functions such as signing card removal/insertion etc. are mapped to real physical cards which are shared with the client machine the emulator is running on or the cards could be pure software constructs. . This package provides tools for the libcacard library (currently vscclient)."	GPL-2.0 MIT	des	56	
libcacard-tools	qemu	"Virtual Common Access Card (CAC) Emulator (tools) This emulator is designed to provide emulation of actual smart cards to a virtual card reader running in a guest virtual machine. The emulated smart cards can be representations of real smart cards where the necessary functions such as signing card removal/insertion etc. are mapped to real physical cards which are shared with the client machine the emulator is running on or the cards could be pure software constructs. . This package provides tools for the libcacard library (currently vscclient)."	GPL-2.0 MIT	tripledes	168	
libcacard-tools	qemu	"Virtual Common Access Card (CAC) Emulator (tools) This emulator is designed to provide emulation of actual smart cards to a virtual card reader running in a guest virtual machine. The emulated smart cards can be representations of real smart cards where the necessary functions such as signing card removal/insertion etc. are mapped to real physical cards which are shared with the client machine the emulator is running on or the cards could be pure software constructs. . This package provides tools for the libcacard library (currently vscclient)."	GPL-2.0 MIT	sha	512	
glance-api	glance	"OpenStack Image Registry and Delivery Service - API server The Glance project provides services for discovering registering and retrieving virtual machine images over the cloud. They may be stand-alone services or may be used to deliver images from object stores such as OpenStack's Swift service to Nova's compute nodes. . This package contains the Glance API server."	Apache-2.0			

Package name	Source	Package Description	Package License	Encryption types	Encryption Max Key Length	Comment
python-pysaml2	python-pysaml2	"SAML Version 2 to be used in a WSGI environment - Python 2.x This package provides a Python implementation of SAML Version 2 to be used in a WSGI environment. . From wikipedia: Security Assertion Markup Language 2.0 (SAML 2.0) is a version of the SAML standard for exchanging authentication and authorization data between security domains. SAML 2.0 is an XML-based protocol that uses security tokens containing assertions to pass information about a principal (usually an end user) between a SAML authority that is an identity provider and a SAML consumer that is a service provider. SAML 2.0 enables web-based authentication and authorization scenarios including cross-domain single sign-on (SSO) which helps reduce the administrative overhead of distributing multiple authentication tokens to the user. . This package contains the Python 2.x module."	BSD-2-Clause Apache-2.0			
pypy-sqlparse	sqlparse	"non-validating SQL parser for PyPy Sqlparse is a library which provides support for parsing splitting and customizable formatting of SQL statements in Python environment. . This is the PyPy version of the package."	GPL-2.0 BSD-2-Clause			
python3-ironicclient	python-ironicclient	"Client for OpenStack bare metal Service - Python 3.x Ironic provision bare metal machines instead of virtual machines. It is a fork of the Nova Baremetal driver. It is best thought of as a bare metal hypervisor API and a set of plugins which interact with the bare metal hypervisors. By default it will use PXE and IPMI in concert to provision and turn on/off machines but Ironic also supports vendor-specific plugins which may implement additional functionality. . This is a client for the OpenStack Ironic API. There's a Python API (the "ironicclient" module) and a command-line script ("ironic"). . Installing this package gets you a shell command that you can use to interact with Ironic's API. . This package provides the Python 3.x support."	Apache-2.0			
openvswitch-vtep	openvswitch	"Open vSwitch VTEP utilities Open vSwitch is a production quality multilayer software-based Ethernet virtual switch. It is designed to enable massive network automation through programmatic extension while still supporting standard management interfaces and protocols (e.g. NetFlow sFlow SPAN RSPAN CLI LACP 802.1ag). In addition it is designed to support distribution across multiple physical servers similar to VMware's vNetwork distributed vswitch or Cisco's Nexus 1000V. . This package provides utilities that are useful to interact with a VTEP-configured database and a VTEP emulator."	GPL-2.0 LGPL-2.1 BSD-2-Clause Apache-2.0	lex	128	
openvswitch-vtep	openvswitch	"Open vSwitch VTEP utilities Open vSwitch is a production quality multilayer software-based Ethernet virtual switch. It is designed to enable massive network automation through programmatic extension while still supporting standard management interfaces and protocols (e.g. NetFlow sFlow SPAN RSPAN CLI LACP 802.1ag). In addition it is designed to support distribution across multiple physical servers similar to VMware's vNetwork distributed vswitch or Cisco's Nexus 1000V. . This package provides utilities that are useful to interact with a VTEP-configured database and a VTEP emulator."	GPL-2.0 LGPL-2.1 BSD-2-Clause Apache-2.0	crypt	65	

Package name	Source	Package Description	Package License	Encryption types	Encryption Max Key Length	Comment
openvswitch-vtep	openvswitch	"Open vSwitch VTEP utilities Open vSwitch is a production quality multilayer software-based Ethernet virtual switch. It is designed to enable massive network automation through programmatic extension while still supporting standard management interfaces and protocols (e.g. NetFlow sFlow SPAN RSPAN CLI LACP 802.1ag). In addition it is designed to support distribution across multiple physical servers similar to VMware's vNetwork distributed vswitch or Cisco's Nexus 1000V. . This package provides utilities that are useful to interact with a VTEP-configured database and a VTEP emulator."	GPL-2.0 LGPL-2.1 BSD-2-Clause Apache-2.0	aes	256	
openvswitch-vtep	openvswitch	"Open vSwitch VTEP utilities Open vSwitch is a production quality multilayer software-based Ethernet virtual switch. It is designed to enable massive network automation through programmatic extension while still supporting standard management interfaces and protocols (e.g. NetFlow sFlow SPAN RSPAN CLI LACP 802.1ag). In addition it is designed to support distribution across multiple physical servers similar to VMware's vNetwork distributed vswitch or Cisco's Nexus 1000V. . This package provides utilities that are useful to interact with a VTEP-configured database and a VTEP emulator."	GPL-2.0 LGPL-2.1 BSD-2-Clause Apache-2.0	sha	512	
openvswitch-vtep	openvswitch	"Open vSwitch VTEP utilities Open vSwitch is a production quality multilayer software-based Ethernet virtual switch. It is designed to enable massive network automation through programmatic extension while still supporting standard management interfaces and protocols (e.g. NetFlow sFlow SPAN RSPAN CLI LACP 802.1ag). In addition it is designed to support distribution across multiple physical servers similar to VMware's vNetwork distributed vswitch or Cisco's Nexus 1000V. . This package provides utilities that are useful to interact with a VTEP-configured database and a VTEP emulator."	GPL-2.0 LGPL-2.1 BSD-2-Clause Apache-2.0	md5	128	
libsam-dev	corosync	"Standards-based cluster framework Sam devel files Corosync is a project to implement a production quality "Revised BSD" licensed implementation of all core functionalities required by openais. The project implements cutting edge research on virtual synchrony to provide 100% correct operation in the face of failures or partitionable networks with excellent performance characteristics. . The Application Interface Specification is a software API and policies which are used to develop applications that maintain service during faults. . This package contains the devel files of Sam a library which is part of Corosync."	Public Domain			
daemonize	daemonize	"A tool to run a command as a daemon daemonize is a command-line utility that runs a command as a Unix daemon."	MIT Public Domain			
pbuilder-uml	pbuilder	"user-mode-linux version of pbuilder pbuilder-uml uses a User-mode-linux system and builds Debian packages inside the UML image. It is an ideal system to use to check that a package has correct build-dependencies. It uses apt extensively and a local mirror or a fast connection to a Debian mirror is ideal but not necessary. . Requires user-mode-linux to function correctly . "pbuilder-user-mode-linux create" uses rootstrap to create UML image . "pbuilder-user-mode-linux update" updates the image to the current state of testing/unstable/whatever . "pbuilder-user-mode-linux build" takes a *.dsc file and builds a binary in the UML"	GPL-2.0+ GPL-2.0			

Package name	Source	Package Description	Package License	Encryption types	Encryption Max Key Length	Comment
python-xstatic-font-awesome	python-xstatic-font-awesome	"Font Awesome icons This package is intended to be used by <b>**any**</b> project that needs these files. . It intentionally does <b>**not**</b> provide any extra code except some metadata <b>**nor**</b> has any extra requirements. You MAY use some minimal support code from the XStatic base package if you like. . You can find more info about the xstatic packaging way in the package `XStatic`"	unknown			
erlang-erl-docgen	erlang	"Erlang/OTP documentation stylesheets The erl_docgen package includes XSLT stylesheets and document type definitions used for Erlang/OTP documentation. They allow one to transform documentation to manpage HTML and PDF formats."	LGPL-2.1 Apache-2.0	aes	256	
erlang-erl-docgen	erlang	"Erlang/OTP documentation stylesheets The erl_docgen package includes XSLT stylesheets and document type definitions used for Erlang/OTP documentation. They allow one to transform documentation to manpage HTML and PDF formats."	LGPL-2.1 Apache-2.0	diffiehellman	unlimited	
erlang-erl-docgen	erlang	"Erlang/OTP documentation stylesheets The erl_docgen package includes XSLT stylesheets and document type definitions used for Erlang/OTP documentation. They allow one to transform documentation to manpage HTML and PDF formats."	LGPL-2.1 Apache-2.0	blowfish	448	
erlang-erl-docgen	erlang	"Erlang/OTP documentation stylesheets The erl_docgen package includes XSLT stylesheets and document type definitions used for Erlang/OTP documentation. They allow one to transform documentation to manpage HTML and PDF formats."	LGPL-2.1 Apache-2.0	sha	512	
erlang-erl-docgen	erlang	"Erlang/OTP documentation stylesheets The erl_docgen package includes XSLT stylesheets and document type definitions used for Erlang/OTP documentation. They allow one to transform documentation to manpage HTML and PDF formats."	LGPL-2.1 Apache-2.0	hmac	160	
erlang-erl-docgen	erlang	"Erlang/OTP documentation stylesheets The erl_docgen package includes XSLT stylesheets and document type definitions used for Erlang/OTP documentation. They allow one to transform documentation to manpage HTML and PDF formats."	LGPL-2.1 Apache-2.0	md5	128	
python3-mock	python-mock	"Mocking and Testing Library (Python3 version) mock provides a core mock.Mock class that is intended to reduce the need to create a host of trivial stubs throughout your test suite. After performing an action you can make assertions about which methods / attributes were used and arguments they were called with. You can also specify return values and set specific attributes in the normal way. . This package contains the Python 3 version of the library."	BSD-3-Clause			
erlang-dbg	erlang	"Erlang/OTP symbol files The files containing debug symbols for binaries and libraries in Erlang to help in debugging applications build with them. You will not normally need to install this package."	LGPL-2.1 Apache-2.0	aes	256	
erlang-dbg	erlang	"Erlang/OTP symbol files The files containing debug symbols for binaries and libraries in Erlang to help in debugging applications build with them. You will not normally need to install this package."	LGPL-2.1 Apache-2.0	diffiehellman	unlimited	
erlang-dbg	erlang	"Erlang/OTP symbol files The files containing debug symbols for binaries and libraries in Erlang to help in debugging applications build with them. You will not normally need to install this package."	LGPL-2.1 Apache-2.0	blowfish	448	

Package name	Source	Package Description	Package License	Encryption types	Encryption Max Key Length	Comment
erlang-dbg	erlang	"Erlang/OTP symbol files The files containing debug symbols for binaries and libraries in Erlang to help in debugging applications build with them. You will not normally need to install this package."	LGPL-2.1 Apache-2.0	sha	512	
erlang-dbg	erlang	"Erlang/OTP symbol files The files containing debug symbols for binaries and libraries in Erlang to help in debugging applications build with them. You will not normally need to install this package."	LGPL-2.1 Apache-2.0	hmac	160	
erlang-dbg	erlang	"Erlang/OTP symbol files The files containing debug symbols for binaries and libraries in Erlang to help in debugging applications build with them. You will not normally need to install this package."	LGPL-2.1 Apache-2.0	md5	128	
python-django-doc	python-django	"High-level Python web development framework (documentation) Django is a high-level web application framework that loosely follows the model-view-controller design pattern. . Python's equivalent to Ruby on Rails Django lets you build complex data-driven websites quickly and easily - Django focuses on automating as much as possible and adhering to the "Don't Repeat Yourself" (DRY) principle. . Django additionally emphasizes reusability and "pluggability" of components; many generic third-party "applications" are available to enhance projects or to simply to reduce development time even further. . This package contains the HTML documentation and example projects."	BSD-2-Clause BSD-3-Clause Apache-2.0			
python-xstatic-jsencrypt	python-xstatic-jsencrypt	"JSEncrypt XStatic support - Python 2.x XStatic is a packaging standard to package external (often 3rd party) static files as a Python package so they are easily usable on all operating systems with any package management system or even without one. . Many Python projects need to use some specific data files like javascript css java applets images etc. Sometimes these files belong to YOUR project (then you may want to package them separately but you could also just put them into your main package). But in many other cases those files are maintained by someone else (like jQuery javascript library or even much bigger js libraries or applications) and you definitely do not really want to merge them into your project. So you want to have static file packages but you don't want to get lots of stuff you do not want. Thus stuff required by XStatic file packages (especially the main toplevel XStatic package) tries to obey to be a MINIMAL no-fat thing. XStatic doesn't "sell" any web framework or other stuff you don't want. Maybe there will be optional XStatic extensions for all sorts of stuff but they won't be required if you just want the files. . By having static files in packages it is also easier to build virtual envs support linux/bsd/... distribution package maintainers and even windows installs using the same mechanism. . This package provides JSEncrypt support as a Python 2.x module."	Unknown			
python-reno	python-reno	"RElease NOtes manager - Python 2.x Reno is a release notes manager for storing release notes in a git repository and then building documentation from them. . This package contains the Python 2.x module."	Apache-2.0			
libdpdk-dev	dpdk	"Data Plane Development Kit (basic development files) DPDK is a set of libraries for fast packet processing. Applications run in user-space and communicate directly with dedicated network interfaces. This package contains the basic headers and library files required to build external applications which will also require at least SSE3 support when running."	LGPL-2.1 BSD	sha	512	

Package name	Source	Package Description	Package License	Encryption types	Encryption Max Key Length	Comment
libdpdk-dev	dpdk	"Data Plane Development Kit (basic development files) DPDK is a set of libraries for fast packet processing. Applications run in user-space and communicate directly with dedicated network interfaces. This package contains the basic headers and library files required to build external applications which will also require at least SSE3 support when running."	LGPL-2.1 BSD	ripemd	160	
libdpdk-dev	dpdk	"Data Plane Development Kit (basic development files) DPDK is a set of libraries for fast packet processing. Applications run in user-space and communicate directly with dedicated network interfaces. This package contains the basic headers and library files required to build external applications which will also require at least SSE3 support when running."	LGPL-2.1 BSD	hmac	160	
libdpdk-dev	dpdk	"Data Plane Development Kit (basic development files) DPDK is a set of libraries for fast packet processing. Applications run in user-space and communicate directly with dedicated network interfaces. This package contains the basic headers and library files required to build external applications which will also require at least SSE3 support when running."	LGPL-2.1 BSD	md5	128	
libnl-route-3-dev	libnl3	"development library and headers for libnl-route-3 This is a library for applications dealing with netlink sockets. The library provides an interface for raw netlink messaging and various netlink family specific interfaces. . This package contains the files that are needed to build applications using libnl-route-3."	GPL-2.0 LGPL-2.1			
python3-xstatic-mdi	python-xstatic-mdi	"Material Design Icons Webfont XStatic support - Python 3.x XStatic is a Python web development tool for handling required static data files from external projects such as CSS images and JavaScript. It provides a lightweight infrastructure to manage them via Python modules that your app can depend on in a portable virtualenv-friendly way instead of using embedded copies. . This package contains the Python 3.x module support for the Material Design Icons Webfont. See the description of the fonts-materialdesignicons-webfont package."	Unknown			
python-magnumclient	python-magnumclient	"client library for Magnum API - Python 2.x Magnum is an OpenStack API service developed by the OpenStack Containers Team making container orchestration engines such as Docker and Kubernetes available as first class resources in OpenStack. Magnum uses Heat to orchestrate an OS image which contains Docker and Kubernetes and runs that image in either virtual machines or bare metal in a cluster configuration. . This package contains the Python 2.x module."	Apache-2.0			
python-git	python-git	"Python library to interact with Git repositories - Python 2.7 python-git provides object model access to a Git repository so Python can be used to manipulate it. Repository objects can be opened or created which can then be traversed to find parent commit(s) trees blobs etc. . This package provides the Python 2.7 module."	BSD-3-Clause			
python3-sqlalchemy-utils	python-sqlalchemy-utils	"various utility functions for SQLAlchemy - Python 3.x Various utility functions and custom data types for SQLAlchemy. . SQLAlchemy is an SQL database abstraction library for Python. . This package contains the Python 3.x module."	BSD-3-Clause			

Package name	Source	Package Description	Package License	Encryption types	Encryption Max Key Length	Comment
python-neutron	neutron	"OpenStack virtual network service - Python library Neutron provides an API to dynamically request and configure virtual networks. These networks connect "interfaces" from other OpenStack services (such as vNICs from Nova VMs). The Neutron API supports extensions to provide advanced network capabilities including QoS ACLs and network monitoring. . This package provides the Python library."	Apache-2.0			
mesos	mesos	"Common files and library of mesos nodes Apache Mesos is a cluster manager that provides efficient resource isolation and sharing across distributed applications or frameworks. It can run Hadoop MPI Hypertable Spark (a new framework for low-latency interactive and iterative jobs) and other applications."	GPL-2.0 GPL-3.0 BSD-3-Clause BSD MIT Public Domain Apache-2.0			
python-six-whl	six	"Python 2 and 3 compatibility library (universal wheel) Six is a Python 2 and 3 compatibility library. It provides utility functions for smoothing over the differences between the Python versions with the goal of writing Python code that is compatible on both Python versions. . This package provides Six as a universal wheel."	Unknown			
pypy-idna	python-idna	"Python IDNA2008 (RFC 5891) handling (PyPy) A library to support the Internationalised Domain Names in Applications (IDNA) protocol as specified in RFC 5891. This version of the protocol is often referred to as ?IDNA2008? and can produce different results from the earlier standard from 2003. . The library is also intended to act as a suitable drop-in replacement for the ?encodings.idna? module that comes with the Python standard library but currently only supports the older 2003 specification. . This package contains the module for PyPy."	BSD-3-Clause			
neutron-openvswitch-agent	neutron	"OpenStack virtual network service - Open vSwitch agent Neutron provides an API to dynamically request and configure virtual networks. These networks connect "interfaces" from other OpenStack services (such as vNICs from Nova VMs). The Neutron API supports extensions to provide advanced network capabilities including QoS ACLs and network monitoring. . This package provides the Open vSwitch agent. If you choose to use the Open vSwitch plugin on neutron-server this agent should run on each compute node."	Apache-2.0			
python-novaclient	python-novaclient	"client library for OpenStack Compute API - Python 2.7 OpenStack Compute codenamed Nova is a cloud computing fabric controller designed to be modular and easy to extend and adapt. In addition to its "native" OpenStack API it also supports the Amazon EC2 API and it supports many different database backends (including SQLite MySQL and PostgreSQL) hypervisors (KVM Xen) and user directory systems (LDAP SQL). . Python novaclient library and nova CLI tool for interacting with OpenStack Compute (Nova) through the OpenStack Compute API. . This package provides the Python 2.7 module."	Apache-2.0			
python-linecache2	python-linecache2	"backports of the linecache module - Python 2.7 A backport of linecache to older supported Pythons. Typically the user of this module would do "import linecache2 as linecache" and use the linecache module normally. . This package contains the Python 2.7 module."	Unknown			



Package name	Source	Package Description	Package License	Encryption types	Encryption Max Key Length	Comment
swift-proxy	swift	"distributed virtual object store - proxy server OpenStack Object Storage (code-named Swift) creates redundant scalable object storage using clusters of standardized servers to store petabytes of accessible data. It is not a file system or real-time data storage system but rather a long-term storage system for a more permanent type of static data that can be retrieved leveraged and then updated if necessary. Primary examples of data that best fit this type of storage model are virtual machine images photo storage email storage and backup archiving. Having no central "brain" or master point of control provides greater scalability redundancy and permanence. . Objects are written to multiple hardware devices in the data center with the OpenStack software responsible for ensuring data replication and integrity across the cluster. Storage clusters can scale horizontally by adding new nodes. Should a node fail OpenStack works to replicate its content from other active nodes. Because OpenStack uses software logic to ensure data replication and distribution across different devices inexpensive commodity hard drives and servers can be used in lieu of more expensive equipment. . This package provides a proxy server on which clients can connect to store object into Swift."	Apache-2.0			
erlang-common-test	erlang	"Erlang/OTP application for automated testing Common Test is a portable application for automated testing. It is suitable for black-box testing of target systems of any type (i.e. not necessarily implemented in Erlang) as well as for white-box testing of Erlang/OTP programs. Black-box testing is performed via standard interfaces (such as SNMP HTTP Corba Telnet etc) and if required via user specific interfaces (often called test ports). White-box testing of Erlang/OTP programs is easily accomplished by calling the target API functions directly from the test case functions. Common Test also integrates usage of the OTP cover tool for code coverage analysis of Erlang/OTP programs."	LGPL-2.1 Apache-2.0	aes	256	
erlang-common-test	erlang	"Erlang/OTP application for automated testing Common Test is a portable application for automated testing. It is suitable for black-box testing of target systems of any type (i.e. not necessarily implemented in Erlang) as well as for white-box testing of Erlang/OTP programs. Black-box testing is performed via standard interfaces (such as SNMP HTTP Corba Telnet etc) and if required via user specific interfaces (often called test ports). White-box testing of Erlang/OTP programs is easily accomplished by calling the target API functions directly from the test case functions. Common Test also integrates usage of the OTP cover tool for code coverage analysis of Erlang/OTP programs."	LGPL-2.1 Apache-2.0	diffiehellman	unlimited	
erlang-common-test	erlang	"Erlang/OTP application for automated testing Common Test is a portable application for automated testing. It is suitable for black-box testing of target systems of any type (i.e. not necessarily implemented in Erlang) as well as for white-box testing of Erlang/OTP programs. Black-box testing is performed via standard interfaces (such as SNMP HTTP Corba Telnet etc) and if required via user specific interfaces (often called test ports). White-box testing of Erlang/OTP programs is easily accomplished by calling the target API functions directly from the test case functions. Common Test also integrates usage of the OTP cover tool for code coverage analysis of Erlang/OTP programs."	LGPL-2.1 Apache-2.0	blowfish	448	

Package name	Source	Package Description	Package License	Encryption types	Encryption Max Key Length	Comment
erlang-common-test	erlang	"Erlang/OTP application for automated testing. Common Test is a portable application for automated testing. It is suitable for black-box testing of target systems of any type (i.e. not necessarily implemented in Erlang) as well as for white-box testing of Erlang/OTP programs. Black-box testing is performed via standard interfaces (such as SNMP HTTP Corba Telnet etc) and if required via user specific interfaces (often called test ports). White-box testing of Erlang/OTP programs is easily accomplished by calling the target API functions directly from the test case functions. Common Test also integrates usage of the OTP cover tool for code coverage analysis of Erlang/OTP programs."	LGPL-2.1 Apache-2.0	sha	512	
erlang-common-test	erlang	"Erlang/OTP application for automated testing. Common Test is a portable application for automated testing. It is suitable for black-box testing of target systems of any type (i.e. not necessarily implemented in Erlang) as well as for white-box testing of Erlang/OTP programs. Black-box testing is performed via standard interfaces (such as SNMP HTTP Corba Telnet etc) and if required via user specific interfaces (often called test ports). White-box testing of Erlang/OTP programs is easily accomplished by calling the target API functions directly from the test case functions. Common Test also integrates usage of the OTP cover tool for code coverage analysis of Erlang/OTP programs."	LGPL-2.1 Apache-2.0	hmac	160	
erlang-common-test	erlang	"Erlang/OTP application for automated testing. Common Test is a portable application for automated testing. It is suitable for black-box testing of target systems of any type (i.e. not necessarily implemented in Erlang) as well as for white-box testing of Erlang/OTP programs. Black-box testing is performed via standard interfaces (such as SNMP HTTP Corba Telnet etc) and if required via user specific interfaces (often called test ports). White-box testing of Erlang/OTP programs is easily accomplished by calling the target API functions directly from the test case functions. Common Test also integrates usage of the OTP cover tool for code coverage analysis of Erlang/OTP programs."	LGPL-2.1 Apache-2.0	md5	128	
python-sendfile-dbg	pysendfile	"Python interface to sendfile(2) (debug). Python library which provides a "zero-copy" way of copying data from one file descriptor to another (a socket). The phrase "zero-copy" refers to the fact that all of the copying of data between the two descriptors is done entirely by the kernel with no copying of data into userspace buffers. This is particularly useful when sending a file over a socket (e.g. FTP). . This package contains the extension built for the Python debug interpreter."	MIT			

Package name	Source	Package Description	Package License	Encryption types	Encryption Max Key Length	Comment
python3-jinja2	jinja2	"small but fast and easy to use stand-alone template engine Jinja2 is a template engine written in pure Python. It provides a Django inspired non-XML syntax but supports inline expressions and an optional sandboxed environment. . The key-features are: * Configurable syntax. If you are generating LaTeX or other formats with Jinja2 you can change the delimiters to something that integrates better into the LaTeX markup. * Fast. While performance is not the primarily target of Jinja2 it?s surprisingly fast. The overhead compared to regular Python code was reduced to the very minimum. * Easy to debug. Jinja2 integrates directly into the Python traceback system which allows you to debug Jinja2 templates with regular Python debugging helpers. * Secure. It?s possible to evaluate untrusted template code if the optional sandbox is enabled. This allows Jinja2 to be used as templating language for applications where users may modify the template design."	GPL-2.0 GPL-3.0 MIT			
python-swiftclient-doc	python-swiftclient	"Client library for Openstack Swift API - doc OpenStack Object Storage (code-named Swift) creates redundant scalable object storage using clusters of standardized servers to store petabytes of accessible data. It is not a file system or real-time data storage system but rather a long-term storage system for a more permanent type of static data that can be retrieved leveraged and then updated if necessary. Primary examples of data that best fit this type of storage model are virtual machine images photo storage email storage and backup archiving. Having no central "brain" or master point of control provides greater scalability redundancy and permanence. . Objects are written to multiple hardware devices in the data center with the OpenStack software responsible for ensuring data replication and integrity across the cluster. Storage clusters can scale horizontally by adding new nodes. Should a node fail OpenStack works to replicate its content from other active nodes. Because OpenStack uses software logic to ensure data replication and distribution across different devices inexpensive commodity hard drives and servers can be used in lieu of more expensive equipment. . This package provides a client for the OpenStack Swift API. There's a Python API (the "swiftclient" module) and a command-line script ("swift"). . This package contains the documentation."	GPL-2.0 Apache-2.0			
python-oslo-policy	python-oslo.policy	"transitional dummy package for python-oslo-policy This transitional package to python-oslo.policy is safe to remove."	Apache-2.0			
glance	glance	"OpenStack Image Registry and Delivery Service - Daemons The Glance project provides services for discovering registering and retrieving virtual machine images over the cloud. They may be stand-alone services or may be used to deliver images from object stores such as OpenStack's Swift service to Nova's compute nodes. . This package is a metapackage for all glance daemons."	Apache-2.0			
python-sphinxcontrib.program-output	sphinxcontrib-programoutput	"insert the output of arbitrary commands into documents - Python 2.x sphinxcontrib-programoutput is a Sphinx extension to literally insert the output of arbitrary commands into documents helping you to keep your command examples up to date. . This package provides the Python 2.x module."	BSD-2-Clause			

Package name	Source	Package Description	Package License	Encryption types	Encryption Max Key Length	Comment
python-pyasn1-modules	python-pyasn1-modules	"Collection of protocols modules written in ASN.1 language This is a small but growing collection of ASN.1 data structures expressed in Python terms using pyasn1 data model. . It's thought to be useful to protocol developers and testers. . Please note that pyasn1_modules is neither part of the pyasn1 package nor related to it."	BSD-2-Clause BSD-3-Clause			
swift-object-expirer	swift	"distributed virtual object store - object-expirer OpenStack Object Storage (code-named Swift) creates redundant scalable object storage using clusters of standardized servers to store petabytes of accessible data. It is not a file system or real-time data storage system but rather a long-term storage system for a more permanent type of static data that can be retrieved leveraged and then updated if necessary. Primary examples of data that best fit this type of storage model are virtual machine images photo storage email storage and backup archiving. Having no central "brain" or master point of control provides greater scalability redundancy and permanence. . Objects are written to multiple hardware devices in the data center with the OpenStack software responsible for ensuring data replication and integrity across the cluster. Storage clusters can scale horizontally by adding new nodes. Should a node fail OpenStack works to replicate its content from other active nodes. Because OpenStack uses software logic to ensure data replication and distribution across different devices inexpensive commodity hard drives and servers can be used in lieu of more expensive equipment. . This package provides the swift object expirer daemon. Only a single instance of this daemon is needed for a given swift cluster which is why it is packaged separately."	Apache-2.0			
python3-progress	python-progress	"easy progress reporting for Python This package provides several canned progress bars for command line Python programs. Progress bars are customizable and can be advanced by using the next() method with the finish() method to finish. . This is the Python 3 version."	MIT ISC			
init-system-helpers	init-system-helpers	"helper tools for all init systems This package contains helper tools that are necessary for switching between the various init systems that Debian contains (e.g. sysvinit upstart systemd). An example is deb-systemd-helper a script that enables systemd unit files without depending on a running systemd. . While this package is maintained by pkg-systemd-maintainers it is NOT specific to systemd at all. Maintainers of other init systems are welcome to include their helpers in this package."	BSD			
python3-oslo.reports	python-oslo.reports	"reports serialized in various data types - Python 3.x This package/module provides mechanisms for defining reports which may then be serialized into various data types. Each report is composed of one or more report sections which contain generators which generate data models which are then serialized by views. . This package contains the Python 3.x module."	Apache-2.0			
librbd-dev	ceph	"RADOS block device client library (development files) RBD is a block device striped across multiple distributed objects in RADOS a reliable autonomic distributed object storage cluster developed as part of the Ceph distributed storage system. This is a shared library allowing applications to manage these block devices. . This package contains development files needed for building applications that link against librbd1."	GPL-2.0+ GPL-2.0 GPL-3.0 LGPL-2.0 LGPL-2.1 BSD-2-Clause BSD-3-Clause Public Domain Apache-2.0	crush	unlimited	cephhash

Package name	Source	Package Description	Package License	Encryption types	Encryption Max Key Length	Comment
librbd-dev	ceph	"RADOS block device client library (development files) RBD is a block device striped across multiple distributed objects in RADOS a reliable autonomic distributed object storage cluster developed as part of the Ceph distributed storage system. This is a shared library allowing applications to manage these block devices. . This package contains development files needed for building applications that link against librbd1."	GPL-2.0+ GPL-2.0 GPL-3.0 LGPL-2.0 LGPL-2.1 BSD-2-Clause BSD-3-Clause Public Domain Apache-2.0	sha	512	
librbd-dev	ceph	"RADOS block device client library (development files) RBD is a block device striped across multiple distributed objects in RADOS a reliable autonomic distributed object storage cluster developed as part of the Ceph distributed storage system. This is a shared library allowing applications to manage these block devices. . This package contains development files needed for building applications that link against librbd1."	GPL-2.0+ GPL-2.0 GPL-3.0 LGPL-2.0 LGPL-2.1 BSD-2-Clause BSD-3-Clause Public Domain Apache-2.0	aes	256	
librbd-dev	ceph	"RADOS block device client library (development files) RBD is a block device striped across multiple distributed objects in RADOS a reliable autonomic distributed object storage cluster developed as part of the Ceph distributed storage system. This is a shared library allowing applications to manage these block devices. . This package contains development files needed for building applications that link against librbd1."	GPL-2.0+ GPL-2.0 GPL-3.0 LGPL-2.0 LGPL-2.1 BSD-2-Clause BSD-3-Clause Public Domain Apache-2.0	abacus	0	
librbd-dev	ceph	"RADOS block device client library (development files) RBD is a block device striped across multiple distributed objects in RADOS a reliable autonomic distributed object storage cluster developed as part of the Ceph distributed storage system. This is a shared library allowing applications to manage these block devices. . This package contains development files needed for building applications that link against librbd1."	GPL-2.0+ GPL-2.0 GPL-3.0 LGPL-2.0 LGPL-2.1 BSD-2-Clause BSD-3-Clause Public Domain Apache-2.0	md5	128	
python-fasteners	python-fasteners	"provides useful locks - Python 2.7 Fasteners is a Python package that provides useful locks. It includes locking decorator (that acquires instance objects lock(s) acquires on method entry and releases on method exit) reader-writer locks inter-process locks and generic lock helpers. . This package contains the Python 2.7 module."	Apache-2.0			
nova-compute-lxc	nova	"OpenStack Compute - compute node (LXC) OpenStack is a reliable cloud infrastructure. Its mission is to produce the ubiquitous cloud computing platform that will meet the needs of public and private cloud providers regardless of size by being simple to implement and massively scalable. . OpenStack Compute codenamed Nova is a cloud computing fabric controller designed to be modular and easy to extend and adapt. In addition to its "native" OpenStack API it also supports the Amazon EC2 API and it supports many different database backends (including SQLite MySQL and PostgreSQL) hypervisors (KVM Xen) and user directory systems (LDAP SQL). . This is a dependency package for compute nodes using LXC."	Apache-2.0			
python-betamax	betamax	"VCR imitation designed only for python-requests - Python 2.X Betamax records HTTP interactions and replay them allowing fast deterministic and accurate tests and it's designed to be used with python-requests. If you are not using python-requests you should checkout vcr.py. . Betamax comes with integrations for py.test and unittest and supports third party packages that provide extra request matchers and cassette serializers."	Apache-2.0			

Package name	Source	Package Description	Package License	Encryption types	Encryption Max Key Length	Comment
python3-sysv-ipc	python-sysv-ipc	"semaphores shared memory and message queues - Python 3.x Sysv_ipc gives Python programs access to System V semaphores shared memory and message queues. Most (all?) Unixes (including OS X) support System V IPC. . This package contains the Python 3.x module."	BSD-3-Clause			
aodh-common	aodh	"OpenStack Telemetry (Ceilometer) Alarming - common files Ceilometer aims to deliver a Single Point Of Contact for billing systems providing all the counters they need to establish customer billing across all current and future OpenStack components. The delivery of counters must be traceable and auditable the counters must be easily extensible to support new projects and agents doing data collections should be independent of the overall system. . (A ceilometer is an instrument that measures cloud coverage.) . This package contains files that are needed for all parts of Aodh."	Apache-2.0			
python-pyngus	python-pyngus	"callback API implemented over Proton - Python 2.7 Pyngus is a messaging framework built on the QPID Proton engine. It provides a callback-based API for message passing. . This package contains the Python 2.7 module."	Apache-2.0			
python3-compressor	python-django-compressor	"Compresses linked inline JS or CSS - Python 3.x transition package Django Compressor combines and compresses linked and inline Javascript or CSS in a Django templates into cacheable static files by using the compress template tag. . This is a transitional package to upgrade to python3-django-compressor and it is safe to remove."	BSD-2-Clause MIT			
python3-docker	python-docker	"Python 3 wrapper to access docker.io's control socket This package contains oodles of routines that aid in controlling docker.io over it's socket control the same way the docker.io client controls the daemon. . This package provides Python 3 module bindings only."	Apache-2.0			
python-jsonpath-rw	python-jsonpath-rw	"extended implementation of JSONPath for Python 2.x This library provides a robust and significantly extended implementation of JSONPath for Python. It is tested with Python 2.6 2.7 3.2 and 3.3. . This library differs from other JSONPath implementations in that it is a full language implementation meaning the JSONPath expressions are first class objects easy to analyze transform parse print and extend. . The JSONPath syntax supported by this library includes some additional features and omits some problematic features (those that make it unportable). In particular some new operators such as " " and "where" are available and parentheses are used for grouping not for callbacks into Python since with these changes the language is not trivially associative. Also fields may be quoted whether or not they are contained in brackets. . This package provides the Python 2.x module."	Apache-2.0			
python-barbicanclient	python-barbicanclient	"OpenStack Key Management API client - Python 2.x This is a client for the Barbican Key Management API. This package includes a Python library for accessing the API (the barbicanclient module) and a command-line script (barbican). . This package contains the Python 2.x module."	Apache-2.0			

Package name	Source	Package Description	Package License	Encryption types	Encryption Max Key Length	Comment
python3-automaton	python-automaton	"friendly state machines - Python 3.x Automaton is a friendly state machines for Python. This state machine can be used to automatically run a given set of transitions and states in response to events (either from callbacks or from generator/iterator send() values see PEP 342). On each triggered event a on_enter and on_exit callback can also be provided which will be called to perform some type of action on leaving a prior state and before entering a new state. . This package contains the Python 3.x module."	Apache-2.0			
python3-yaql	python-yaql	"Yet Another Query Language - Python 3.x YAQL is a general purpose query language that is designed to operate on objects of arbitrary complexity. YAQL has a large standard library of functions for filtering grouping and aggregation of data. At the same time YAQL allows you to extend it by defining your own functions. . This package contains the Python 3.x module."	Apache-2.0			
python-singledispatch	singledispatch	"single-dispatch generic functions for Python PEP 443 proposed to expose a mechanism in the functools standard library module in Python 3.4 that provides a simple form of generic programming known as single-dispatch generic functions. . This library is a backport of this functionality to Python 2.6 - 3.3. . This is the Python 2 version of the library."	Unknown			
libcephfs1-dbg	ceph	"debugging symbols for libcephfs1 Ceph is a distributed network file system designed to provide excellent performance reliability and scalability. This is a shared library allowing applications to access a Ceph distributed file system via a POSIX-like interface. . This package contains debugging symbols for libcephfs1."	GPL-2.0+ GPL-2.0 GPL-3.0 LGPL-2.0 LGPL-2.1 BSD-2-Clause BSD-3-Clause Public Domain Apache-2.0	crush	unlimited	cephhash
libcephfs1-dbg	ceph	"debugging symbols for libcephfs1 Ceph is a distributed network file system designed to provide excellent performance reliability and scalability. This is a shared library allowing applications to access a Ceph distributed file system via a POSIX-like interface. . This package contains debugging symbols for libcephfs1."	GPL-2.0+ GPL-2.0 GPL-3.0 LGPL-2.0 LGPL-2.1 BSD-2-Clause BSD-3-Clause Public Domain Apache-2.0	sha	512	
libcephfs1-dbg	ceph	"debugging symbols for libcephfs1 Ceph is a distributed network file system designed to provide excellent performance reliability and scalability. This is a shared library allowing applications to access a Ceph distributed file system via a POSIX-like interface. . This package contains debugging symbols for libcephfs1."	GPL-2.0+ GPL-2.0 GPL-3.0 LGPL-2.0 LGPL-2.1 BSD-2-Clause BSD-3-Clause Public Domain Apache-2.0	aes	256	
libcephfs1-dbg	ceph	"debugging symbols for libcephfs1 Ceph is a distributed network file system designed to provide excellent performance reliability and scalability. This is a shared library allowing applications to access a Ceph distributed file system via a POSIX-like interface. . This package contains debugging symbols for libcephfs1."	GPL-2.0+ GPL-2.0 GPL-3.0 LGPL-2.0 LGPL-2.1 BSD-2-Clause BSD-3-Clause Public Domain Apache-2.0	abacus	0	
libcephfs1-dbg	ceph	"debugging symbols for libcephfs1 Ceph is a distributed network file system designed to provide excellent performance reliability and scalability. This is a shared library allowing applications to access a Ceph distributed file system via a POSIX-like interface. . This package contains debugging symbols for libcephfs1."	GPL-2.0+ GPL-2.0 GPL-3.0 LGPL-2.0 LGPL-2.1 BSD-2-Clause BSD-3-Clause Public Domain Apache-2.0	md5	128	

Package name	Source	Package Description	Package License	Encryption types	Encryption Max Key Length	Comment
qemu	qemu	"fast processor emulator QEMU is a fast processor emulator: currently the package supports ARM CRIS i386 M68k (ColdFire) MicroBlaze MIPS PowerPC SH4 SPARC and x86-64 emulation. By using dynamic translation it achieves reasonable speed while being easy to port on new host CPUs. QEMU has two operating modes: . * User mode emulation: QEMU can launch Linux processes compiled for one CPU on another CPU. * Full system emulation: QEMU emulates a full system including a processor and various peripherals. It enables easier testing and debugging of system code. It can also be used to provide virtual hosting of several virtual machines on a single server. . As QEMU requires no host kernel patches to run it is very safe and easy to use. . This package is a metapackage depending on all qemu-related packages."	GPL-2.0 MIT	crypt	65	
qemu	qemu	"fast processor emulator QEMU is a fast processor emulator: currently the package supports ARM CRIS i386 M68k (ColdFire) MicroBlaze MIPS PowerPC SH4 SPARC and x86-64 emulation. By using dynamic translation it achieves reasonable speed while being easy to port on new host CPUs. QEMU has two operating modes: . * User mode emulation: QEMU can launch Linux processes compiled for one CPU on another CPU. * Full system emulation: QEMU emulates a full system including a processor and various peripherals. It enables easier testing and debugging of system code. It can also be used to provide virtual hosting of several virtual machines on a single server. . As QEMU requires no host kernel patches to run it is very safe and easy to use. . This package is a metapackage depending on all qemu-related packages."	GPL-2.0 MIT	aes	256	
qemu	qemu	"fast processor emulator QEMU is a fast processor emulator: currently the package supports ARM CRIS i386 M68k (ColdFire) MicroBlaze MIPS PowerPC SH4 SPARC and x86-64 emulation. By using dynamic translation it achieves reasonable speed while being easy to port on new host CPUs. QEMU has two operating modes: . * User mode emulation: QEMU can launch Linux processes compiled for one CPU on another CPU. * Full system emulation: QEMU emulates a full system including a processor and various peripherals. It enables easier testing and debugging of system code. It can also be used to provide virtual hosting of several virtual machines on a single server. . As QEMU requires no host kernel patches to run it is very safe and easy to use. . This package is a metapackage depending on all qemu-related packages."	GPL-2.0 MIT	des	56	
qemu	qemu	"fast processor emulator QEMU is a fast processor emulator: currently the package supports ARM CRIS i386 M68k (ColdFire) MicroBlaze MIPS PowerPC SH4 SPARC and x86-64 emulation. By using dynamic translation it achieves reasonable speed while being easy to port on new host CPUs. QEMU has two operating modes: . * User mode emulation: QEMU can launch Linux processes compiled for one CPU on another CPU. * Full system emulation: QEMU emulates a full system including a processor and various peripherals. It enables easier testing and debugging of system code. It can also be used to provide virtual hosting of several virtual machines on a single server. . As QEMU requires no host kernel patches to run it is very safe and easy to use. . This package is a metapackage depending on all qemu-related packages."	GPL-2.0 MIT	tripledes	168	



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qemu	qemu	"fast processor emulator QEMU is a fast processor emulator: currently the package supports ARM CRIS i386 M68k (ColdFire) MicroBlaze MIPS PowerPC SH4 SPARC and x86-64 emulation. By using dynamic translation it achieves reasonable speed while being easy to port on new host CPUs. QEMU has two operating modes: . * User mode emulation: QEMU can launch Linux processes compiled for one CPU on another CPU. * Full system emulation: QEMU emulates a full system including a processor and various peripherals. It enables easier testing and debugging of system code. It can also be used to provide virtual hosting of several virtual machines on a single server. . As QEMU requires no host kernel patches to run it is very safe and easy to use. . This package is a metapackage depending on all qemu-related packages."	GPL-2.0 MIT	sha	512	
sphinx-doc	sphinx	"documentation generator for Python projects - documentation Sphinx is a tool for producing documentation for Python projects using reStructuredText as markup language. . This package includes documentation of Sphinx itself."	MIT Public Domain			
python-gnocchiclient-doc	python-gnocchiclient	"bindings to the OpenStack Gnocchi API - doc This is a client for OpenStack gnocchi API. There's a Python API (the gnocchiclient module) and a command-line script. Each implements the entire OpenStack Gnocchi API. . Gnocchi is a service for managing a set of resources and storing metrics about them in a scalable and resilient way. Its functionalities are exposed over an HTTP REST API. . This package contains the documentation."	Apache-2.0			
python-django-formtools	python-django-formtools	"set of high-level abstractions for Django forms - Python 2.7 Django's formtools is a set of high-level abstractions for Django forms. Currently for form previews and multi-step forms. . This code used to live in Django proper: in django.contrib.formtools. But it was separated into a standalone package in Django 1.8 to keep the framework's core clean. . This package contains the Python 2.7 module."	BSD-3-Clause			
python-xstatic-angular-lrdragndrop	python-xstatic-angular-lrdragndrop	"Angular-Lrdragndrop 1.0.2 (XStatic packaging standard) - Python 2.x XStatic is a Python web development tool for handling required static data files from external projects such as CSS images and JavaScript. It provides a lightweight infrastructure to manage them via Python modules that your app can depend on in a portable virtualenv-friendly way instead of using embedded copies. . This package contains the Python 2.x module support for Angular-Lrdragndrop."	Unknown			
python-openstack-doc-tools	openstack-doc-tools	"tools used by the OpenStack Documentation project - Python 2.7 This package contains a set of tools used to build the OpenStack documentation (install-guide etc.) in multiple formats: html pdf etc. The input format is a set of XML documents. . This package provides the Python 2.7 module."	Apache-2.0			

Package name	Source	Package Description	Package License	Encryption types	Encryption Max Key Length	Comment
python3-idna	python-idna	"Python IDNA2008 (RFC 5891) handling (Python 3) A library to support the Internationalised Domain Names in Applications (IDNA) protocol as specified in RFC 5891. This version of the protocol is often referred to as ?IDNA2008? and can produce different results from the earlier standard from 2003. . The library is also intended to act as a suitable drop-in replacement for the ?encodings.idna? module that comes with the Python standard library but currently only supports the older 2003 specification. . This package contains the module for Python 3."	BSD-3-Clause			
dpdk	dpdk	"Data Plane Development Kit (runtime) DPDK is a set of libraries for fast packet processing. Applications run in user-space and communicate directly with dedicated network interfaces. This package contains the runtime environment to run DPDK applications."	LGPL-2.1 BSD	sha	512	
dpdk	dpdk	"Data Plane Development Kit (runtime) DPDK is a set of libraries for fast packet processing. Applications run in user-space and communicate directly with dedicated network interfaces. This package contains the runtime environment to run DPDK applications."	LGPL-2.1 BSD	ripemd	160	
dpdk	dpdk	"Data Plane Development Kit (runtime) DPDK is a set of libraries for fast packet processing. Applications run in user-space and communicate directly with dedicated network interfaces. This package contains the runtime environment to run DPDK applications."	LGPL-2.1 BSD	hmac	160	
dpdk	dpdk	"Data Plane Development Kit (runtime) DPDK is a set of libraries for fast packet processing. Applications run in user-space and communicate directly with dedicated network interfaces. This package contains the runtime environment to run DPDK applications."	LGPL-2.1 BSD	md5	128	
libjs-jquery.quicksearch	libjs-jquery.quicksearch	"plug-in for filtering large data sets with user input The jQuery quicksearch plug-in filteres large data sets with user input. It is an improved fork of the original work of riklomas which is available at <a href="https://github.com/riklomas/quicksearch">https://github.com/riklomas/quicksearch</a> ."	Unknown			
libquorum-dev	corosync	"Standards-based cluster framework Quorum devel files Corosync is a project to implement a production quality "Revised BSD" licensed implementation of all core functionalities required by openais. The project implements cutting edge research on virtual synchrony to provide 100% correct operation in the face of failures or partitionable networks with excellent performance characteristics. . The Application Interface Specification is a software API and policies which are used to develop applications that maintain service during faults. . This package contains the devel files of Quorum a library which is part of Corosync."	Public Domain			
python3-unittest2	unittest2	"backport of the enhanced unittest testing framework - Python 3.x unittest2 is an enhanced version of unittest including a standard test runner (automatic test discovery) class and module level fixtures (setUpClass / setUpModule etc) many powerful new assert methods better resource management with addCleanups and a host of other new features. These new features are *all* going into the Python version of unittest in Python 2.7 and Python 3.2. The point of unittest2 is that it works with Python 2.4 - 2.6; you can use it now. . This package contains the Python 3.x module."	BSD-3-Clause			

Package name	Source	Package Description	Package License	Encryption types	Encryption Max Key Length	Comment
python-gabbi-doc	python-gabbi	"declarative HTTP testing library - doc Gabbi is a tool for running HTTP tests where requests and responses are represented in a declarative form. . Gabbi works to bridge the gap between human readable YAML files that represent HTTP requests and expected responses and the obscured realm of Python-based object-oriented unit tests in the style of the unittest module and its derivatives. . Each YAML file represents an ordered list of HTTP requests along with the expected responses. This allows a single file to represent a process in the API being tested. For example: . * Create a resource. * Retrieve a resource. * Delete a resource. * Retrieve a resource again to confirm it is gone. . At the same time it is still possible to ask gabbi to run just one request. If it is in a sequence of tests those tests prior to it in the YAML file will be run (in order). In any single process any test will only be run once. Concurrency is handled such that one file runs in one process. . These features mean that it is possible to create tests that are useful for both humans (as tools for improving and developing APIs) and automated CI systems. . This package contains the documentation."	Apache-2.0			
qemu-guest-agent	qemu	"Guest-side qemu-system agent QEMU is a fast processor emulator: currently the package supports ARM CRIS i386 M68k (ColdFire) MicroBlaze MIPS PowerPC SH4 SPARC and x86-64 emulation. By using dynamic translation it achieves reasonable speed while being easy to port on new host CPUs. . This package provides a daemon (agent) to run inside qemu-system guests (full system emulation). It communicates with the host using a virtio-serial channel org.qemu.guest_agent.0 and allows one to perform some functions in the guest from the host including: - querying and setting guest system time - performing guest filesystem sync operation - initiating guest shutdown or suspend to ram - accessing guest files - freezing/thawing guest filesystem operations - others. . Install this package on a system which is running as guest inside qemu virtual machine. It is not used on the host."	GPL-2.0 MIT	crypt	65	
qemu-guest-agent	qemu	"Guest-side qemu-system agent QEMU is a fast processor emulator: currently the package supports ARM CRIS i386 M68k (ColdFire) MicroBlaze MIPS PowerPC SH4 SPARC and x86-64 emulation. By using dynamic translation it achieves reasonable speed while being easy to port on new host CPUs. . This package provides a daemon (agent) to run inside qemu-system guests (full system emulation). It communicates with the host using a virtio-serial channel org.qemu.guest_agent.0 and allows one to perform some functions in the guest from the host including: - querying and setting guest system time - performing guest filesystem sync operation - initiating guest shutdown or suspend to ram - accessing guest files - freezing/thawing guest filesystem operations - others. . Install this package on a system which is running as guest inside qemu virtual machine. It is not used on the host."	GPL-2.0 MIT	aes	256	

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qemu-guest-agent	qemu	"Guest-side qemu-system agent QEMU is a fast processor emulator: currently the package supports ARM CRIS i386 M68k (ColdFire) MicroBlaze MIPS PowerPC SH4 SPARC and x86-64 emulation. By using dynamic translation it achieves reasonable speed while being easy to port on new host CPUs. . This package provides a daemon (agent) to run inside qemu-system guests (full system emulation). It communicates with the host using a virtio-serial channel org.qemu.guest_agent.0 and allows one to perform some functions in the guest from the host including: - querying and setting guest system time - performing guest filesystem sync operation - initiating guest shutdown or suspend to ram - accessing guest files - freezing/thawing guest filesystem operations - others. . Install this package on a system which is running as guest inside qemu virtual machine. It is not used on the host."	GPL-2.0 MIT	des	56	
qemu-guest-agent	qemu	"Guest-side qemu-system agent QEMU is a fast processor emulator: currently the package supports ARM CRIS i386 M68k (ColdFire) MicroBlaze MIPS PowerPC SH4 SPARC and x86-64 emulation. By using dynamic translation it achieves reasonable speed while being easy to port on new host CPUs. . This package provides a daemon (agent) to run inside qemu-system guests (full system emulation). It communicates with the host using a virtio-serial channel org.qemu.guest_agent.0 and allows one to perform some functions in the guest from the host including: - querying and setting guest system time - performing guest filesystem sync operation - initiating guest shutdown or suspend to ram - accessing guest files - freezing/thawing guest filesystem operations - others. . Install this package on a system which is running as guest inside qemu virtual machine. It is not used on the host."	GPL-2.0 MIT	tripledes	168	
qemu-guest-agent	qemu	"Guest-side qemu-system agent QEMU is a fast processor emulator: currently the package supports ARM CRIS i386 M68k (ColdFire) MicroBlaze MIPS PowerPC SH4 SPARC and x86-64 emulation. By using dynamic translation it achieves reasonable speed while being easy to port on new host CPUs. . This package provides a daemon (agent) to run inside qemu-system guests (full system emulation). It communicates with the host using a virtio-serial channel org.qemu.guest_agent.0 and allows one to perform some functions in the guest from the host including: - querying and setting guest system time - performing guest filesystem sync operation - initiating guest shutdown or suspend to ram - accessing guest files - freezing/thawing guest filesystem operations - others. . Install this package on a system which is running as guest inside qemu virtual machine. It is not used on the host."	GPL-2.0 MIT	sha	512	
python-bashate	python-bashate	"bash script style guide checker - Python 2.x This program attempts to be an automated style checker for bash scripts to fill the same part of code review that pep8 does in most OpenStack projects. It started from humble beginnings in the DevStack project and will continue to evolve over time. . This package contains the Python 2.x module and command line utility."	Apache-2.0			

Package name	Source	Package Description	Package License	Encryption types	Encryption Max Key Length	Comment
puppetmaster-common	puppet	"configuration management system master common files Puppet is a server automation tool. It is composed of a declarative language for expressing system configuration a client and server for distributing it and a library for realizing the configuration. . The primary design goal of Puppet is to have an expressive enough language backed by a powerful enough library that you can write your own server automation applications in just a few lines of code. Puppet?s deep extensibility and open source license lets you add functionality as needed and share your innovations with others. . This package contains configuration files used by both puppetmaster and puppetmaster-common packages."	GPL-2.0+ GPL-2.0 BSD-3-Clause MIT Public Domain Apache-2.0			
pylint	pylint	"Analyzes Python code looking for bugs and signs of poor quality Pylint is a python tool that checks if a module satisfy a coding standard. Pylint can be seen as another PyChecker since nearly all tests you can do with PyChecker can also be done with Pylint. But Pylint offers some more features like checking line-code's length checking if variable names are well-formed according to your coding standard or checking if declared interfaces are truly implemented and much more. The big advantage with Pylint is that it is highly configurable customizable and you can easily write a small plugin to add a personal feature."	GPL-2.0+ GPL-2.0			
mcollective-client	mcollective	"build server orchestration or parallel job execution systems The Marionette Collective aka. mcollective is a framework to build server orchestration or parallel job execution system"	Apache-2.0			
openjdk-8-jre	openjdk-8	"OpenJDK Java runtime using Hotspot JIT Full Java runtime environment - needed for executing Java GUI and Webstart programs using Hotspot JIT. . The packages are built using the IcedTea build support and patches from the IcedTea project."	unknown			
python-amqp-doc	python-amqp	"Low-level AMQP client (Documentation) This is a fork of amqplib which was originally written by Barry Pederson. It is maintained by the Celery project and used by kombu as a pure Python alternative when librabbitmq is not available. . This library should be API compatible with librabbitmq. Differences from amqplib are: * Supports draining events from multiple channels (Connection.drain_events). * Support for timeouts. * Channels are restored after channel error instead of having to close the connection. * Support for heartbeats. * Supports RabbitMQ extensions: - Consumer Cancel Notifications. - Publisher confirms. - Exchange-to-exchange bindings: exchange_bind / exchange_unbind. * Support for basic_return. * Uses AMQP 0-9-1 instead of 0-8. * Exposes the underlying socket as Connection.sock. * Adds Channel.no_ack_consumers to keep track of consumer tags that set the no_ack flag. * Slightly better at error recovery. . This package contains the documentation."	GPL-2.0 LGPL-2.1			
libvirt-daemon-system	libvirt	"Libvirt daemon configuration files Libvirt is a C toolkit to interact with the virtualization capabilities of recent versions of Linux (and other OSes). The library aims at providing a long term stable C API for different virtualization mechanisms. It currently supports QEMU KVM XEN OpenVZ LXC and VirtualBox. . This package contains the configuration files to run the libvirt daemon as a system service."	GPL-2.0 GPL-3.0 LGPL-3.0 MIT	sha	512	

Package name	Source	Package Description	Package License	Encryption types	Encryption Max Key Length	Comment
libvirt-daemon-system	libvirt	"Libvirt daemon configuration files Libvirt is a C toolkit to interact with the virtualization capabilities of recent versions of Linux (and other OSes). The library aims at providing a long term stable C API for different virtualization mechanisms. It currently supports QEMU KVM XEN OpenVZ LXC and VirtualBox. . This package contains the configuration files to run the libvirt daemon as a system service."	GPL-2.0 GPL-3.0 LGPL-3.0 MIT	md5	128	
python-repoze.what	python-repoze.what	"authorization framework for Python WSGI applications repoze.what is an authorization framework for WSGI applications based on repoze.who (which deals with authentication and identification). . On the one hand it enables an authorization system based on the groups to which the authenticated or anonymous user belongs and the permissions granted to such groups by loading these groups and permissions into the request on the way in to the downstream WSGI application. . And on the other hand it enables you the programmer to manage groups and permissions from the application itself or another program under a backend-independent API. For example it would be easy to switch from one back-end to another and even use this framework to migrate the data. . This is just the authorization pattern it supports out-of-the-box but it supports other authorization patterns with custom predicates. It's highly extensible so it's very unlikely that it will get in the way and can be extended to check for many conditions (e.g.: checking that the user comes from a given country based on her IP address)."	GPL-3.0			
python3-repoze.who	python-repoze.who	"ident and auth framework for Python WSGI applications - Python 3.x repoze.who is an identification and authentication framework for arbitrary Python WSGI applications; it acts as WSGI middleware. . repoze.who is inspired by Zope 2's Pluggable Authentication Service (PAS) but is not dependent on Zope in any way; it is useful for any WSGI application. . It provides no facility for authorization (ensuring whether a user can or cannot perform the operation implied by the request). This is considered to be the domain of the WSGI application. . This package contains the Python 3.x module."	GPL-3.0			
python3-xstatic-angular-lrdragndrop	python-xstatic-angular-lrdragndrop	"Angular-Lrdragndrop 1.0.2 (XStatic packaging standard) - Python 3.x XStatic is a Python web development tool for handling required static data files from external projects such as CSS images and JavaScript. It provides a lightweight infrastructure to manage them via Python modules that your app can depend on in a portable virtualenv-friendly way instead of using embedded copies. . This package contains the Python 3.x module support for Angular-Lrdragndrop."	Unknown			

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python-osprofiler-doc	python-osprofiler	"OpenStack Profiler Library - doc OpenStack consists of multiple projects. Each project in turn is composed of multiple services. To process some request e.g. to boot a virtual machine OpenStack uses multiple services from different projects. In the case somethin works too slowly it's extremely complicated to understand what exactly goes wrong and to locate the bottleneck. . To resolve this issue a tiny but powerful library osprofiler has been interoduced and can be used by all OpenStack projects and their Python clients. To be able to generate one trace per request that goes through all involved services and builds a tree of calls (see an example <a href="http://pavlovic.me/rally/profiler/">http://pavlovic.me/rally/profiler/</a> ). . This package contains the documentation."	Apache-2.0			
mysql-server-wsrep-5.6	mysql-wsrep-5.6	"MySQL database server binaries and system database setup MySQL is a fast stable and true multi-user multi-threaded SQL database server. SQL (Structured Query Language) is the most popular database query language in the world. The main goals of MySQL are speed robustness and ease of use. . This package contains all the infrastructure needed to setup system databases."	GPL-2.0+ GPL-2.0 LGPL-2.0 BSD-3-Clause BSD MIT Public Domain ISC			
python3-django	python-django	"High-level Python web development framework (Python 3 version) Django is a high-level web application framework that loosely follows the model-view-controller design pattern. . Python's equivalent to Ruby on Rails Django lets you build complex data-driven websites quickly and easily - Django focuses on automating as much as possible and adhering to the "Don't Repeat Yourself" (DRY) principle. . Django additionally emphasizes reusability and "pluggability" of components; many generic third-party "applications" are available to enhance projects or to simply to reduce development time even further. . Notable features include: * An object-relational mapper (ORM) * Automatic admin interface * Elegant URL dispatcher * Form serialization and validation system * Templating system * Lightweight standalone web server for development and testing * Internationalization support * Testing framework and client . This package is built for Python 3."	BSD-2-Clause BSD-3-Clause Apache-2.0			
python3-pbr	python-pbr	"inject useful and sensible default behaviors into setuptools - Python 3.x PBR (Python Build Reasonableness) is a library that injects some useful and sensible default behaviors into your setuptools run. PBR can: * Manage version number based on git revisions and tags (Version file). * Generate AUTHORS file from git log * Generate ChangeLog from git log * Generate Sphinx autodoc stub files for your whole module * Store your dependencies in a pip requirements file * Use your README file as a long_description * Smartly find packages under your root package . PBR is only mildly configurable. The basic idea is that there's a decent way to run things and if you do you should reap the rewards because then it's simple and repeatable. If you want to do things differently cool! But you've already got the power of Python at your fingertips so you don't really need PBR. . PBR builds on top of `d2to1` to provide for declarative configuration. It then filters the `setup.cfg` data through a setup hook to fill in default values and provide more sensible behaviors. . This package provides support for Python 3.x."	BSD-2-Clause BSD-3-Clause Apache-2.0			

Package name	Source	Package Description	Package License	Encryption types	Encryption Max Key Length	Comment
erlang-corba	erlang	"Erlang/OTP applications for CORBA support The Orber application is an Erlang implementation of a CORBA Object Request Broker. . The cosEvent application is an Erlang implementation of a CORBA Service CosEvent. . The cosEventDomain application is an Erlang implementation of a CORBA Service CosEventDomainAdmin. . The cosFileTransfer Application is an Erlang implementation of the OMG CORBA File Transfer Service. . The cosNotification application is an Erlang implementation of the OMG CORBA Notification Service. . The cosProperty Application is an Erlang implementation of the OMG CORBA Property Service. . The cosTime application is an Erlang implementation of the OMG CORBA Time and TimerEvent Services. . The cosTransactions application is an Erlang implementation of the OMG CORBA Transaction Service."	LGPL-2.1 Apache-2.0	aes	256	
erlang-corba	erlang	"Erlang/OTP applications for CORBA support The Orber application is an Erlang implementation of a CORBA Object Request Broker. . The cosEvent application is an Erlang implementation of a CORBA Service CosEvent. . The cosEventDomain application is an Erlang implementation of a CORBA Service CosEventDomainAdmin. . The cosFileTransfer Application is an Erlang implementation of the OMG CORBA File Transfer Service. . The cosNotification application is an Erlang implementation of the OMG CORBA Notification Service. . The cosProperty Application is an Erlang implementation of the OMG CORBA Property Service. . The cosTime application is an Erlang implementation of the OMG CORBA Time and TimerEvent Services. . The cosTransactions application is an Erlang implementation of the OMG CORBA Transaction Service."	LGPL-2.1 Apache-2.0	diffiehellman	unlimited	
erlang-corba	erlang	"Erlang/OTP applications for CORBA support The Orber application is an Erlang implementation of a CORBA Object Request Broker. . The cosEvent application is an Erlang implementation of a CORBA Service CosEvent. . The cosEventDomain application is an Erlang implementation of a CORBA Service CosEventDomainAdmin. . The cosFileTransfer Application is an Erlang implementation of the OMG CORBA File Transfer Service. . The cosNotification application is an Erlang implementation of the OMG CORBA Notification Service. . The cosProperty Application is an Erlang implementation of the OMG CORBA Property Service. . The cosTime application is an Erlang implementation of the OMG CORBA Time and TimerEvent Services. . The cosTransactions application is an Erlang implementation of the OMG CORBA Transaction Service."	LGPL-2.1 Apache-2.0	blowfish	448	
erlang-corba	erlang	"Erlang/OTP applications for CORBA support The Orber application is an Erlang implementation of a CORBA Object Request Broker. . The cosEvent application is an Erlang implementation of a CORBA Service CosEvent. . The cosEventDomain application is an Erlang implementation of a CORBA Service CosEventDomainAdmin. . The cosFileTransfer Application is an Erlang implementation of the OMG CORBA File Transfer Service. . The cosNotification application is an Erlang implementation of the OMG CORBA Notification Service. . The cosProperty Application is an Erlang implementation of the OMG CORBA Property Service. . The cosTime application is an Erlang implementation of the OMG CORBA Time and TimerEvent Services. . The cosTransactions application is an Erlang implementation of the OMG CORBA Transaction Service."	LGPL-2.1 Apache-2.0	sha	512	



Package name	Source	Package Description	Package License	Encryption types	Encryption Max Key Length	Comment
erlang-corba	erlang	"Erlang/OTP applications for CORBA support The Orber application is an Erlang implementation of a CORBA Object Request Broker. . The cosEvent application is an Erlang implementation of a CORBA Service CosEvent. . The cosEventDomain application is an Erlang implementation of a CORBA Service CosEventDomainAdmin. . The cosFileTransfer Application is an Erlang implementation of the OMG CORBA File Transfer Service. . The cosNotification application is an Erlang implementation of the OMG CORBA Notification Service. . The cosProperty Application is an Erlang implementation of the OMG CORBA Property Service. . The cosTime application is an Erlang implementation of the OMG CORBA Time and TimerEvent Services. . The cosTransactions application is an Erlang implementation of the OMG CORBA Transaction Service."	LGPL-2.1 Apache-2.0	hmac	160	
erlang-corba	erlang	"Erlang/OTP applications for CORBA support The Orber application is an Erlang implementation of a CORBA Object Request Broker. . The cosEvent application is an Erlang implementation of a CORBA Service CosEvent. . The cosEventDomain application is an Erlang implementation of a CORBA Service CosEventDomainAdmin. . The cosFileTransfer Application is an Erlang implementation of the OMG CORBA File Transfer Service. . The cosNotification application is an Erlang implementation of the OMG CORBA Notification Service. . The cosProperty Application is an Erlang implementation of the OMG CORBA Property Service. . The cosTime application is an Erlang implementation of the OMG CORBA Time and TimerEvent Services. . The cosTransactions application is an Erlang implementation of the OMG CORBA Transaction Service."	LGPL-2.1 Apache-2.0	md5	128	
python3-wrapt	python-wrapt	"decorators wrappers and monkey patching. - Python 3.x The aim of the wrapt module is to provide a transparent object proxy for Python which can be used as the basis for the construction of function wrappers and decorator functions. . The wrapt module focuses very much on correctness. It therefore goes way beyond existing mechanisms such as functools.wraps() to ensure that decorators preserve introspectability signatures type checking abilities etc. The decorators that can be constructed using this module will work in far more scenarios than typical decorators and provide more predictable and consistent behaviour. . To ensure that the overhead is as minimal as possible a C extension module is used for performance critical components. An automatic fallback to a pure Python implementation is also provided where a target system does not have a compiler to allow the C extension to be compiled. . This package contains the Python 3.x module."	BSD-2-Clause			

Package name	Source	Package Description	Package License	Encryption types	Encryption Max Key Length	Comment
python-xstatic-spin	python-xstatic-spin	"Spin.js XStatic support - Python 2.x XStatic is a packaging standard to package external (often 3rd party) static files as a Python package so they are easily usable on all operating systems with any package management system or even without one. . Many Python projects need to use some specific data files like javascript css java applets images etc. Sometimes these files belong to YOUR project (then you may want to package them separately but you could also just put them into your main package). But in many other cases those files are maintained by someone else (like jQuery javascript library or even much bigger js libraries or applications) and you definitely do not really want to merge them into your project. So you want to have static file packages but you don?t want to get lots of stuff you do not want. Thus stuff required by XStatic file packages (especially the main toplevel XStatic package) tries to obey to be a MINIMAL no-fat thing. XStatic doesn't "sell" any web framework or other stuff you don't want. Maybe there will be optional XStatic extensions for all sorts of stuff but they won't be required if you just want the files. . By having static files in packages it is also easier to build virtual envs support linux/bsd/... distribution package maintainers and even windows installs using the same mechanism. . This package provides spin.js support as a Python 2.x module."	Apache-2.0			
python-keystone	keystone	"OpenStack identity service - library This is the identity service used by OpenStack for authentication (authN) and high-level authorization (authZ). It currently supports token-based authN with user/service authZ and is scalable to support OAuth SAML and OpenID in future versions. Out of the box Keystone uses SQLite for its identity store database with the option to connect to external LDAP. . This package contains the Python libraries."	Apache-2.0			
python3-networkx	python-networkx	"tool to create manipulate and study complex networks (Python3) NetworkX is a Python-based package for the creation manipulation and study of the structure dynamics and functions of complex networks. . The structure of a graph or network is encoded in the edges (connections links ties arcs bonds) between nodes (vertices sites actors). If unqualified by graph it's meant a simple undirected graph i.e. no self-loops and no multiple edges are allowed. By a network it's usually meant a graph with weights (fields properties) on nodes and/or edges. . The potential audience for NetworkX includes: mathematicians physicists biologists computer scientists social scientists. . This package contains the Python 3 version of NetworkX."	GPL-3.0 BSD-3-Clause			
python-sqlalchemy-ext	sqlalchemy	"SQL toolkit and Object Relational Mapper for Python - C extension SQLAlchemy is an SQL database abstraction library for Python. . This package contains C coded extension accelerator for SQLAlchemy."	Unknown			

Package name	Source	Package Description	Package License	Encryption types	Encryption Max Key Length	Comment
python3-swiftclient	python-swiftclient	"Client library for Openstack Swift API - Python 3.x OpenStack Object Storage (code-named Swift) creates redundant scalable object storage using clusters of standardized servers to store petabytes of accessible data. It is not a file system or real-time data storage system but rather a long-term storage system for a more permanent type of static data that can be retrieved leveraged and then updated if necessary. Primary examples of data that best fit this type of storage model are virtual machine images photo storage email storage and backup archiving. Having no central "brain" or master point of control provides greater scalability redundancy and permanence. . Objects are written to multiple hardware devices in the data center with the OpenStack software responsible for ensuring data replication and integrity across the cluster. Storage clusters can scale horizontally by adding new nodes. Should a node fail OpenStack works to replicate its content from other active nodes. Because OpenStack uses software logic to ensure data replication and distribution across different devices inexpensive commodity hard drives and servers can be used in lieu of more expensive equipment. . This package provides a client for the OpenStack Swift API. There's a Python API (the "swiftclient" module) and a command-line script ("swift"). . This package contains the Python 3.x module."	GPL-2.0 Apache-2.0			
python3-sphinx-rtd-theme	sphinx-rtd-theme	"sphinx theme from readthedocs.org (Python 3) This mobile-friendly sphinx theme was initially created for readthedocs.org but can be incorporated in any project. . Among other things it features a left panel with a browseable table of contents and a search bar. . This is the Python 3 version of the package."	BSD-2-Clause Apache-2.0			
python-sphinx-rtd-theme	sphinx-rtd-theme	"sphinx theme from readthedocs.org (Python 2) This mobile-friendly sphinx theme was initially created for readthedocs.org but can be incorporated in any project. . Among other things it features a left panel with a browseable table of contents and a search bar. . This is the Python 2 version of the package."	BSD-2-Clause Apache-2.0			
libnl-nf-3-dev	libnl3	"development library and headers for libnl-nf-3 This is a library for applications dealing with netlink sockets. The library provides an interface for raw netlink messaging and various netlink family specific interfaces. . This package contains the files that are needed to build applications using libnl-nf-3."	GPL-2.0 LGPL-2.1			
python3-future	python-future	"Clean single-source support for Python 3 and 2 - Python 3.x Future is the missing compatibility layer between Python 2 and Python 3. It allows one to use a single clean Python 3.x-compatible codebase to support both Python 2 and Python 3 with minimal overhead. . The imports have no effect on Python 3. On Python 2 they shadow the corresponding builtins which normally have different semantics on Python 3 versus 2 to provide their Python 3 semantics. . This package contains the Python 3.x module."	BSD-2-Clause BSD-3-Clause Public Domain Apache-2.0			

Package name	Source	Package Description	Package License	Encryption types	Encryption Max Key Length	Comment
python3-keystoneclient	python-keystoneclient	"client library for the OpenStack Keystone API - Python 3.x This is the identity service used by OpenStack for authentication (authN) and high-level authorization (authZ). It currently supports token-based authN with user/service authZ and is scalable to support OAuth SAML and OpenID in future versions. Out of the box Keystone uses SQLite for its identity store database with the option to connect to external LDAP. . This is a client for the OpenStack Keystone API. There's a Python API (the "keystoneclient" module) and a command-line script ("keystone"). . Installing this package gets you a shell command that you can use to interact with Keystone's API. Note that the "keystone" command line is currently deprecated in favor of the "openstack" one available within the "python3-openstackclient" package. . This package contains the Python 3.x module."	Apache-2.0			
python3-libvirt	libvirt-python	"libvirt Python 3 bindings Libvirt is a C toolkit to interact with the virtualization capabilities of recent versions of Linux (and other OSes). The library aims at providing a long term stable C API for different virtualization mechanisms. It currently supports QEMU KVM XEN OpenVZ LXC and VirtualBox. . This package contains the Python 3 bindings for the libvirt library"	GPL-2.0+ GPL-2.0 LGPL-2.1			
cinder-volume	cinder	"OpenStack block storage system - Volume server Cinder is a block Storage-as-a-Service system for the OpenStack cloud computing suite. It re-implements the features of Nova-volume which it directly replaces. . Cinder uses LVM partitions of your volume servers in order to provide iSCSI permanent block storage devices for your virtual machines running on Nova. It also has back-end drivers for many hardware and software storage solutions like Ceph NFS Net-APP etc. . This package contains the Cinder Volume server."	Apache-2.0			
python3-reno	python-reno	"RElease NOtes manager - Python 3.x Reno is a release notes manager for storing release notes in a git repository and then building documentation from them. . This package contains the Python 3.x module."	Apache-2.0			
python-appdirs	appdirs	"determining appropriate platform-specific directories (Python 2) Depending on your system (Linux Mac OS X or Windows) you have to use different directories for storing user data. appdirs will help you choose an appropriate: . * user data directory (user_data_dir function) * user config directory (user_config_dir function) * user cache directory (user_cache_dir function) * site data directory (site_data_dir function) * site config directory (site_config_dir function) * user log directory (user_log_dir function) . On Linux systems these function return directories based on the XDG Base Directory Specification. . This is the Python 2 version of the package."	MIT			
python3-cffi-backend-dbg	python-cffi	"Foreign Function Interface for Python 3 calling C code (Debug version) Convenient and reliable way of calling C code from Python 3. . The aim of this project is to provide a convenient and reliable way of calling C code from Python. It keeps Python logic in Python and minimises the C required. It is able to work at either the C API or ABI level unlike most other approaches that only support the ABI level. . This package contains the debug version of the python3-cffi backend."	Unknown			

Package name	Source	Package Description	Package License	Encryption types	Encryption Max Key Length	Comment
python-alembic	alembic	"lightweight database migration tool for SQLAlchemy - Python 2.x Alembic is a new database migration tool written by the author of SQLAlchemy. A migration tool offers the following functionality: . * Can emit ALTER statements to a database in order to change the structure of tables and other constructs * Provides a system whereby "migration scripts" may be constructed; each script indicates a particular series of steps that can "upgrade" a target database to a new version and optionally a series of steps that can "downgrade" similarly doing the same steps in reverse. * Allows the scripts to execute in some sequential manner. . This package contains the Python 2.x module."	MIT			
python-tk-dbg	python-stdlib-extensions	"Tkinter - Writing Tk applications with Python (debug extension) A module for writing portable GUI applications with Python using Tk. Also known as Tkinter. . This package contains the extensions built for the Python debug interpreter."	unknown			
python3-pika-pool	python-pika-pool	"Pika connection pooling. - Python 3.x"	BSD MIT			
gf-complete-tools	gf-complete	"Galois Field Arithmetic - tools Galois Field arithmetic forms the backbone of erasure-coded storage systems most famously the Reed-Solomon erasure code. A Galois Field is defined over w-bit words and is termed GF(2 <sup>w</sup> ). As such the elements of a Galois Field are the integers 0 1 . . . 2 <sup>w</sup> - 1. Galois Field arithmetic defines addition and multiplication over these closed sets of integers in such a way that they work as you would hope they would work. Specifically every number has a unique multiplicative inverse. Moreover there is a value typically the value 2 which has the property that you can enumerate all of the non-zero elements of the field by taking that value to successively higher powers. . This package contains miscellaneous tools for working with gf-complete."	BSD-3-Clause			
neutron-vpn-agent	neutron-vpnaas	"Neutron is a virtual network service for Openstack - VPN agent Neutron is a virtual network service for Openstack and a part of Netstack. Just like OpenStack Nova provides an API to dynamically request and configure virtual servers Neutron provides an API to dynamically request and configure virtual networks. These networks connect "interfaces" from other OpenStack services (e.g. virtual NICs from Nova VMs). The Neutron API supports extensions to provide advanced network capabilities (e.g. QoS ACLs network monitoring etc.) . This package provides the VPN agent which also provides L3 agent support."	Apache-2.0			
python-googleapi-samples	python-googleapi	"Google APIs Client Library for Python samples This package contains the Google APIs Client Library for Python which is the core Python library for accessing. . This package contains some samples for the python-googleapi package."	GPL-3.0 Apache-2.0			
python-heat	heat	"OpenStack orchestration service - Python files Heat is a service to orchestrate multiple composite cloud applications using templates through both an OpenStack-native ReST API and a CloudFormation-compatible Query API. . This package contains the Python libraries."	Apache-2.0			

Package name	Source	Package Description	Package License	Encryption types	Encryption Max Key Length	Comment
glance-registry	glance	"OpenStack Image Registry and Delivery Service - registry server The Glance project provides services for discovering registering and retrieving virtual machine images over the cloud. They may be stand-alone services or may be used to deliver images from object stores such as OpenStack's Swift service to Nova's compute nodes. . This package contains the Glance registry server."	Apache-2.0			
qemu-system-arm	qemu	"QEMU full system emulation binaries (arm) QEMU is a fast processor emulator: currently the package supports ARM emulation. By using dynamic translation it achieves reasonable speed while being easy to port on new host CPUs. . This package provides the full system emulation binaries to emulate the following arm hardware: aarch64 arm. . In system emulation mode QEMU emulates a full system including a processor and various peripherals. It enables easier testing and debugging of system code. It can also be used to provide virtual hosting of several virtual machines on a single server."	GPL-2.0 MIT	crypt	65	
qemu-system-arm	qemu	"QEMU full system emulation binaries (arm) QEMU is a fast processor emulator: currently the package supports ARM emulation. By using dynamic translation it achieves reasonable speed while being easy to port on new host CPUs. . This package provides the full system emulation binaries to emulate the following arm hardware: aarch64 arm. . In system emulation mode QEMU emulates a full system including a processor and various peripherals. It enables easier testing and debugging of system code. It can also be used to provide virtual hosting of several virtual machines on a single server."	GPL-2.0 MIT	aes	256	
qemu-system-arm	qemu	"QEMU full system emulation binaries (arm) QEMU is a fast processor emulator: currently the package supports ARM emulation. By using dynamic translation it achieves reasonable speed while being easy to port on new host CPUs. . This package provides the full system emulation binaries to emulate the following arm hardware: aarch64 arm. . In system emulation mode QEMU emulates a full system including a processor and various peripherals. It enables easier testing and debugging of system code. It can also be used to provide virtual hosting of several virtual machines on a single server."	GPL-2.0 MIT	des	56	
qemu-system-arm	qemu	"QEMU full system emulation binaries (arm) QEMU is a fast processor emulator: currently the package supports ARM emulation. By using dynamic translation it achieves reasonable speed while being easy to port on new host CPUs. . This package provides the full system emulation binaries to emulate the following arm hardware: aarch64 arm. . In system emulation mode QEMU emulates a full system including a processor and various peripherals. It enables easier testing and debugging of system code. It can also be used to provide virtual hosting of several virtual machines on a single server."	GPL-2.0 MIT	tripledes	168	

Package name	Source	Package Description	Package License	Encryption types	Encryption Max Key Length	Comment
qemu-system-arm	qemu	"QEMU full system emulation binaries (arm) QEMU is a fast processor emulator: currently the package supports ARM emulation. By using dynamic translation it achieves reasonable speed while being easy to port on new host CPUs. . This package provides the full system emulation binaries to emulate the following arm hardware: aarch64 arm. . In system emulation mode QEMU emulates a full system including a processor and various peripherals. It enables easier testing and debugging of system code. It can also be used to provide virtual hosting of several virtual machines on a single server."	GPL-2.0 MIT	sha	512	
libpengine10	pacemaker	"cluster resource manager Policy Engine library At its core Pacemaker is a distributed finite state machine capable of co-ordinating the startup and recovery of inter-related services across a set of machines. . Pacemaker understands many different resource types (OCF SYSV systemd) and can accurately model the relationships between them (colocation ordering). . It can even use technology such as Docker to automatically isolate the resources managed by the cluster. . This package contains the Policy Engine library."	GPL-2.0+ GPL-2.0 LGPL-2.1	md5	128	
python-alabaster	alabaster	"Configurable sidebar-enabled Sphinx theme (Python 2) This theme is a modified "Kr" Sphinx theme from @kennethreitz (especially as used in his Requests project) which was itself originally based on @mitsuhiko's theme used for Flask & related projects. . This is the Python 2 version of the package."	BSD-3-Clause			
openjdk-8-jre-jamvm	openjdk-8	"Alternative JVM for OpenJDK using JamVM The package provides an alternative runtime using the JamVM. This is a somewhat faster alternative than the Zero port on architectures like armel mips mipsel powerpc. . The VM is started with the option '-jamvm'. See the README.Debian for details."	GPL-2.0 LGPL-2.0 LGPL-2.1 Public Domain Apache-2.0			
python-gabbi	python-gabbi	"declarative HTTP testing library - Python 2.x Gabbi is a tool for running HTTP tests where requests and responses are represented in a declarative form. . Gabbi works to bridge the gap between human readable YAML files that represent HTTP requests and expected responses and the obscured realm of Python-based object-oriented unit tests in the style of the unittest module and its derivatives. . Each YAML file represents an ordered list of HTTP requests along with the expected responses. This allows a single file to represent a process in the API being tested. For example: . * Create a resource. * Retrieve a resource. * Delete a resource. * Retrieve a resource again to confirm it is gone. . At the same time it is still possible to ask gabbi to run just one request. If it is in a sequence of tests those tests prior to it in the YAML file will be run (in order). In any single process any test will only be run once. Concurrency is handled such that one file runs in one process. . These features mean that it is possible to create tests that are useful for both humans (as tools for improving and developing APIs) and automated CI systems. . This package contains the Python 2.x module."	Apache-2.0			

Package name	Source	Package Description	Package License	Encryption types	Encryption Max Key Length	Comment
python3-qpid-proton	qpid-proton	"language bindings for Qpid Proton messaging framework - Python 3.x Qpid Proton is a high-performance lightweight messaging library. It can be used in the widest range of messaging applications including brokers client libraries routers bridges proxies and more. Proton makes it trivial to integrate with the AMQP 1.0 ecosystem from any platform environment or language. . This package provides Python 3.x language bindings for Qpid Proton."	GPL-2.0+ GPL-2.0 BSD-3-Clause Apache-2.0			
python3-colorama	python-colorama	"Cross-platform colored terminal text in Python - Python 3.x Python-colorama provides a simple cross-platform API to print colored terminal text from Python applications. . ANSI escape character sequences are commonly used to produce colored terminal text on Unix. Colorama provides some shortcuts to generate these sequences. . This has the happy side-effect that existing applications or libraries which already use ANSI sequences to produce colored output on Linux. . This package provides the module for Python 3."	GPL-2.0+ GPL-2.0 BSD-3-Clause			
python-tempest-lib	python-tempest-lib	"OpenStack Functional Testing Library - Python 2.x This package contains the OpenStack Functional Testing Library which is used by the Tempest Functional Testing suite. . This package contains the Python 2.x module."	Apache-2.0			
python3-pyroute2	pyroute2	"Python3 Netlink library Pyroute2 is a pure Python netlink and Linux network configuration library. It requires only Python stdlib no 3rd party libraries. Later it can change but the deps tree will remain as simple as it is possible. . This is the Python 3 compatible package."	GPL-2.0+ GPL-2.0			
python3-nose-parameterized	python-nose-parameterized	"Decorator for parameterized testing with Nose - Python 3.x nose-parameterized is a decorator for parameterized testing of Python code with nose. . The provided decorators make it simple to pass lists iterables tuples or callables to the test functions. This allows you to separate the data from the test without having to subclass unittest.testcase. . This package contains the Python 3.x module."	BSD-2-Clause			
python3-netifaces	netifaces	"portable network interface information - Python 3.x netifaces provides a (hopefully portable-ish) way for Python programmers to get access to a list of the network interfaces on the local machine and to obtain the addresses of those network interfaces. . This package contains the module for Python 3.x."	MIT			
python-monotonic	python-monotonic	"implementation of time.monotonic() - Python 2.x This module provides a monotonic() function which returns the value (in fractional seconds) of a clock which never goes backwards. On Python 3.3 or newer monotonic will be an alias of time.monotonic from the standard library. On older versions it will fall back to an equivalent implementation: GetTickCount64 on Windows mach_absolute_time on OS X and clock_gettime(3) on Linux/BSD. . If no suitable implementation exists for the current platform attempting to import this module (or to import from it) will cause a RuntimeError exception to be raised. . This package contains the Python 2.x module."	Apache-2.0			
i40e-dkms	i40e-dkms	"i40e driver in DKMS format."	unknown			
neutron-plugin-openvswitch-agent	neutron	"transitional dummy package for switching to Neutron OpenVswitch agent This is a transitional dummy package due to the move of the OpenVswitch agent from core plugin to ML2 MechanismDriver. Once you have upgraded this package can safely be removed. This package provides a transition path from neutron-plugin-openvswitch-agent to neutron-openvswitch-agent."	Apache-2.0			



Package name	Source	Package Description	Package License	Encryption types	Encryption Max Key Length	Comment
qemu-kvm	qemu	"QEMU Full virtualization QEMU is a fast processor emulator. This package depends on the appropriate qemu-system-\$arch to enable KVM to be run. It also includes a script /usr/bin/kvm which runs the appropriate qemu-system-\$arch in kvm mode. . Please note that old qemu-kvm configuration files (in /etc/kvm/) are no longer used."	GPL-2.0 MIT	crypt	65	
qemu-kvm	qemu	"QEMU Full virtualization QEMU is a fast processor emulator. This package depends on the appropriate qemu-system-\$arch to enable KVM to be run. It also includes a script /usr/bin/kvm which runs the appropriate qemu-system-\$arch in kvm mode. . Please note that old qemu-kvm configuration files (in /etc/kvm/) are no longer used."	GPL-2.0 MIT	aes	256	
qemu-kvm	qemu	"QEMU Full virtualization QEMU is a fast processor emulator. This package depends on the appropriate qemu-system-\$arch to enable KVM to be run. It also includes a script /usr/bin/kvm which runs the appropriate qemu-system-\$arch in kvm mode. . Please note that old qemu-kvm configuration files (in /etc/kvm/) are no longer used."	GPL-2.0 MIT	des	56	
qemu-kvm	qemu	"QEMU Full virtualization QEMU is a fast processor emulator. This package depends on the appropriate qemu-system-\$arch to enable KVM to be run. It also includes a script /usr/bin/kvm which runs the appropriate qemu-system-\$arch in kvm mode. . Please note that old qemu-kvm configuration files (in /etc/kvm/) are no longer used."	GPL-2.0 MIT	tripledes	168	
qemu-kvm	qemu	"QEMU Full virtualization QEMU is a fast processor emulator. This package depends on the appropriate qemu-system-\$arch to enable KVM to be run. It also includes a script /usr/bin/kvm which runs the appropriate qemu-system-\$arch in kvm mode. . Please note that old qemu-kvm configuration files (in /etc/kvm/) are no longer used."	GPL-2.0 MIT	sha	512	
python-whoosh-doc	python-whoosh	"full-text indexing search and spell checking library (doc) Whoosh is a fast pure-Python indexing and search library. Programmers can use it to easily add search functionality to their applications and websites. As Whoosh is pure Python you don't have to compile or install a binary support library and/or make Python work with a JVM yet indexing and searching is still very fast. Whoosh is designed to be modular so every part can be extended or replaced to meet your needs exactly. . This package contains the library documentation for python-whoosh."	BSD-2-Clause			
libcmap-dev	corosync	"Standards-based cluster framework Cmap devel files Corosync is a project to implement a production quality "Revised BSD" licensed implementation of all core functionalities required by openais. The project implements cutting edge research on virtual synchrony to provide 100% correct operation in the face of failures or partitionable networks with excellent performance characteristics. . The Application Interface Specification is a software API and policies which are used to develop applications that maintain service during faults. . This package contains the devel files of Cmap a library which is part of Corosync."	Public Domain			
erlang typer	erlang	"Erlang/OTP code type annotator TypEr is a tool that displays and automatically inserts type annotations in Erlang code. It uses Dialyzer to infer variable types."	LGPL-2.1 Apache-2.0	aes	256	
erlang typer	erlang	"Erlang/OTP code type annotator TypEr is a tool that displays and automatically inserts type annotations in Erlang code. It uses Dialyzer to infer variable types."	LGPL-2.1 Apache-2.0	diffiehellman	unlimited	
erlang typer	erlang	"Erlang/OTP code type annotator TypEr is a tool that displays and automatically inserts type annotations in Erlang code. It uses Dialyzer to infer variable types."	LGPL-2.1 Apache-2.0	blowfish	448	

Package name	Source	Package Description	Package License	Encryption types	Encryption Max Key Length	Comment
erlang-typer	erlang	"Erlang/OTP code type annotator TypEr is a tool that displays and automatically inserts type annotations in Erlang code. It uses Dialyzer to infer variable types."	LGPL-2.1 Apache-2.0	sha	512	
erlang-typer	erlang	"Erlang/OTP code type annotator TypEr is a tool that displays and automatically inserts type annotations in Erlang code. It uses Dialyzer to infer variable types."	LGPL-2.1 Apache-2.0	hmac	160	
erlang-typer	erlang	"Erlang/OTP code type annotator TypEr is a tool that displays and automatically inserts type annotations in Erlang code. It uses Dialyzer to infer variable types."	LGPL-2.1 Apache-2.0	md5	128	
libmesos	mesos	"Apache Mesos Library Apache Mesos is a cluster manager that provides efficient resource isolation and sharing across distributed applications or frameworks. It can run Hadoop MPI Hypertable Spark (a new framework for low-latency interactive and iterative jobs) and other applications."	GPL-2.0 GPL-3.0 BSD-3-Clause BSD MIT Public Domain Apache-2.0			
python-kolla	kolla	"containers and deployment tools for operating OpenStack clouds - Python libs Kolla provides production-ready containers and deployment tools for operating OpenStack clouds. It provides Docker containers and Ansible playbooks to meet its mission. Kolla is highly opinionated out of the box but allows for complete customization. This permits operators with little experience to deploy OpenStack quickly and as experience grows modify the OpenStack configuration to suit the operator's exact requirements. . This package provides the Python code."	Apache-2.0			
python3-psycopg2	psycopg2	"Python 3 module for PostgreSQL psycopg is a PostgreSQL database adapter for the Python3 programming language (just like pygresql and popy.) This is version 2 a complete rewrite of the original code to provide new-style classes for connection and cursor objects and other sweet candies. Like the original psycopg 2 was written with the aim of being very small and fast and stable as a rock. . psycopg is different from the other database adapter because it was designed for heavily multi-threaded applications that create and destroy lots of cursors and make a conspicuous number of concurrent INSERTs or UPDATES. psycopg 2 also provides full asynchronous operations for the really brave programmer. . The main advantages of psycopg2 are that it supports the full Python DBAPI-2.0 and being thread safe at level 2. It also includes some extensions to the standard DBAPI-2.0 to allow for better thread performance."	Public Domain			
python-bootstrapform	python-django-bootstrap-form	"generate twitter-bootstrap form output for django form - Python 2.x Django bootstrap form generates twitter-bootstrap form output for django form. A simple Django template tag to work with twitter bootstrap. . This package contains the Python 2.x module."	BSD-3-Clause			

Package name	Source	Package Description	Package License	Encryption types	Encryption Max Key Length	Comment
python3-xstatic-jquery.tablesorter	python-xstatic-jquery.tablesorter	"jQuery Tablesorter XStatic support - Python 3.x XStatic is a packaging standard to package external (often 3rd party) static files as a Python package so they are easily usable on all operating systems with any package management system or even without one. . Many Python projects need to use some specific data files like javascript css java applets images etc. Sometimes these files belong to YOUR project (then you may want to package them separately but you could also just put them into your main package). But in many other cases those files are maintained by someone else (like jQuery javascript library or even much bigger js libraries or applications) and you definitely do not really want to merge them into your project. So you want to have static file packages but you don't want to get lots of stuff you do not want. Thus stuff required by XStatic file packages (especially the main toplevel XStatic package) tries to obey to be a MINIMAL no-fat thing. XStatic doesn't "sell" any web framework or other stuff you don't want. Maybe there will be optional XStatic extensions for all sorts of stuff but they won't be required if you just want the files. . By having static files in packages it is also easier to build virtual envs support linux/bsd/... distribution package maintainers and even windows installs using the same mechanism. . This package provides jQuery Tablesorter support as a Python 3.x module."	GPL-3.0			
ceilometer-common	ceilometer	"OpenStack efficient metering counters system - common files Ceilometer aims to deliver a Single Point Of Contact for billing systems providing all the counters they need to establish customer billing across all current and future OpenStack components. The delivery of counters must be traceable and auditable the counters must be easily extensible to support new projects and agents doing data collections should be independent of the overall system. . (A ceilometer is an instrument that measures cloud coverage.) . This package contains files that are needed for all parts of Ceilometer."	Apache-2.0			
python-murano	murano	"cloud-ready application catalog - Python 2.x server code Murano Project introduces an application catalog which allows application developers and cloud administrators to publish various cloud-ready applications in a browsable categorised catalog which may be used by the cloud users (including the inexperienced ones) to pick-up the needed applications and services and composes the reliable environments out of them in a "push-the-button" manner. . This package contains the Python 2.x server code."	Apache-2.0			
python3-kajiki	python-kajiki	"Really fast well-formed xml templates - Python 3.x Are you tired of the slow performance of Genshi? But you still long for the assurance that your output is well-formed that you miss from all those other templating engines? Do you wish you had Jinja's blocks with Genshi's syntax? Then look no further Kajiki is for you! Kajiki quickly compiles Genshi-like syntax to *real Python bytecode* that renders with blazing-fast speed! Don't delay! Pick up your copy of Kajiki today! . This package provides the Python 3.x module."	GPL-3.0 MIT			

Package name	Source	Package Description	Package License	Encryption types	Encryption Max Key Length	Comment
python-amqp	python-amqp	"Low-level AMQP client This is a fork of amqplib which was originally written by Barry Pederson. It is maintained by the Celery project and used by kombu as a pure Python alternative when librabbitmq is not available. . This library should be API compatible with librabbitmq. Differences from amqplib are: * Supports draining events from multiple channels (Connection.drain_events). * Support for timeouts. * Channels are restored after channel error instead of having to close the connection. * Support for heartbeats. * Supports RabbitMQ extensions: - Consumer Cancel Notifications. - Publisher confirms. - Exchange-to-exchange bindings: exchange_bind / exchange_unbind. * Support for basic_return. * Uses AMQP 0-9-1 instead of 0-8. * Exposes the underlying socket as Connection.sock. * Adds Channel.no_ack_consumers to keep track of consumer tags that set the no_ack flag. * Slightly better at error recovery."	GPL-2.0 LGPL-2.1			
python-falcon	python-falcon	"supersonic micro-framework for building cloud APIs - Python 2.x Falcon is a high-performance Python framework for building cloud APIs. It encourages the REST architectural style and tries to do as little as possible while remaining highly effective. . Unlike other Python web frameworks Falcon won't bottleneck your API's performance under highly concurrent workloads. Many frameworks max out at serving simple "hello world" requests at a few thousand req/sec while Falcon can easily serve many more on the same hardware. . Falcon isn't very opinionated. In other words the framework leaves a lot of decisions and implementation details to you. . Features: * Intuitive routing via URI templates and resource classes * Easy access to headers and bodies through request and response classes * Idiomatic HTTP error responses via a handy exception base class * DRY request processing using global resource and method hooks * Snappy unit testing through WSGI helpers and mocks * 20% speed boost when Cython is available * Python 2.6 Python 2.7 PyPy and Python 3.3 support . This package provides the Python 2.x module."	Apache-2.0			
python-pexpect	pexpect	"Python module for automating interactive applications Pexpect is a pure Python module for spawning child applications; controlling them; and responding to expected patterns in their output. Pexpect works like Don Libes' Expect. Pexpect allows your script to spawn a child application and control it as if a human were typing commands."	ISC			
twemproxy	twemproxy	"A fast light-weight proxy for memcached and redis twemproxy (pronounced "two-em-proxy") aka nutcracker is a fast and lightweight proxy for memcached and redis protocol. It was primarily built to reduce the connection count on the backend caching servers."	GPL-2.0+ GPL-2.0			

Package name	Source	Package Description	Package License	Encryption types	Encryption Max Key Length	Comment
puppet-testsuite	puppet	"configuration management system development test suite Puppet is a server automation tool. It is composed of a declarative language for expressing system configuration a client and server for distributing it and a library for realizing the configuration. . The primary design goal of Puppet is to have an expressive enough language backed by a powerful enough library that you can write your own server automation applications in just a few lines of code. Puppet?s deep extensibility and open source license lets you add functionality as needed and share your innovations with others. . This package provides all the tests from the upstream puppet source code. The tests are used for improving the QA of the puppet package. . Tests are installed under /usr/share/puppet-testsuite and can be performed using "rake unit" in that directory."	GPL-2.0+ GPL-2.0 BSD-3-Clause MIT Public Domain Apache-2.0			
python-django-compressor	python-django-compressor	"Compresses linked inline JS or CSS into single cached files - Python 2.7 Django Compressor combines and compresses linked and inline Javascript or CSS in a Django templates into cacheable static files by using the compress template tag. . This package contains the Python 2.7 module."	BSD-2-Clause MIT			
python-yaql	python-yaql	"Yet Another Query Language - Python 2.7 YAQL is a general purpose query language that is designed to operate on objects of arbitrary complexity. YAQL has a large standard library of functions for filtering grouping and aggregation of data. At the same time YAQL allows you to extend it by defining your own functions. . This package contains the Python 2.7 module."	Apache-2.0			
librados-dev	ceph	"RADOS distributed object store client library (development files) RADOS is a reliable autonomic distributed object storage cluster developed as part of the Ceph distributed storage system. This is a shared library allowing applications to access the distributed object store using a simple file-like interface. . This package contains development files needed for building applications that link against librados2."	GPL-2.0+ GPL-2.0 GPL-3.0 LGPL-2.0 LGPL-2.1 BSD-2-Clause BSD-3-Clause Public Domain Apache-2.0	crush	unlimited	cephhash
librados-dev	ceph	"RADOS distributed object store client library (development files) RADOS is a reliable autonomic distributed object storage cluster developed as part of the Ceph distributed storage system. This is a shared library allowing applications to access the distributed object store using a simple file-like interface. . This package contains development files needed for building applications that link against librados2."	GPL-2.0+ GPL-2.0 GPL-3.0 LGPL-2.0 LGPL-2.1 BSD-2-Clause BSD-3-Clause Public Domain Apache-2.0	sha	512	
librados-dev	ceph	"RADOS distributed object store client library (development files) RADOS is a reliable autonomic distributed object storage cluster developed as part of the Ceph distributed storage system. This is a shared library allowing applications to access the distributed object store using a simple file-like interface. . This package contains development files needed for building applications that link against librados2."	GPL-2.0+ GPL-2.0 GPL-3.0 LGPL-2.0 LGPL-2.1 BSD-2-Clause BSD-3-Clause Public Domain Apache-2.0	aes	256	
librados-dev	ceph	"RADOS distributed object store client library (development files) RADOS is a reliable autonomic distributed object storage cluster developed as part of the Ceph distributed storage system. This is a shared library allowing applications to access the distributed object store using a simple file-like interface. . This package contains development files needed for building applications that link against librados2."	GPL-2.0+ GPL-2.0 GPL-3.0 LGPL-2.0 LGPL-2.1 BSD-2-Clause BSD-3-Clause Public Domain Apache-2.0	abacus	0	

Package name	Source	Package Description	Package License	Encryption types	Encryption Max Key Length	Comment
librados-dev	ceph	"RADOS distributed object store client library (development files) RADOS is a reliable autonomic distributed object storage cluster developed as part of the Ceph distributed storage system. This is a shared library allowing applications to access the distributed object store using a simple file-like interface. . This package contains development files needed for building applications that link against librados2."	GPL-2.0+ GPL-2.0 GPL-3.0 LGPL-2.0 LGPL-2.1 BSD-2-Clause BSD-3-Clause Public Domain Apache-2.0	md5	128	
python-trollius	python-trollius	"port of the Tulip project on Python 2.7 - Python 2.x Trollius is a portage of the Tulip project (asyncio module PEP 3156) on Python 2. Trollius works on Python 2.6-3.4. It has been tested on Windows Linux Mac OS X FreeBSD and OpenIndiana. . This package contains the Python 2.x module."	Apache-2.0			
python3-nose	nose	"test discovery and running for Python3 unittest nose provides an alternate test discovery and running process for Python3 unittest one that is intended to mimic the behavior of py.test as much as is reasonably possible without resorting to too much magic"	GPL-2.0 Public Domain			
libnl-cli-3-200	libnl3	"library for dealing with netlink sockets - cli helpers This is a library for applications dealing with netlink sockets. The library provides an interface for raw netlink messaging and various netlink family specific interfaces. . Library for cli helpers in libnl-utils."	GPL-2.0 LGPL-2.1			
python-oslo.messaging-doc	oslo.messaging	"Oslo Messaging RPC library The Oslo Messaging API supports RPC and notifications over a number of different messaging transports. . This package contains the documentation."	Apache-2.0			
python-debtcollector	python-debtcollector	"collection of patterns to collect technical debt - Python 2.x Debtcollector is a collection of Python patterns to help collecting technical debt in a non-destructive manner (following deprecation patterns and strategies and so-on). . This package contains the Python 2.x module."	Apache-2.0			
python-httplib2	python-httplib2	"comprehensive HTTP client library written for Python httplib2.py supports many features left out of other HTTP libraries. * HTTP and HTTPS * Keep-Alive * Authentication * Caching * All Methods * Redirects * Compression * Lost update support * Unit Tested . This package provides module for python2 series."	GPL-2.0+ GPL-2.0 GPL-3.0 LGPL-2.1 BSD-3-Clause MIT			
neutron-server	neutron	"OpenStack virtual network service - server Neutron provides an API to dynamically request and configure virtual networks. These networks connect "interfaces" from other OpenStack services (such as vNICs from Nova VMs). The Neutron API supports extensions to provide advanced network capabilities including QoS ACLs and network monitoring. . This package provides the Neutron server."	Apache-2.0			
python-oslo.db-doc	<a href="#">python-oslo.db</a>	"database connectivity to the different backends and helper utils - doc The Oslo database handling library is part of the OpenStack project. It provides database connectivity to the different backends and also provides helper utils. . This package contains the documentation."	Apache-2.0			

Package name	Source	Package Description	Package License	Encryption types	Encryption Max Key Length	Comment
ceilometer-doc	ceilometer	"OpenStack efficient metering counters system - doc Ceilometer aims to deliver a Single Point Of Contact for billing systems providing all the counters they need to establish customer billing across all current and future OpenStack components. The delivery of counters must be traceable and auditable the counters must be easily extensible to support new projects and agents doing data collections should be independent of the overall system. . (A ceilometer is an instrument that measures cloud coverage.) . This package contains the documentation."	Apache-2.0			
libjs-lrdragndrop	libjs-lrdragndrop	"drag and drop module for Angularjs lrDragNDrop is a drag and drop module for Angularjs which allows one to drag items from one collection and drop to another one; or reorder the items within the same collection. . It is "item oriented" which imply: * the directives must be used with the standard ngRepeat directive * "adorners" can be added * works only with non empty collections"	Unknown			
python-novaclient-doc	python-novaclient	"client library for OpenStack Compute API - doc OpenStack Compute codenamed Nova is a cloud computing fabric controller designed to be modular and easy to extend and adapt. In addition to its "native" OpenStack API it also supports the Amazon EC2 API and it supports many different database backends (including SQLite MySQL and PostgreSQL) hypervisors (KVM Xen) and user directory systems (LDAP SQL). . Python novaclient library and nova CLI tool for interacting with OpenStack Compute (Nova) through the OpenStack Compute API. . This package provides the documentation."	Apache-2.0			
libcrmcluster4	pacemaker	"cluster resource manager cluster library At its core Pacemaker is a distributed finite state machine capable of co-ordinating the startup and recovery of inter-related services across a set of machines. . Pacemaker understands many different resource types (OCF SYSV systemd) and can accurately model the relationships between them (colocation ordering). . It can even use technology such as Docker to automatically isolate the resources managed by the cluster. . This package contains the cluster library."	GPL-2.0+ GPL-2.0 LGPL-2.1	md5	128	
python3-xstatic-angular-cookies	python-xstatic-angular-cookies	"Angular JS Cookies XStatic support - Python 3.x XStatic is a Python web development tool for handling required static data files from external projects such as CSS images and JavaScript. It provides a lightweight infrastructure to manage them via Python modules that your app can depend on in a portable virtualenv-friendly way instead of using embedded copies. . This package provides Angular JS cookies support as a Python 3.x module."	Unknown			
python-pika	python-pika	"is a RabbitMQ (AMQP-0-9-1) client library for Python. - Python 2.7 Pika is a pure-Python implementation of the AMQP 0-9-1 protocol that tries to stay fairly independent of the underlying network support library. Pika was developed primarily for use with RabbitMQ but should also work with other AMQP 0-9-1 brokers. . This package contains the Python 2.7 module."	BSD MIT			
python-oslo-concurrency-doc	python-oslo.concurrency	"transitional dummy package for python-oslo-concurrency-doc This transitional package is safe to remove and use python-oslo.concurrency-doc instead."	Apache-2.0			
python-sqlparse	sqlparse	"non-validating SQL parser for Python 2 Sqlparse is a library which provides support for parsing splitting and customizable formatting of SQL statements in Python environment. . This is the Python 2 version of the package."	GPL-2.0 BSD-2-Clause			

Package name	Source	Package Description	Package License	Encryption types	Encryption Max Key Length	Comment
python-automaton-doc	python-automaton	"friendly state machines - doc Automaton is a friendly state machines for Python. This state machine can be used to automatically run a given set of transitions and states in response to events (either from callbacks or from generator/iterator send() values see PEP 342). On each triggered event a on_enter and on_exit callback can also be provided which will be called to perform some type of action on leaving a prior state and before entering a new state. . This package contains the documentation."	Apache-2.0			
python-nose-timer	python-nose-timer	"timer plugin for nosetests - Python 2.x A timer plugin for nosetests that answers the question: how much time does every test take? Run nosetests with the --with-timer flag and you will see a list of the tests and the time spent by each one (in seconds): . myapp.tests.ABigTestCase.test_the_world_is_running: 56.0010s myapp.tests.ABigTestCase.test_the_rest_of_the_galaxy_is_running: 2356.0010s . It is also possible to list the 10 slowest tests this way: . nosetests --with-timer --timer-top-n 10 . This package contains the Python 2.x module."	MIT			
python3-xstatic-bootstrap-scss	python-xstatic-bootstrap-scss	"Bootstrap-SCSS 3.2.0 (XStatic packaging standard) - Python 3.x XStatic is a Python web development tool for handling required static data files from external projects such as CSS images and JavaScript. It provides a lightweight infrastructure to manage them via Python modules that your app can depend on in a portable virtualenv-friendly way instead of using embedded copies. . This package contains the Python 3.x module for Bootstrap-SCSS."	Unknown			
ceilometer-agent-compute	ceilometer	"OpenStack efficient metering counters system - compute agent Ceilometer aims to deliver a Single Point Of Contact for billing systems providing all the counters they need to establish customer billing across all current and future OpenStack components. The delivery of counters must be traceable and auditable the counters must be easily extensible to support new projects and agents doing data collections should be independent of the overall system. . (A ceilometer is an instrument that measures cloud coverage.) . This package contains the compute agent."	Apache-2.0			
python3-neutron-lib	python-neutron-lib	"Neutron shared routines and utilities - Python 3.x Neutron provides an API to dynamically request and configure virtual networks. These networks connect "interfaces" from other OpenStack services (such as vNICs from Nova VMs). The Neutron API supports extensions to provide advanced network capabilities including QoS ACLs and network monitoring. . Neutron-lib is an OpenStack library project used by Neutron Advanced Services and third-party projects to provide common functionality and remove duplication. . This package provides shared routines and utilities for Python 3.x."	Apache-2.0			



Package name	Source	Package Description	Package License	Encryption types	Encryption Max Key Length	Comment
python-rjsmin	python-rjsmin	"javascript minifier written in Python - Python 2.7 rJSmin is a javascript minifier written in Python. The minifier is based on the semantics of jsmin.c by Douglas Crockford. . The module is a re-implementation aiming for speed so it can be used at runtime (rather than during a preprocessing step). Usually it produces the same results as the original jsmin.c. It differs in the following ways: . - there is no error detection: unterminated string regex and comment literals are treated as regular javascript code and minified as such. - Control characters inside string and regex literals are left untouched; they are not converted to spaces (nor to) - Newline characters are not allowed inside string and regex literals except for line continuations in string literals (ECMA-5). - "return /regex/" is recognized correctly. - Line terminators after regex literals are handled more sensibly - "+ +" and "- -" sequences are not collapsed to '++' or '--' - Newlines before ! operators are removed more sensibly - Comments starting with an exclamation mark (!) can be kept optionally - rJSmin does not handle streams but only complete strings. (However the module provides a "streamy" interface). . Since most parts of the logic are handled by the regex engine it's way faster than the original Python port of jsmin.c by Baruch Even. The speed factor varies between about 6 and 55 depending on input and Python version (it gets faster the more compressed the input already is). Compared to the speed-refactored Python port by Dave St.Germain the performance gain is less dramatic but still between 3 and 50 (for huge inputs)). See the docs/BENCHMARKS file for details. . This package contains the Python 2.7 module."	GPL-2.0 BSD-3-Clause Apache-2.0			
python-keyring	python-keyring	"store and access your passwords safely The Python keyring library provides an easy way to access the system keyring service (e.g Gnome-Keyring KWallet) from Python. It can be used in any application that needs safe password storage."	GPL-3.0 MIT			
python3-elasticsearch	python-elasticsearch	"Python client for Elasticsearch (Python3 version) Official low-level client for Elasticsearch. Its goal is to provide common ground for all Elasticsearch-related code in Python; because of this it tries to be opinion-free and very extendable. . The client's features include: * translating basic Python data types to and from json (datetimes are not decoded for performance reasons) * configurable automatic discovery of cluster nodes * persistent connections * load balancing (with pluggable selection strategy) across all available nodes * failed connection penalization (time based - failed connections won't be retried until a timeout is reached) * thread safety * pluggable architecture . This package contains the Python 3 version of the library."	Apache-2.0			
python-csscompressor	python-csscompressor	"Python port of YUI CSS Compressor - Python 2.7 The Python csscompressor package provides an almost exact port of YUI CSS Compressor. It passes all original unittests. . This package contains the Python 2.7 module."	BSD-3-Clause			

Package name	Source	Package Description	Package License	Encryption types	Encryption Max Key Length	Comment
python-glanceclient-doc	python-glanceclient	"Client library for Openstack glance server - doc The Glance project provides services for discovering registering and retrieving virtual machine images over the cloud. They may be stand-alone services or may be used to deliver images from object stores such as OpenStack's Swift service to Nova's compute nodes. . This is a client for the Glance which uses the OpenStack Image API. There's a Python API (the "glanceclient" module) and a command-line script ("glance"). . This package provides the documentation and man page."	GPL-2.0+ GPL-2.0 Apache-2.0			
python-oslo.rootwrap-doc	oslo.rootwrap	"Fine filtering of shell commands as 'root' The Oslo Rootwrap allows fine filtering of shell commands to run as `root` from OpenStack services. . This package contains the documentation."	Apache-2.0			
python-websocket	websocket-client	"WebSocket client library for Python websocket-client provides a low-level synchronous API providing WebSocket client functionality to Python programs. It conforms to the WebSocket specification as standardized by the IETF in RFC 6455. . WebSocket is a protocol providing full-duplex communication channels over TCP mostly used in Web browsers. . This is the Python 2 version."	LGPL-2.1			
python-ibm-db-sa	python-ibm-db-sa	"SQLAlchemy support for IBM Data Servers - Python 2.x IBM_DB_SA implements the SQLAlchemy specification for supporting the IBM Data Servers: DB2. . This package contains the Python 2.x module."	Apache-2.0			
python-traceback2	python-traceback2	"backports of the traceback module - Python 2.7 This package offers a backport of the traceback package to older supported Pythons. Users would typically do: "import traceback2 as traceback" then use the module as if it was the system traceback. . In Python 2.x unlike traceback traceback2 creates unicode output (because it depends on the linecache2 module). . This package contains the Python 2.7 module."	Unknown			
python-xstatic-angular-cookies	python-xstatic-angular-cookies	"Angular JS Cookies XStatic support - Python 2.x XStatic is a Python web development tool for handling required static data files from external projects such as CSS images and JavaScript. It provides a lightweight infrastructure to manage them via Python modules that your app can depend on in a portable virtualenv-friendly way instead of using embedded copies. . This package provides Angular JS cookies support as a Python 2.x module. See the description of the libjs-angularjs package."	Unknown			
python-ceilometer	ceilometer	"OpenStack efficient metering counters system - Python libraries Ceilometer aims to deliver a Single Point Of Contact for billing systems providing all the counters they need to establish customer billing across all current and future OpenStack components. The delivery of counters must be traceable and auditable the counters must be easily extensible to support new projects and agents doing data collections should be independent of the overall system. . (A ceilometer is an instrument that measures cloud coverage.) . This package contains the Python libraries that are needed for all parts of Ceilometer."	Apache-2.0			

Package name	Source	Package Description	Package License	Encryption types	Encryption Max Key Length	Comment
python-requests-mock	python-requests-mock	"mock out responses from the requests package - Python 2.x requests-mock provides a building block to stub out the HTTP requests_ portions of your testing code. Everything in requests_ eventually goes through an adapter to do the transport work. requests-mock creates a custom adapter that allows you to predefine responses when certain URIs are called. There are then a number of methods provided to get the adapter used. . This package contains the Python 2.x module."	Apache-2.0			
libnl-cli-3-dev	libnl3	"development library and headers for libnl-cli-3 This is a library for applications dealing with netlink sockets. The library provides an interface for raw netlink messaging and various netlink family specific interfaces. . This package contains the files that are needed to build applications using libnl-cli-3."	GPL-2.0 LGPL-2.1			
libjerasure2	jerasure	"forward error correction erasure channel library - shared library In information theory an erasure code is a forward error correction (FEC) code for the binary erasure channel which transforms a message of symbols into a longer message (code word) with symbols such that the original message can be recovered from a subset of the symbols. . Jerasure is a shared library that been designed to be modular fast and flexible. It is used in storage systems such as Swift and Ceph to add fault tolerance. . This package contains the shared library."	BSD			
python3-cffi-backend	python-cffi	"Foreign Function Interface for Python 3 calling C code - runtime Convenient and reliable way of calling C code from Python 3. . The aim of this project is to provide a convenient and reliable way of calling C code from Python. It keeps Python logic in Python and minimises the C required. It is able to work at either the C API or ABI level unlike most other approaches that only support the ABI level. . This package contains the runtime support for pre-built cffi modules."	Unknown			
python-pyroute2	pyroute2	"Python Netlink library Pyroute2 is a pure Python netlink and Linux network configuration library. It requires only Python stdlib no 3rd party libraries. Later it can change but the deps tree will remain as simple as it is possible. . This is the Python 2 compatible package."	GPL-2.0+ GPL-2.0			

Package name	Source	Package Description	Package License	Encryption types	Encryption Max Key Length	Comment
swift-account	swift	"distributed virtual object store - account server OpenStack Object Storage (code-named Swift) creates redundant scalable object storage using clusters of standardized servers to store petabytes of accessible data. It is not a file system or real-time data storage system but rather a long-term storage system for a more permanent type of static data that can be retrieved leveraged and then updated if necessary. Primary examples of data that best fit this type of storage model are virtual machine images photo storage email storage and backup archiving. Having no central "brain" or master point of control provides greater scalability redundancy and permanence. . Objects are written to multiple hardware devices in the data center with the OpenStack software responsible for ensuring data replication and integrity across the cluster. Storage clusters can scale horizontally by adding new nodes. Should a node fail OpenStack works to replicate its content from other active nodes. Because OpenStack uses software logic to ensure data replication and distribution across different devices inexpensive commodity hard drives and servers can be used in lieu of more expensive equipment. . This package provides the swift account server."	Apache-2.0			
libnl-nf-3-200	libnl3	"library for dealing with netlink sockets - netfilter interface This is a library for applications dealing with netlink sockets. The library provides an interface for raw netlink messaging and various netlink family specific interfaces. . API to netlink based netfilter configuration and monitoring interfaces."	GPL-2.0 LGPL-2.1			
openvswitch-common	openvswitch	"Open vSwitch common components Open vSwitch is a production quality multilayer software-based Ethernet virtual switch. It is designed to enable massive network automation through programmatic extension while still supporting standard management interfaces and protocols (e.g. NetFlow IPFIX sFlow SPAN RSPAN CLI LACP 802.1ag). In addition it is designed to support distribution across multiple physical servers similar to VMware's vNetwork distributed vswitch or Cisco's Nexus 1000V. . openvswitch-common provides components required by both openvswitch-switch."	GPL-2.0 LGPL-2.1 BSD-2-Clause Apache-2.0	lex	128	
openvswitch-common	openvswitch	"Open vSwitch common components Open vSwitch is a production quality multilayer software-based Ethernet virtual switch. It is designed to enable massive network automation through programmatic extension while still supporting standard management interfaces and protocols (e.g. NetFlow IPFIX sFlow SPAN RSPAN CLI LACP 802.1ag). In addition it is designed to support distribution across multiple physical servers similar to VMware's vNetwork distributed vswitch or Cisco's Nexus 1000V. . openvswitch-common provides components required by both openvswitch-switch."	GPL-2.0 LGPL-2.1 BSD-2-Clause Apache-2.0	crypt	65	

Package name	Source	Package Description	Package License	Encryption types	Encryption Max Key Length	Comment
openvswitch-common	openvswitch	"Open vSwitch common components Open vSwitch is a production quality multilayer software-based Ethernet virtual switch. It is designed to enable massive network automation through programmatic extension while still supporting standard management interfaces and protocols (e.g. NetFlow IPFIX sFlow SPAN RSPAN CLI LACP 802.1ag). In addition it is designed to support distribution across multiple physical servers similar to VMware's vNetwork distributed vswitch or Cisco's Nexus 1000V. . openvswitch-common provides components required by both openvswitch-switch."	GPL-2.0 LGPL-2.1 BSD-2-Clause Apache-2.0	aes	256	
openvswitch-common	openvswitch	"Open vSwitch common components Open vSwitch is a production quality multilayer software-based Ethernet virtual switch. It is designed to enable massive network automation through programmatic extension while still supporting standard management interfaces and protocols (e.g. NetFlow IPFIX sFlow SPAN RSPAN CLI LACP 802.1ag). In addition it is designed to support distribution across multiple physical servers similar to VMware's vNetwork distributed vswitch or Cisco's Nexus 1000V. . openvswitch-common provides components required by both openvswitch-switch."	GPL-2.0 LGPL-2.1 BSD-2-Clause Apache-2.0	sha	512	
openvswitch-common	openvswitch	"Open vSwitch common components Open vSwitch is a production quality multilayer software-based Ethernet virtual switch. It is designed to enable massive network automation through programmatic extension while still supporting standard management interfaces and protocols (e.g. NetFlow IPFIX sFlow SPAN RSPAN CLI LACP 802.1ag). In addition it is designed to support distribution across multiple physical servers similar to VMware's vNetwork distributed vswitch or Cisco's Nexus 1000V. . openvswitch-common provides components required by both openvswitch-switch."	GPL-2.0 LGPL-2.1 BSD-2-Clause Apache-2.0	md5	128	
python-cephfs	ceph	"Python libraries for the Ceph libcephfs library Ceph is a massively scalable open-source distributed storage system that runs on commodity hardware and delivers object block and file system storage. . This package contains Python libraries for interacting with Ceph's CephFS file system client library."	GPL-2.0+ GPL-2.0 GPL-3.0 LGPL-2.0 LGPL-2.1 BSD-2-Clause BSD-3-Clause Public Domain Apache-2.0	crush	unlimited	cephhash
python-cephfs	ceph	"Python libraries for the Ceph libcephfs library Ceph is a massively scalable open-source distributed storage system that runs on commodity hardware and delivers object block and file system storage. . This package contains Python libraries for interacting with Ceph's CephFS file system client library."	GPL-2.0+ GPL-2.0 GPL-3.0 LGPL-2.0 LGPL-2.1 BSD-2-Clause BSD-3-Clause Public Domain Apache-2.0	sha	512	
python-cephfs	ceph	"Python libraries for the Ceph libcephfs library Ceph is a massively scalable open-source distributed storage system that runs on commodity hardware and delivers object block and file system storage. . This package contains Python libraries for interacting with Ceph's CephFS file system client library."	GPL-2.0+ GPL-2.0 GPL-3.0 LGPL-2.0 LGPL-2.1 BSD-2-Clause BSD-3-Clause Public Domain Apache-2.0	aes	256	
python-cephfs	ceph	"Python libraries for the Ceph libcephfs library Ceph is a massively scalable open-source distributed storage system that runs on commodity hardware and delivers object block and file system storage. . This package contains Python libraries for interacting with Ceph's CephFS file system client library."	GPL-2.0+ GPL-2.0 GPL-3.0 LGPL-2.0 LGPL-2.1 BSD-2-Clause BSD-3-Clause Public Domain Apache-2.0	abacus	0	

Package name	Source	Package Description	Package License	Encryption types	Encryption Max Key Length	Comment
python-cephfs	ceph	"Python libraries for the Ceph libcephfs library Ceph is a massively scalable open-source distributed storage system that runs on commodity hardware and delivers object block and file system storage. . This package contains Python libraries for interacting with Ceph's CephFS file system client library."	GPL-2.0+ GPL-2.0 GPL-3.0 LGPL-2.0 LGPL-2.1 BSD-2-Clause BSD-3-Clause Public Domain Apache-2.0	md5	128	
python3-senlinclient	python-senlinclient	"OpenStack Clustering API Client Library - Python 3.x This is a client library for Senlin built on the Senlin clustering API. It provides a Python API (the senlinclient module) and a command-line tool (senlin). . This package contains the Python 3.x module."	Apache-2.0			
python-oslo-i18n	python-oslo.i18n	"transitional dummy package for python-oslo-i18n This transitional package to python-oslo.i18n is safe to remove."	Apache-2.0			
python3-oslo-i18n	python-oslo.i18n	"transitional dummy package for python3-oslo-i18n This transitional package to python3-oslo.i18n is safe to remove."	Apache-2.0			
python-smmap	python-smmap	"pure Python implementation of a sliding window memory map manager Smmap wraps an interface around mmap and tracks the mapped files as well as the amount of clients who use it. If the system runs out of resources or if a memory limit is reached it will automatically unload unused maps to allow continued operation. . This package for Python 2."	BSD-3-Clause			
python3-paramiko	paramiko	"Make ssh v2 connections with Python (Python 3) This is a library for making SSH2 connections (client or server). Emphasis is on using SSH2 as an alternative to SSL for making secure connections between Python scripts. All major ciphers and hash methods are supported. SFTP client and server mode are both supported too. . This is the Python 3 version of the package."	GPL-2.0 LGPL-2.1	rsa	unlimited	typically <=8192
golang-golang-x-net-dev	golang-golang-x-net-dev	networking libraries (golang.org/x/net) not included in the main distribution: . - context: Package context defines the Context type which carries deadlines cancellation signals and other request-scoped values across API boundaries and between processes. - dict: Package dict implements the Dictionary Server Protocol as defined in RFC 2229. - html: Package html implements an HTML5-compliant tokenizer and parser. - html/atom: Package atom provides integer codes (also known as atoms) for a fixed set of frequently occurring HTML strings: tag names and attribute keys such as "p" and "id". - html/charset: Package charset provides common text encodings for HTML documents. - icmp: Package icmp provides basic functions for the manipulation of messages used in the Internet Control Message Protocols ICMPv4 and ICMPv6. - idna: Package idna implements IDNA2008 (Internationalized Domain Names for Applications) defined in RFC 5890 RFC 5891 RFC 5892 RFC 5893 and RFC 5894. - internal/iana: Package iana provides protocol number resources managed by the Internet Assigned Numbers Authority (IANA). - internal/nettest: Package nettest provides utilities for IP testing. - ipv4: Package ipv4 implements IP-level socket options for the Internet Protocol version 4. - ipv6: Package ipv6 implements IP-level socket options for the Internet Protocol version 6. - netutil: Package netutil provides network utility functions complementing the more common ones in the net package. - proxy: Package proxy provides support for a variety of protocols to proxy network data. - publicsuffix: Package publicsuffix provides a public suffix list based on data from http://publicsuffix.org/. - webdav: Package webdav. - websocket: Package websocket implements a client and server for the WebSocket protocol as specified in RFC 6455. . This repository was previously available at	BSD-2-Clause BSD-3-Clause			

Package name	Source	Package Description	Package License	Encryption types	Encryption Max Key Length	Comment
python-semantic-version-doc	python-semantic-version	"implementing the SemVer scheme - doc This small Python library provides a few tools to handle SemVer in Python. It follows strictly the 2.0.0 version of the SemVer scheme. semantic_version can also support versions which wouldn't match the semantic version scheme by converting a version such as 0.1.2.3.4 into 0.1.2+3.4. . This package contains the documentation."	BSD-2-Clause			
libnl-genl-3-dev	libnl3	"development library and headers for libnl-genl-3 This is a library for applications dealing with netlink sockets. The library provides an interface for raw netlink messaging and various netlink family specific interfaces. . This package contains the files that are needed to build applications using libnl-genl-3."	GPL-2.0 LGPL-2.1			
python3-pyasn1-modules	python-pyasn1-modules	"Collection of protocols modules written in ASN.1 language (Python 3) This is a small but growing collection of ASN.1 data structures expressed in Python terms using pyasn1 data model. . It's thought to be useful to protocol developers and testers. . Please note that pyasn1_modules is neither part of the pyasn1 package nor related to it."	BSD-2-Clause BSD-3-Clause			
python-pager	python-pager	"terminal/console pager module in pure Python - Python 2.7 Pager is a Python module that pages output to the screen reads keys and console dimensions without executing external utils. It was meant to be included in the Python standard library. . This package contains the Python 2.7 module."	MIT Public Domain			
python-sendfile	pysendfile	"Python interface to sendfile(2) Python library which provides a "zero-copy" way of copying data from one file descriptor to another (a socket). The phrase "zero-copy" refers to the fact that all of the copying of data between the two descriptors is done entirely by the kernel with no copying of data into userspace buffers. This is particularly useful when sending a file over a socket (e.g. FTP)."	MIT			
python3-virtualenv	python-virtualenv	"Python virtual environment creator The virtualenv utility creates virtual Python instances each invocable with its own Python executable. Each instance can have different sets of modules installable via easy_install. Virtual Python instances can also be created without root access. . This is the Python 3 version of the library."	Unknown			
libvirt-bin	libvirt	"programs for the libvirt library Libvirt is a C toolkit to interact with the virtualization capabilities of recent versions of Linux (and other OSes). The library aims at providing a long term stable C API for different virtualization mechanisms. It currently supports QEMU KVM XEN OpenVZ LXC and VirtualBox. . This is a transitional package. You can safely remove it."	GPL-2.0 GPL-3.0 LGPL-3.0 MIT	sha	512	
libvirt-bin	libvirt	"programs for the libvirt library Libvirt is a C toolkit to interact with the virtualization capabilities of recent versions of Linux (and other OSes). The library aims at providing a long term stable C API for different virtualization mechanisms. It currently supports QEMU KVM XEN OpenVZ LXC and VirtualBox. . This is a transitional package. You can safely remove it."	GPL-2.0 GPL-3.0 LGPL-3.0 MIT	md5	128	
python3-markupsafe	markupsafe	"HTML/XHTML/XML string library for Python 3 MarkupSafe is a Python library implementing a unicode subclass that is aware of HTML escaping rules. It can be used to implement automatic string escaping. . This package contains the Python 3 version."	Unknown			
sbt-launch	sbt-launch	"sbt is a simple build tool for Scala projects that aims to do the basics well. It requires Java 1.5 or later."	Unknown			

Package name	Source	Package Description	Package License	Encryption types	Encryption Max Key Length	Comment
python-kombu	kombu	"AMQP Messaging Framework for Python The aim of Kombu is to make messaging in Python as easy as possible by providing an idiomatic high-level interface for the AMQP protocol. It is meant to replace the carrot library by providing a compatibility layer. . Features: * Allows application authors to support several message server solutions by using pluggable transports. * Supports automatic encoding serialization and compression of message payloads. * The ability to ensure that an operation is performed by gracefully handling connection and channel errors."	Unknown			
python3-websocket	websocket-client	"WebSocket client library for Python websocket-client provides a low-level synchronous API providing WebSocket client functionality to Python programs. It conforms to the WebSocket specification as standardized by the IETF in RFC 6455. . WebSocket is a protocol providing full-duplex communication channels over TCP mostly used in Web browsers. . This is the Python 3 version."	LGPL-2.1			
python-ironic	ironic	"bare metal hypervisor API for OpenStack - Python lib Ironic provision bare metal machines instead of virtual machines. It is a fork of the Nova Baremetal driver. It is best thought of as a bare metal hypervisor API and a set of plugins which interact with the bare metal hypervisors. By default it will use PXE and IPMI in concert to provision and turn on/off machines but Ironic also supports vendor-specific plugins which may implement additional functionality. . This package provides the Ironic Python library."	Apache-2.0			
nova-api	nova	"OpenStack Compute - compute API frontend OpenStack is a reliable cloud infrastructure. Its mission is to produce the ubiquitous cloud computing platform that will meet the needs of public and private cloud providers regardless of size by being simple to implement and massively scalable. . OpenStack Compute codenamed Nova is a cloud computing fabric controller designed to be modular and easy to extend and adapt. In addition to its "native" OpenStack API it also supports the Amazon EC2 API and it supports many different database backends (including SQLite MySQL and PostgreSQL) hypervisors (KVM Xen) and user directory systems (LDAP SQL). . This package provides the API frontend."	Apache-2.0			
python-autobahn	python-autobahn	"WebSocket client and server library WAMP framework - Python 2.x Autobahn Python is a networking library that is part of the Autobahn project and provides implementations of: * The WebSocket Protocol * The Web Application Messaging Protocol (WAMP) for Twisted and asyncio on Python 2 & 3 and for writing servers and clients. . WebSocket allows bidirectional real-time messaging on the Web and WAMP adds asynchronous Remote Procedure Calls and Publish & Subscribe on top of WebSocket. . This package contains the Python 2.x module."	Apache-2.0			
python-lz4	python-lz4	"Python interface to the lz4 compression library This package provides bindings for the liblz4 compression library. . LZ4 is a very fast lossless compression algorithm providing compression speed at 400 MB/s per core scalable with multi-cores CPU. It also features an extremely fast decoder with speed in multiple GB/s per core typically reaching RAM speed limits on multi-core systems."	GPL-2.0+ GPL-2.0 BSD-3-Clause			



Package name	Source	Package Description	Package License	Encryption types	Encryption Max Key Length	Comment
libnl-route-3-200	libnl3	"library for dealing with netlink sockets - route interface This is a library for applications dealing with netlink sockets. The library provides an interface for raw netlink messaging and various netlink family specific interfaces. . API to the configuration interfaces of the NETLINK_ROUTE family."	GPL-2.0 LGPL-2.1			
python3-bashate	python-bashate	"bash script style guide checker - Python 3.x This program attempts to be an automated style checker for bash scripts to fill the same part of code review that pep8 does in most OpenStack projects. It started from humble beginnings in the DevStack project and will continue to evolve over time. . This package contains the Python 3.x module and command line utility."	Apache-2.0			
golang-glog-dev	golang-glog	"Leveled execution logs for Go This is an efficient pure Go implementation of leveled logs in the manner of the open source C++ package <a href="http://code.google.com/p/google-glog">http://code.google.com/p/google-glog</a> "	Apache-2.0			
python-pygments-doc	pygments	"documentation for the Pygments Pygments is syntax highlighting package. . This package contains the documentation for Pygments in HTML and reStructuredText format."	BSD-2-Clause Apache-2.0			
python3-xstatic-magic-search	python-xstatic-magic-search	"Magic-Search XStatic support - Python 3.x XStatic is a Python web development tool for handling required static data files from external projects such as CSS images and JavaScript. It provides a lightweight infrastructure to manage them via Python modules that your app can depend on in a portable virtualenv-friendly way instead of using embedded copies. . MagicSearch is an AngularJS directive that provides a UI for both faceted filtering and as-you-type filtering. It is intended for filtering tables such as an AngularJS smart-table but it can be used in any situation where you can provide it with facets/options and consume its events. . MagicSearch was initially developed by David Kavanagh for Eucalyptus. . This package contains the Python 3.x module."	Apache-2.0			
ceph-test	ceph	"Ceph test and benchmarking tools Ceph is a distributed storage system designed to provide excellent performance reliability and scalability. . This package contains tools for testing and benchmarking Ceph."	GPL-2.0+ GPL-2.0 GPL-3.0 LGPL-2.0 LGPL-2.1 BSD-2-Clause BSD-3-Clause Public Domain Apache-2.0	crush	unlimited	cephhash
ceph-test	ceph	"Ceph test and benchmarking tools Ceph is a distributed storage system designed to provide excellent performance reliability and scalability. . This package contains tools for testing and benchmarking Ceph."	GPL-2.0+ GPL-2.0 GPL-3.0 LGPL-2.0 LGPL-2.1 BSD-2-Clause BSD-3-Clause Public Domain Apache-2.0	sha	512	
ceph-test	ceph	"Ceph test and benchmarking tools Ceph is a distributed storage system designed to provide excellent performance reliability and scalability. . This package contains tools for testing and benchmarking Ceph."	GPL-2.0+ GPL-2.0 GPL-3.0 LGPL-2.0 LGPL-2.1 BSD-2-Clause BSD-3-Clause Public Domain Apache-2.0	aes	256	
ceph-test	ceph	"Ceph test and benchmarking tools Ceph is a distributed storage system designed to provide excellent performance reliability and scalability. . This package contains tools for testing and benchmarking Ceph."	GPL-2.0+ GPL-2.0 GPL-3.0 LGPL-2.0 LGPL-2.1 BSD-2-Clause BSD-3-Clause Public Domain Apache-2.0	abacus	0	
ceph-test	ceph	"Ceph test and benchmarking tools Ceph is a distributed storage system designed to provide excellent performance reliability and scalability. . This package contains tools for testing and benchmarking Ceph."	GPL-2.0+ GPL-2.0 GPL-3.0 LGPL-2.0 LGPL-2.1 BSD-2-Clause BSD-3-Clause Public Domain Apache-2.0	md5	128	

Package name	Source	Package Description	Package License	Encryption types	Encryption Max Key Length	Comment
python3-retrying	python-retrying	"simplifies the task of adding retry behavior - Python 3.x Retrying is an Apache 2.0 licensed general-purpose retrying library written in Python to simplify the task of adding retry behavior to just about anything. . Features: * Generic Decorator API * Specify stop condition (limit by number of attempts) * Specify wait condition (exponential backoff sleeping between attempts) * Customize retrying on Exceptions * Customize retrying on expected returned result . This package contains the Python 3.x module."	Apache-2.0			
python3-pager	python-pager	"terminal/console pager module in pure Python - Python 3.x Pager is a Python module that pages output to the screen reads keys and console dimensions without executing external utils. It was meant to be included in the Python standard library. . This package contains the Python 3.x module."	MIT Public Domain			
python3-wsgi-intercept	python-wsgi-intercept	"installs a WSGI application in place of a real URI for testing (python3) Testing a WSGI application normally involves starting a server at a local host and port then pointing your test code to that address. Instead this library lets you intercept calls to any specific host/port combination and redirect them into a WSGI application importable by your test program. Thus you can avoid spawning multiple processes or threads to test your Web app. . wsgi_intercept works by replacing httplib.HTTPConnection with a subclass wsgi_intercept.WSGI_HTTPConnection. This class then redirects specific server/port combinations into a WSGI application by emulating a socket. If no intercept is registered for the host and port requested those requests are passed on to the standard handler. . This package provides a python3 module."	Unknown			
python3-barbicanclient	python-barbicanclient	"OpenStack Key Management API client - Python 3.x This is a client for the Barbican Key Management API. This package includes a Python library for accessing the API (the barbicanclient module) and a command-line script (barbican). . This package contains the Python 3.x module."	Apache-2.0			
python-pygments	pygments	"syntax highlighting package written in Python Pygments aims to be a generic syntax highlighter for general use in all kinds of software such as forum systems wikis or other applications that need to prettify source code. . Highlights are: * a wide range of common languages and markup formats is supported * special attention is paid to details increasing quality by a fair amount * support for new languages and formats are added easily * a number of output formats presently HTML LaTeX and ANSI sequences * it is usable as a command-line tool and as a library"	BSD-2-Clause Apache-2.0			
python-kajiki-doc	python-kajiki	"Really fast well-formed xml templates - doc Are you tired of the slow performance of Genshi? But you still long for the assurance that your output is well-formed that you miss from all those other templating engines? Do you wish you had Jinja's blocks with Genshi's syntax? Then look no further Kajiki is for you! Kajiki quickly compiles Genshi-like syntax to *real Python bytecode* that renders with blazing-fast speed! Don't delay! Pick up your copy of Kajiki today! . This package provides the documentation."	GPL-3.0 MIT			

Package name	Source	Package Description	Package License	Encryption types	Encryption Max Key Length	Comment
mysql-source-5.6	mysql-wsrep-5.6	"MySQL source MySQL is a fast stable and true multi-user multi-threaded SQL database server. SQL (Structured Query Language) is the most popular database query language in the world. The main goals of MySQL are speed robustness and ease of use. . This package includes the MySQL source code as configured before building - but after the arch specific configuration. This is currently required for building plugins."	GPL-2.0+ GPL-2.0 LGPL-2.0 BSD-3-Clause BSD MIT Public Domain ISC			
<a href="#">libjs-term.js</a>	<a href="#">libjs-term.js</a>	"full xterm clone written in javascript Term.js is a full xterm clone written in javascript. It is a fork from the original work of Fabrice Bellard's javascript vt100 for jslinux (with the author's permission. The original design remains. The terminal itself has been extended to include xterm CSI codes among other features."	Unknown			
python-migrate	migrate	"Database schema migration for SQLAlchemy - Python 2.7 Inspired by Ruby on Rails' migrations migrate provides a way to deal with database schema changes in SQLAlchemy projects. . SQLAlchemy-migrate is build on top of SQLAlchemy and provides a changeset and a versioning API for database schemas as well as a script utilizing these APIs. The database change sets are managed in a file based repository allowing upgrades and downgrades of database schema versions. The change sets may consist of Python code facilitating the changeset API or SQL scripts. . SQLAlchemy-migrate has support for MySQL PostgreSQL SQLite and Oracle databases. The support for Oracle is not as well tested as the support for the other database systems. . This package provides the Python 2.7 module."	GPL-2.0 MIT Apache-2.0			
python-sphinxcontrib.issue tracker	sphinx-issue tracker	"Sphinx integration with different issue trackers This extension for Sphinx 1.0 parses textual issue references like #10 looks up the issue in the configured issue tracker and includes a link to the issue. . Currently the following issue trackers are supported: * GitHub * BitBucket * Launchpad * Google Code * Debian BTS * JIRA . Furthermore this extension provides a simple API to add other issue trackers."	BSD			
python-os-win-doc	python-os-win	"Windows / Hyper-V library for OpenStack projects - doc Os-win is a library that contains Windows / Hyper-V code commonly used in the OpenStack projects: nova cinder networking-hyperv. The library can be used in any other OpenStack projects where it is needed. . This package contains the documentation."	Apache-2.0			
python3-msgpack	msgpack-python	"Python 3 implementation of MessagePack format MessagePack is a binary-based efficient object serialization format. It enables the exchange of structured objects between many languages like JSON. But unlike JSON it is very fast and small. . This package contains a Python 3 extension module implementing the MessagePack format."	GPL-2.0+ GPL-2.0 Apache-2.0			
ceph-fuse-dbg	ceph	"debugging symbols for ceph-fuse Ceph is a distributed network file system designed to provide excellent performance reliability and scalability. This is a FUSE-based client that allows one to mount a Ceph file system without root privileges. . This package contains the debugging symbols for ceph-fuse."	GPL-2.0+ GPL-2.0 GPL-3.0 LGPL-2.0 LGPL-2.1 BSD-2-Clause BSD-3-Clause Public Domain Apache-2.0	crush	unlimited	cephhash
ceph-fuse-dbg	ceph	"debugging symbols for ceph-fuse Ceph is a distributed network file system designed to provide excellent performance reliability and scalability. This is a FUSE-based client that allows one to mount a Ceph file system without root privileges. . This package contains the debugging symbols for ceph-fuse."	GPL-2.0+ GPL-2.0 GPL-3.0 LGPL-2.0 LGPL-2.1 BSD-2-Clause BSD-3-Clause Public Domain Apache-2.0	sha	512	

Package name	Source	Package Description	Package License	Encryption types	Encryption Max Key Length	Comment
ceph-fuse-dbg	ceph	"debugging symbols for ceph-fuse Ceph is a distributed network file system designed to provide excellent performance reliability and scalability. This is a FUSE-based client that allows one to mount a Ceph file system without root privileges. . This package contains the debugging symbols for ceph-fuse."	GPL-2.0+ GPL-2.0 GPL-3.0 LGPL-2.0 LGPL-2.1 BSD-2-Clause BSD-3-Clause Public Domain Apache-2.0	aes	256	
ceph-fuse-dbg	ceph	"debugging symbols for ceph-fuse Ceph is a distributed network file system designed to provide excellent performance reliability and scalability. This is a FUSE-based client that allows one to mount a Ceph file system without root privileges. . This package contains the debugging symbols for ceph-fuse."	GPL-2.0+ GPL-2.0 GPL-3.0 LGPL-2.0 LGPL-2.1 BSD-2-Clause BSD-3-Clause Public Domain Apache-2.0	abacus	0	
ceph-fuse-dbg	ceph	"debugging symbols for ceph-fuse Ceph is a distributed network file system designed to provide excellent performance reliability and scalability. This is a FUSE-based client that allows one to mount a Ceph file system without root privileges. . This package contains the debugging symbols for ceph-fuse."	GPL-2.0+ GPL-2.0 GPL-3.0 LGPL-2.0 LGPL-2.1 BSD-2-Clause BSD-3-Clause Public Domain Apache-2.0	md5	128	
python3-django-openstack-auth	python-django-openstack-auth	"Django authentication backend for Openstack - Python 3.x Django authentication backend for use with the OpenStack Keystone Identity backend. This Python module is used by Horizon (the Openstack Dashport web GUI) to auth against Keystone. . This package provides the Python 3.x module."	Apache-2.0			
python-oslo-middleware	python-oslo.middleware	"transitional dummy package for python-oslo-middleware This transitional package to python-oslo.middleware is safe to remove."	Apache-2.0			
python-ironicclient	python-ironicclient	"Client for OpenStack bare metal Service - Python 2.7 Ironic provision bare metal machines instead of virtual machines. It is a fork of the Nova Baremetal driver. It is best thought of as a bare metal hypervisor API and a set of plugins which interact with the bare metal hypervisors. By default it will use PXE and IPMI in concert to provision and turn on/off machines but Ironic also supports vendor-specific plugins which may implement additional functionality. . This is a client for the OpenStack Ironic API. There's a Python API (the "ironicclient" module) and a command-line script ("ironic"). . Installing this package gets you a shell command that you can use to interact with Ironic's API. . This package provides the Python 2.7 support."	Apache-2.0			
python-netifaces-dbg	netifaces	"portable network interface information - Python 2.x debug extension netifaces provides a (hopefully portable-ish) way for Python programmers to get access to a list of the network interfaces on the local machine and to obtain the addresses of those network interfaces. . This package contains debug symbols of python-netifaces."	unknown			
murano-api	murano	"cloud-ready application catalog - API server Murano Project introduces an application catalog which allows application developers and cloud administrators to publish various cloud-ready applications in a browsable categorised catalog which may be used by the cloud users (including the inexperienced ones) to pick-up the needed applications and services and composes the reliable environments out of them in a "push-the-button" manner. . This package contains the API server."	Apache-2.0			

Package name	Source	Package Description	Package License	Encryption types	Encryption Max Key Length	Comment
qemu-system-x86	qemu	"QEMU full system emulation binaries (x86) QEMU is a fast processor emulator: currently the package supports i386 and x86-64 emulation. By using dynamic translation it achieves reasonable speed while being easy to port on new host CPUs. . This package provides the full system emulation binaries to emulate the following x86 hardware: i386 x86_64. . In system emulation mode QEMU emulates a full system including a processor and various peripherals. It enables easier testing and debugging of system code. It can also be used to provide virtual hosting of several virtual machines on a single server. . On x86 host hardware this package also enables KVM kernel virtual machine usage on systems which supports it."	GPL-2.0 MIT	crypt	65	
qemu-system-x86	qemu	"QEMU full system emulation binaries (x86) QEMU is a fast processor emulator: currently the package supports i386 and x86-64 emulation. By using dynamic translation it achieves reasonable speed while being easy to port on new host CPUs. . This package provides the full system emulation binaries to emulate the following x86 hardware: i386 x86_64. . In system emulation mode QEMU emulates a full system including a processor and various peripherals. It enables easier testing and debugging of system code. It can also be used to provide virtual hosting of several virtual machines on a single server. . On x86 host hardware this package also enables KVM kernel virtual machine usage on systems which supports it."	GPL-2.0 MIT	aes	256	
qemu-system-x86	qemu	"QEMU full system emulation binaries (x86) QEMU is a fast processor emulator: currently the package supports i386 and x86-64 emulation. By using dynamic translation it achieves reasonable speed while being easy to port on new host CPUs. . This package provides the full system emulation binaries to emulate the following x86 hardware: i386 x86_64. . In system emulation mode QEMU emulates a full system including a processor and various peripherals. It enables easier testing and debugging of system code. It can also be used to provide virtual hosting of several virtual machines on a single server. . On x86 host hardware this package also enables KVM kernel virtual machine usage on systems which supports it."	GPL-2.0 MIT	des	56	
qemu-system-x86	qemu	"QEMU full system emulation binaries (x86) QEMU is a fast processor emulator: currently the package supports i386 and x86-64 emulation. By using dynamic translation it achieves reasonable speed while being easy to port on new host CPUs. . This package provides the full system emulation binaries to emulate the following x86 hardware: i386 x86_64. . In system emulation mode QEMU emulates a full system including a processor and various peripherals. It enables easier testing and debugging of system code. It can also be used to provide virtual hosting of several virtual machines on a single server. . On x86 host hardware this package also enables KVM kernel virtual machine usage on systems which supports it."	GPL-2.0 MIT	tripleDES	168	

Package name	Source	Package Description	Package License	Encryption types	Encryption Max Key Length	Comment
qemu-system-x86	qemu	"QEMU full system emulation binaries (x86) QEMU is a fast processor emulator: currently the package supports i386 and x86-64 emulation. By using dynamic translation it achieves reasonable speed while being easy to port on new host CPUs. . This package provides the full system emulation binaries to emulate the following x86 hardware: i386 x86_64. . In system emulation mode QEMU emulates a full system including a processor and various peripherals. It enables easier testing and debugging of system code. It can also be used to provide virtual hosting of several virtual machines on a single server. . On x86 host hardware this package also enables KVM kernel virtual machine usage on systems which supports it."	GPL-2.0 MIT	sha	512	
python-gdbm	python-stdlib-extensions	"GNU dbm database support for Python GNU dbm database module for Python. Install this if you want to create or read GNU dbm database files with Python."	Unknown			
erlang	erlang	"Concurrent real-time distributed functional language Open Source Erlang is a functional programming language designed at the Ericsson Computer Science Laboratory. . Some of Erlang main features are: * Clear declarative syntax and is largely free from side-effects; * Built-in support for real-time concurrent and distributed programming; * Designed for development of robust and continuously operated programs; * Dynamic code replacement at runtime. . The Erlang distribution also includes OTP (Open Telecom Platform) which provides a rich set of libraries and applications. . This package is a dummy package which will install Erlang/OTP runtime applications sources code examples and the Erlang editing mode for Emacs."	LGPL-2.1 Apache-2.0	aes	256	
erlang	erlang	"Concurrent real-time distributed functional language Open Source Erlang is a functional programming language designed at the Ericsson Computer Science Laboratory. . Some of Erlang main features are: * Clear declarative syntax and is largely free from side-effects; * Built-in support for real-time concurrent and distributed programming; * Designed for development of robust and continuously operated programs; * Dynamic code replacement at runtime. . The Erlang distribution also includes OTP (Open Telecom Platform) which provides a rich set of libraries and applications. . This package is a dummy package which will install Erlang/OTP runtime applications sources code examples and the Erlang editing mode for Emacs."	LGPL-2.1 Apache-2.0	diffiehellman	unlimited	
erlang	erlang	"Concurrent real-time distributed functional language Open Source Erlang is a functional programming language designed at the Ericsson Computer Science Laboratory. . Some of Erlang main features are: * Clear declarative syntax and is largely free from side-effects; * Built-in support for real-time concurrent and distributed programming; * Designed for development of robust and continuously operated programs; * Dynamic code replacement at runtime. . The Erlang distribution also includes OTP (Open Telecom Platform) which provides a rich set of libraries and applications. . This package is a dummy package which will install Erlang/OTP runtime applications sources code examples and the Erlang editing mode for Emacs."	LGPL-2.1 Apache-2.0	blowfish	448	

Package name	Source	Package Description	Package License	Encryption types	Encryption Max Key Length	Comment
erlang	erlang	"Concurrent real-time distributed functional language Open Source Erlang is a functional programming language designed at the Ericsson Computer Science Laboratory. . Some of Erlang main features are: * Clear declarative syntax and is largely free from side-effects; * Built-in support for real-time concurrent and distributed programming; * Designed for development of robust and continuously operated programs; * Dynamic code replacement at runtime. . The Erlang distribution also includes OTP (Open Telecom Platform) which provides a rich set of libraries and applications. . This package is a dummy package which will install Erlang/OTP runtime applications sources code examples and the Erlang editing mode for Emacs."	LGPL-2.1 Apache-2.0	sha	512	
erlang	erlang	"Concurrent real-time distributed functional language Open Source Erlang is a functional programming language designed at the Ericsson Computer Science Laboratory. . Some of Erlang main features are: * Clear declarative syntax and is largely free from side-effects; * Built-in support for real-time concurrent and distributed programming; * Designed for development of robust and continuously operated programs; * Dynamic code replacement at runtime. . The Erlang distribution also includes OTP (Open Telecom Platform) which provides a rich set of libraries and applications. . This package is a dummy package which will install Erlang/OTP runtime applications sources code examples and the Erlang editing mode for Emacs."	LGPL-2.1 Apache-2.0	hmac	160	
erlang	erlang	"Concurrent real-time distributed functional language Open Source Erlang is a functional programming language designed at the Ericsson Computer Science Laboratory. . Some of Erlang main features are: * Clear declarative syntax and is largely free from side-effects; * Built-in support for real-time concurrent and distributed programming; * Designed for development of robust and continuously operated programs; * Dynamic code replacement at runtime. . The Erlang distribution also includes OTP (Open Telecom Platform) which provides a rich set of libraries and applications. . This package is a dummy package which will install Erlang/OTP runtime applications sources code examples and the Erlang editing mode for Emacs."	LGPL-2.1 Apache-2.0	md5	128	
python-elasticsearch-doc	python-elasticsearch	"Python client for Elasticsearch (Documentation) Official low-level client for Elasticsearch. Its goal is to provide common ground for all Elasticsearch-related code in Python; because of this it tries to be opinion-free and very extendable. . The client's features include: * translating basic Python data types to and from json (datetimes are not decoded for performance reasons) * configurable automatic discovery of cluster nodes * persistent connections * load balancing (with pluggable selection strategy) across all available nodes * failed connection penalization (time based - failed connections won't be retried until a timeout is reached) * thread safety * pluggable architecture . This package contains the documentation."	Apache-2.0			
libjs-angular-gettext	libjs-angular-gettext	"gettext utilities for angular.js Angular-gettext let's you focus on developing your application. Just write everything in English and annotate which parts should be translated. The tools do the rest."	Unknown			

Package name	Source	Package Description	Package License	Encryption types	Encryption Max Key Length	Comment
libtotem-pg5	corosync	"Standards-based cluster framework Totem library Corosync is a project to implement a production quality "Revised BSD" licensed implementation of all core functionalities required by openais. The project implements cutting edge research on virtual synchrony to provide 100% correct operation in the face of failures or partitionable networks with excellent performance characteristics. . The Application Interface Specification is a software API and policies which are used to develop applications that maintain service during faults. . This package contains the Totem library which is a library included in Corosync."	Public Domain			
python-sphinxcontrib.httpdomain	sphinxcontrib-httpdomain	"Sphinx domain for HTTP APIs - Python 2.x This contrib extension sphinxcontrib.httpdomain provides a Sphinx domain for describing RESTful HTTP APIs. It generates RESTful HTTP API reference documentation from a Flask application's routing table similar to sphinx.ext.autodoc. . This package provides the Python 2.x module."	BSD-2-Clause			
nova-common	nova	"OpenStack Compute - common files OpenStack is a reliable cloud infrastructure. Its mission is to produce the ubiquitous cloud computing platform that will meet the needs of public and private cloud providers regardless of size by being simple to implement and massively scalable. . OpenStack Compute codenamed Nova is a cloud computing fabric controller designed to be modular and easy to extend and adapt. In addition to its "native" OpenStack API it also supports the Amazon EC2 API and it supports many different database backends (including SQLite MySQL and PostgreSQL) hypervisors (KVM Xen) and user directory systems (LDAP SQL). . This package contains elements that are needed by all parts of Nova."	Apache-2.0			
python-zaqar	zaqar	"OpenStack Queueing as a Service - Python libraries Zaqar is a multi-tenant cloud messaging service for web developers. It combines the ideas pioneered by Amazon's SQS product with additional semantics to support event broadcasting. . The service features a fully RESTful API which developers can use to send messages between various components of their SaaS and mobile applications by using a variety of communication patterns. Underlying this API is an efficient messaging engine designed with scalability and security in mind. . Other OpenStack components can integrate with Zaqar to surface events to end users and to communicate with guest agents that run in the "over-cloud" layer. Cloud operators can leverage Zaqar to provide equivalents of SQS and SNS to their customers. . By installing python-zaqarclient you get programmatic access to the Zaqar v1.0 API library. Plus it installs a plugin to python-openstackclient that allows you to perform simple queue operations. . This package contains the Python libraries that are part of Zaqar."	Apache-2.0			
python3-pymemcache	python-pymemcache	"comprehensive fast pure Python memcached client - Python 3.x Pymemcache is a comprehensive fast pure-Python memcached client. It supports the following features: * Complete implementation of the memcached text protocol. * Configurable timeouts for socket connect and send/recv calls. * Access to the "noreply" flag which can significantly increase the speed of writes. * Flexible simple approach to serialization and deserialization. * The (optional) ability to treat network and memcached errors as cache misses. . This package contains the Python 3.x module."	Apache-2.0			



Package name	Source	Package Description	Package License	Encryption types	Encryption Max Key Length	Comment
python-zmq-dbg	pyzmq	"Python bindings for 0MQ library - debugging files Python bindings for 0MQ. 0MQ is a small fast and free software library that gives you message-passing concurrency for applications in most common languages. . The 0MQ lightweight messaging kernel is a library which extends the standard socket interfaces with features traditionally provided by specialised messaging middleware products. 0MQ sockets provide an abstraction of asynchronous message queues multiple messaging patterns message filtering (subscriptions) seamless access to multiple transport protocols and more. . This package contains the extension built for the Python debug interpreter."	LGPL-2.1 BSD-3-Clause Apache-2.0			
docutils-doc	python-docutils	"text processing system for reStructuredText - documentation reStructuredText is an easy-to-read what-you-see-is-what-you-get plaintext markup syntax and parser system. It is useful for in-line program documentation (such as Python docstrings) for quickly creating simple web pages and for standalone documents. . The purpose of the Docutils project is to create a set of tools for processing reStructuredText documentation into useful formats such as HTML LaTeX ODT or Unix manpages. . This package includes documentation in HTML and (gzipped) reST formats."	GPL-3.0 LGPL-2.1 BSD-2-Clause BSD-3-Clause Public Domain			
mcollective-common	mcollective	"build server orchestration or parallel job execution systems The Marionette Collective aka. mcollective is a framework to build server orchestration or parallel job execution systems. . Common files for mcollective packages."	Apache-2.0			
python3-setuptools-scm	setuptools-scm	"blessed package to manage your versions by scm tags for Python 3 setuptools_scm handles managing your Python package versions in scm metadata. It also handles file finders for the suppertes scm's. . This package installs the library for Python 3."	Unknown			
python-oslo-log-doc	python-oslo.log	"transitional dummy package for python-oslo-log-doc This transitional package to python-oslo.log-doc is safe to remove."	Apache-2.0			
python3-oslo.vmware	python-oslo.vmware	"VMware library for OpenStack projects - Python 3.x This package is part of the Oslo project which aims at providing unified Python libraries across all of OpenStack. It provides a VMware library for OpenStack projects. . This package contains the Python 3.x module."	Apache-2.0			
python-heatclient	python-heatclient	"client library and CLI for OpenStack Heat - Python 2.7 Heat is a service to orchestrate multiple composite cloud applications using templates through both an OpenStack-native ReST API and a CloudFormation-compatible Query API. . This is a client for the OpenStack Heat API. There's a Python API (the heatclient module) and a command-line script (heat). Each implements 100% of the OpenStack Heat API. . This package provides the Python 2.7 module."	Apache-2.0			

Package name	Source	Package Description	Package License	Encryption types	Encryption Max Key Length	Comment
python3-xstatic-spin	python-xstatic-spin	"Spin.js XStatic support - Python 3.x XStatic is a packaging standard to package external (often 3rd party) static files as a Python package so they are easily usable on all operating systems with any package management system or even without one. . Many Python projects need to use some specific data files like javascript css java applets images etc. Sometimes these files belong to YOUR project (then you may want to package them separately but you could also just put them into your main package). But in many other cases those files are maintained by someone else (like jQuery javascript library or even much bigger js libraries or applications) and you definitely do not really want to merge them into your project. So you want to have static file packages but you don?t want to get lots of stuff you do not want. Thus stuff required by XStatic file packages (especially the main toplevel XStatic package) tries to obey to be a MINIMAL no-fat thing. XStatic doesn't "sell" any web framework or other stuff you don't want. Maybe there will be optional XStatic extensions for all sorts of stuff but they won't be required if you just want the files. . By having static files in packages it is also easier to build virtual envs support linux/bsd/... distribution package maintainers and even windows installs using the same mechanism. . This package provides spin.js support as a Python 3.x module."	Apache-2.0			
libcfg6	corosync	"Standards-based cluster framework Cfg library Corosync is a project to implement a production quality "Revised BSD" licensed implementation of all core functionalities required by openais. The project implements cutting edge research on virtual synchrony to provide 100% correct operation in the face of failures or partitionable networks with excellent performance characteristics. . The Application Interface Specification is a software API and policies which are used to develop applications that maintain service during faults. . This package contains the Cfg library which is a library included in Corosync."	Public Domain			
openvswitch-dbg	openvswitch	"Debug symbols for Open vSwitch packages Open vSwitch is a production quality multilayer software-based Ethernet virtual switch. It is designed to enable massive network automation through programmatic extension while still supporting standard management interfaces and protocols (e.g. NetFlow IPFIX sFlow SPAN RSPAN CLI LACP 802.1ag). In addition it is designed to support distribution across multiple physical servers similar to VMware's vNetwork distributed vswitch or Cisco's Nexus 1000V. . This package contains the debug symbols for all the other openvswitch-* packages. Install it to debug one of them or to examine a core dump produced by one of them."	GPL-2.0 LGPL-2.1 BSD-2-Clause Apache-2.0	lex	128	
openvswitch-dbg	openvswitch	"Debug symbols for Open vSwitch packages Open vSwitch is a production quality multilayer software-based Ethernet virtual switch. It is designed to enable massive network automation through programmatic extension while still supporting standard management interfaces and protocols (e.g. NetFlow IPFIX sFlow SPAN RSPAN CLI LACP 802.1ag). In addition it is designed to support distribution across multiple physical servers similar to VMware's vNetwork distributed vswitch or Cisco's Nexus 1000V. . This package contains the debug symbols for all the other openvswitch-* packages. Install it to debug one of them or to examine a core dump produced by one of them."	GPL-2.0 LGPL-2.1 BSD-2-Clause Apache-2.0	crypt	65	

Package name	Source	Package Description	Package License	Encryption types	Encryption Max Key Length	Comment
openvswitch-dbg	openvswitch	"Debug symbols for Open vSwitch packages Open vSwitch is a production quality multilayer software-based Ethernet virtual switch. It is designed to enable massive network automation through programmatic extension while still supporting standard management interfaces and protocols (e.g. NetFlow IPFIX sFlow SPAN RSPAN CLI LACP 802.1ag). In addition it is designed to support distribution across multiple physical servers similar to VMware's vNetwork distributed vswitch or Cisco's Nexus 1000V. . This package contains the debug symbols for all the other openvswitch-* packages. Install it to debug one of them or to examine a core dump produced by one of them."	GPL-2.0 LGPL-2.1 BSD-2-Clause Apache-2.0	aes	256	
openvswitch-dbg	openvswitch	"Debug symbols for Open vSwitch packages Open vSwitch is a production quality multilayer software-based Ethernet virtual switch. It is designed to enable massive network automation through programmatic extension while still supporting standard management interfaces and protocols (e.g. NetFlow IPFIX sFlow SPAN RSPAN CLI LACP 802.1ag). In addition it is designed to support distribution across multiple physical servers similar to VMware's vNetwork distributed vswitch or Cisco's Nexus 1000V. . This package contains the debug symbols for all the other openvswitch-* packages. Install it to debug one of them or to examine a core dump produced by one of them."	GPL-2.0 LGPL-2.1 BSD-2-Clause Apache-2.0	sha	512	
openvswitch-dbg	openvswitch	"Debug symbols for Open vSwitch packages Open vSwitch is a production quality multilayer software-based Ethernet virtual switch. It is designed to enable massive network automation through programmatic extension while still supporting standard management interfaces and protocols (e.g. NetFlow IPFIX sFlow SPAN RSPAN CLI LACP 802.1ag). In addition it is designed to support distribution across multiple physical servers similar to VMware's vNetwork distributed vswitch or Cisco's Nexus 1000V. . This package contains the debug symbols for all the other openvswitch-* packages. Install it to debug one of them or to examine a core dump produced by one of them."	GPL-2.0 LGPL-2.1 BSD-2-Clause Apache-2.0	md5	128	
kolla-mesos	kolla-mesos	"Kolla-Mesos provides Mesos deployment of Kolla Docker containers to meet Kolla's mission. Kolla-Mesos is highly opinionated out of the box but allows for complete customization. This permits operators with minimal experience to deploy OpenStack quickly and as experience grows modify the OpenStack configuration to suit the operator's exact requirements. . This package provides most of the Kolla-mesos files (templates etc.)."	Apache-2.0			
nova-console	nova	"OpenStack Compute - console OpenStack is a reliable cloud infrastructure. Its mission is to produce the ubiquitous cloud computing platform that will meet the needs of public and private cloud providers regardless of size by being simple to implement and massively scalable. . OpenStack Compute codenamed Nova is a cloud computing fabric controller designed to be modular and easy to extend and adapt. In addition to its "native" OpenStack API it also supports the Amazon EC2 API and it supports many different database backends (including SQLite MySQL and PostgreSQL) hypervisors (KVM Xen) and user directory systems (LDAP SQL). . This package provides the console server. This enables the use of consoles with XVP and XenServer. It is a publicly reachable component which proxies access to VNCs running on compute nodes."	Apache-2.0			

Package name	Source	Package Description	Package License	Encryption types	Encryption Max Key Length	Comment
python-os-client-config	python-os-client-config	"OpenStack client configuration library - Python 2.x Os-client-config is a library for collecting client configuration for using an OpenStack cloud in a consistent and comprehensive manner. It will find cloud config for as few as 1 cloud and as many as you want to put in a config file. It will read environment variables and config files and it also contains some vendor specific default values so that you don't have to know extra info to use OpenStack . os-client-config honors all of the normal OS_* variables. It does not provide backwards compatibility to service-specific variables such as NOVA_USERNAME. . If you have environment variables and no config files os-client-config will produce a cloud config object named "openstack" containing your values from the environment. . This package contains the Python 2.x module."	Apache-2.0			
python-packaging	python-packaging	"core utilities for python packages These core utilities currently consist of: - Version Handling (PEP 440) - Dependency Specification (PEP 440)"	BSD-3-Clause Apache-2.0			
python-ddt	python-ddt	"Data-Driven/Decorated Tests - Python 2.x DDT (Data-Driven Tests) allows you to multiply one test case by running it with different test data and make it appear as multiple test cases. DDT consists of a class decorator ddt (for your TestCase subclass) and two method decorators (for your tests that want to be multiplied). . This package contains the Python 2.x module."	Unknown			
python-openssl-doc	pyopenssl	"Python wrapper around the OpenSSL library (documentation package) High-level wrapper around a subset of the OpenSSL library includes . * SSL.Connection objects wrapping the methods of Python's portable sockets * Callbacks written in Python * Extensive error-handling mechanism mirroring OpenSSL's error codes . A lot of the object methods do nothing more than calling a corresponding function in the OpenSSL library. . This package contains documentation for python-openssl."	Public Domain Apache-2.0			
python-cm-api	cm-api	"Cloudera Manager RESTful API Client. Cloudera Manager is the market-leading management platform for CDH. As the industry?s first end-to-end management application for Apache Hadoop Cloudera Manager sets the standard for enterprise deployment by delivering granular visibility into and control over every part of CDH ? empowering operators to improve cluster performance enhance quality of service increase compliance and reduce administrative costs."	Apache-2.0			
ceph-test-dbg	ceph	"debugging symbols for ceph-test Ceph is a distributed storage system designed to provide excellent performance reliability and scalability. . This package contains the debugging symbols for ceph-test."	GPL-2.0+ GPL-2.0 GPL-3.0 LGPL-2.0 LGPL-2.1 BSD-2-Clause BSD-3-Clause Public Domain Apache-2.0	crush	unlimited	cephhash
ceph-test-dbg	ceph	"debugging symbols for ceph-test Ceph is a distributed storage system designed to provide excellent performance reliability and scalability. . This package contains the debugging symbols for ceph-test."	GPL-2.0+ GPL-2.0 GPL-3.0 LGPL-2.0 LGPL-2.1 BSD-2-Clause BSD-3-Clause Public Domain Apache-2.0	sha	512	
ceph-test-dbg	ceph	"debugging symbols for ceph-test Ceph is a distributed storage system designed to provide excellent performance reliability and scalability. . This package contains the debugging symbols for ceph-test."	GPL-2.0+ GPL-2.0 GPL-3.0 LGPL-2.0 LGPL-2.1 BSD-2-Clause BSD-3-Clause Public Domain Apache-2.0	aes	256	
ceph-test-dbg	ceph	"debugging symbols for ceph-test Ceph is a distributed storage system designed to provide excellent performance reliability and scalability. . This package contains the debugging symbols for ceph-test."	GPL-2.0+ GPL-2.0 GPL-3.0 LGPL-2.0 LGPL-2.1 BSD-2-Clause BSD-3-Clause Public Domain Apache-2.0	abacus	0	

Package name	Source	Package Description	Package License	Encryption types	Encryption Max Key Length	Comment
ceph-test-dbg	ceph	"debugging symbols for ceph-test Ceph is a distributed storage system designed to provide excellent performance reliability and scalability. . This package contains the debugging symbols for ceph-test."	GPL-2.0+ GPL-2.0 GPL-3.0 LGPL-2.0 LGPL-2.1 BSD-2-Clause BSD-3-Clause Public Domain Apache-2.0	md5	128	
python-packetary	fuel-mirror	"Library allows to build and clone deb and rpm repos Provides object model and API for dealing with deb and rpm repositories. One can use this framework to implement operations like building repository from a set of packages clone repository find package dependencies mix repositories pull out a subset of packages into a separate repository etc."	GPL-2.0 Apache-2.0			
python-pymemcache	python-pymemcache	"comprehensive fast pure Python memcached client - Python 2.x Pymemcache is a comprehensive fast pure-Python memcached client. It supports the following features: * Complete implementation of the memcached text protocol. * Configurable timeouts for socket connect and send/recv calls. * Access to the "noreply" flag which can significantly increase the speed of writes. * Flexible simple approach to serialization and deserialization. * The (optional) ability to treat network and memcached errors as cache misses. . This package contains the Python 2.x module."	Apache-2.0			
python3-oslo.cache	python-oslo.cache	"cache storage for Openstack projects - Python 3.x oslo.cache aims to provide a generic caching mechanism for OpenStack projects by wrapping the dogpile.cache library. The dogpile.cache library provides support memoization key value storage and interfaces to common caching backends such as Memcached. . This package contains the Python 3.x module."	Apache-2.0			
python-dogpile.cache	python-dogpile.cache	"caching front-end based on the Dogpile lock - Python 2.x A caching API built around the concept of a "dogpile lock" which allows continued access to an expiring data value while a single thread generates a new value. . dogpile.cache builds on the dogpile.core locking system (see <a href="http://pypi.python.org/pypi/dogpile.core">http://pypi.python.org/pypi/dogpile.core</a> ) which implements the idea of "allow one creator to write while others read" in the abstract. Overall dogpile.cache is intended as a replacement to the Beaker (see <a href="http://beaker.groovie.org">http://beaker.groovie.org</a> ) caching system the internals of which are written by the same author. All the ideas of Beaker which "work" are re-implemented in dogpile.cache in a more efficient and succinct manner and all the cruft (Beaker's internals were first written in 2005) relegated to the trash heap. . This package provides the Python 2.x module."	BSD-3-Clause			
python3-trollius	python-trollius	"port of the Tulip project on Python 2.7 - Python 3.x Trollius is a portage of the Tulip project (asyncio module PEP 3156) on Python 2. Trollius works on Python 2.6-3.4. It has been tested on Windows Linux Mac OS X FreeBSD and OpenIndiana. . This package contains the Python 3.x module."	Apache-2.0			
python-oslo.service	python-oslo.service	"library for running OpenStack services - Python 2.x The oslo.service library provides a framework for managing long-running services in OpenStack projects. . Features include: * Creation and management of long running service processes and threads. * Periodic task management. * SSL configuration of services. * SystemD notification support. . This package contains the Python 2.x module."	Apache-2.0			

Package name	Source	Package Description	Package License	Encryption types	Encryption Max Key Length	Comment
cinder-api	cinder	"OpenStack block storage system - API server Cinder is a block Storage-as-a-Service system for the OpenStack cloud computing suite. It re-implements the features of Nova-volume which it directly replaces. . Cinder uses LVM partitions of your volume servers in order to provide iSCSI permanent block storage devices for your virtual machines running on Nova. It also has back-end drivers for many hardware and software storage solutions like Ceph NFS Net-APP etc. . This package contains the Cinder API server."	Apache-2.0			
python3-pyeclib	python-pyeclib	"interface for implementing erasure codes - Python 3.x This library provides a simple Python interface for implementing erasure codes. To obtain the best possible performance the underlying erasure code algorithms are written in C. . This library makes use of Jerasure for Reed-Solomon and provides its own flat XOR-based erasure code encoder and decoder. Currently it implements a specific class of HD Combination Codes (see "Flat XOR-based erasure codes in storage systems: Constructions efficient recovery and tradeoffs" in IEEE MSST 2010). These codes are well-suited to archival use-cases have a simple construction and require a minimum number of participating disks during single-disk reconstruction (think XOR-based LRC code). . This package contains the Python 3.x module."	BSD-2-Clause			
python-stevedore-doc	stevedore	"manage dynamic plugins for Python applications - doc Python makes loading code dynamically easy allowing you to configure and extend your application by discovering and loading extensions (plugins) at runtime. Many applications implement their own library for doing this using __import__ or importlib. stevedore avoids creating yet another extension mechanism by building on top of setuptools entry points. The code for managing entry points tends to be repetitive though so stevedore provides manager classes for implementing common patterns for using dynamically loaded extensions. . This package contains the documentation."	GPL-2.0+ GPL-2.0 Apache-2.0			
python3-pyasn1	pyasn1	"ASN.1 library for Python (Python 3 module) This is an implementation of ASN.1 types and codecs in Python programming language. It has been first written to support particular protocol (SNMP) but then generalized to be suitable for a wide range of protocols based on ASN.1 specification. . This package contains the Python 3 module."	GPL-2.0+ GPL-2.0 BSD-2-Clause			
python-libvirt	libvirt-python	"libvirt Python bindings Libvirt is a C toolkit to interact with the virtualization capabilities of recent versions of Linux (and other OSes). The library aims at providing a long term stable C API for different virtualization mechanisms. It currently supports QEMU KVM XEN OpenVZ LXC and VirtualBox. . This package contains the Python 2 bindings for the libvirt library"	GPL-2.0+ GPL-2.0 LGPL-2.1			
cgroup-upstart	cgroup-upstart	"Set of upstart scripts for libcgroup1 cgroup-bin and cgroup-lite packages. Adds the ability to run cgrulesengd (CGroups Rules Engine Daemon) as a service. Also adds auto start of cgconfigparser after starting the cgroups-lite service."	unknown			

Package name	Source	Package Description	Package License	Encryption types	Encryption Max Key Length	Comment
python-kazoo-doc	kazoo	"API to Apache Zookeeper for Python clients. - API documentation Kazoo features: . * Support for gevent 0.13 and gevent 1.0b * Unified asynchronous API for use with greenlets or threads * Lock Party Election and Partitioner recipe implementations (more implementations are in development) * Data and Children Watchers * Integrated testing helpers for Zookeeper clusters * Simplified Zookeeper connection state tracking * Pure-Python based implementation of the wire protocol avoiding all the memory leaks lacking features and debugging madness of the C library . Kazoo is heavily inspired by Netflix Curator simplifications and helpers. . This package contains the API documentation."	Apache-2.0			
python3-cachecontrol	python-cachecontrol	"caching algorithms in httplib2 for use with requests CacheControl is a port of the caching algorithms in httplib2 for use with requests session object. . It was written because httplib2's better support for caching is often mitigated by its lack of threadsafety. The same is true of requests in terms of caching. . This is the Python 3 library."	Apache-2.0			
python3-appconf	python-django-appconf	"helper class handling configuration defaults of apps - 3.x transition package Say you have an app with a few defaults which you want to refer to in the app's code without repeating yourself all the time. Django-appconf provides a simple helper class to implement those defaults. . This is a transitional package to upgrade to python3-django-appconf and it is safe to remove."	BSD-3-Clause			
qemu-user-binfmt	qemu	"QEMU user mode binfmt registration for qemu-user QEMU is a fast processor emulator: currently the package supports ARM CRIS i386 M68k (ColdFire) MicroBlaze MIPS PowerPC SH4 SPARC and x86-64 emulation. By using dynamic translation it achieves reasonable speed while being easy to port on new host CPUs. . This package provides binfmt support registration for the user mode emulation binaries from qemu-user. This is an empty package it does not contain any additional files only registration scripts which run at install and remove times."	unknown	crypt	65	
qemu-user-binfmt	qemu	"QEMU user mode binfmt registration for qemu-user QEMU is a fast processor emulator: currently the package supports ARM CRIS i386 M68k (ColdFire) MicroBlaze MIPS PowerPC SH4 SPARC and x86-64 emulation. By using dynamic translation it achieves reasonable speed while being easy to port on new host CPUs. . This package provides binfmt support registration for the user mode emulation binaries from qemu-user. This is an empty package it does not contain any additional files only registration scripts which run at install and remove times."	unknown	aes	256	
qemu-user-binfmt	qemu	"QEMU user mode binfmt registration for qemu-user QEMU is a fast processor emulator: currently the package supports ARM CRIS i386 M68k (ColdFire) MicroBlaze MIPS PowerPC SH4 SPARC and x86-64 emulation. By using dynamic translation it achieves reasonable speed while being easy to port on new host CPUs. . This package provides binfmt support registration for the user mode emulation binaries from qemu-user. This is an empty package it does not contain any additional files only registration scripts which run at install and remove times."	unknown	des	56	

Package name	Source	Package Description	Package License	Encryption types	Encryption Max Key Length	Comment
qemu-user-binfmt	qemu	"QEMU user mode binfmt registration for qemu-user QEMU is a fast processor emulator: currently the package supports ARM CRIS i386 M68k (ColdFire) MicroBlaze MIPS PowerPC SH4 SPARC and x86-64 emulation. By using dynamic translation it achieves reasonable speed while being easy to port on new host CPUs. . This package provides binfmt support registration for the user mode emulation binaries from qemu-user. This is an empty package it does not contain any additional files only registration scripts which run at install and remove times."	unknown	tripledes	168	
qemu-user-binfmt	qemu	"QEMU user mode binfmt registration for qemu-user QEMU is a fast processor emulator: currently the package supports ARM CRIS i386 M68k (ColdFire) MicroBlaze MIPS PowerPC SH4 SPARC and x86-64 emulation. By using dynamic translation it achieves reasonable speed while being easy to port on new host CPUs. . This package provides binfmt support registration for the user mode emulation binaries from qemu-user. This is an empty package it does not contain any additional files only registration scripts which run at install and remove times."	unknown	sha	512	
libapache2-mod-wsgi-py3	mod-wsgi	"Python 3 WSGI adapter module for Apache The mod_wsgi adapter is an Apache module that provides a WSGI (Web Server Gateway Interface) a standard interface between web server software and web applications written in Python) compliant interface for hosting Python based web applications within Apache. The adapter provides significantly better performance than using existing WSGI adapters for mod_python or CGI. . This package provides module for Python 3.X."	Apache-2.0			
python3-keyring	python-keyring	"store and access your passwords safely - Python 3 version of the package The Python keyring library provides an easy way to access the system keyring service (e.g Gnome-Keyring KWallet) from Python. It can be used in any application that needs safe password storage. . This is the Python 3 version of the package."	GPL-3.0 MIT			
fuel-library9.0	fuel-library9.0	"Set of puppet scripts for Fuel Fuel is an open source deployment and management tool for OpenStack. Developed as an OpenStack community effort it provides an intuitive GUI-driven experience for deployment and management of OpenStack related community projects and plug-ins. . Fuel brings consumer-grade simplicity to streamline and accelerate the otherwise time-consuming often complex and error-prone process of deploying testing and maintaining various configuration flavors of OpenStack at scale. Unlike other platform-specific deployment or management utilities Fuel is an upstream OpenStack project that focuses on automating the deployment and testing of OpenStack and a range of third-party options so it's not compromised by hard bundling or vendor lock-in. . This package contains deployment manifests and code to execute provisioning of master and slave nodes."	unknown			



Package name	Source	Package Description	Package License	Encryption types	Encryption Max Key Length	Comment
puppet-common	puppet	"configuration management system Puppet is a server automation tool. It is composed of a declarative language for expressing system configuration a client and server for distributing it and a library for realizing the configuration. . The primary design goal of Puppet is to have an expressive enough language backed by a powerful enough library that you can write your own server automation applications in just a few lines of code. Puppet?s deep extensibility and open source license lets you add functionality as needed and share your innovations with others. . This package contains the puppet software and documentation. To automatically start a puppet agent install the "puppet" package. To install and configure a puppet master install one of the "puppetmaster" or "puppetmaster-passenger" packages."	GPL-2.0+ GPL-2.0 BSD-3-Clause MIT Public Domain Apache-2.0			
python3-smmap	python-smmap	"pure Python implementation of a sliding window memory map manager Smmap wraps an interface around mmap and tracks the mapped files as well as the amount of clients who use it. If the system runs out of resources or if a memory limit is reached it will automatically unload unused maps to allow continued operation. . This package for Python 3."	BSD-3-Clause			
pacemaker-remote	pacemaker	"cluster resource manager proxy daemon for remote nodes At its core Pacemaker is a distributed finite state machine capable of co-ordinating the startup and recovery of inter-related services across a set of machines. . Pacemaker understands many different resource types (OCF SYSV systemd) and can accurately model the relationships between them (colocation ordering). . It can even use technology such as Docker to automatically isolate the resources managed by the cluster. . This package contains the Pacemaker proxy daemon which simulates cluster services on a node not running the cluster stack. Such "remote" nodes can run resources but don't participate in the quorum. This package is mutually exclusive with Pacemaker proper."	GPL-2.0+ GPL-2.0 LGPL-2.1	md5	128	
libjasure-dev	jasure	"forward error correction erasure channel library - development files In information theory an erasure code is a forward error correction (FEC) code for the binary erasure channel which transforms a message of symbols into a longer message (code word) with symbols such that the original message can be recovered from a subset of the symbols. . Jerasure is a shared library that been designed to be modular fast and flexible. It is used in storage systems such as Swift and Ceph to add fault tolerance. . This package contains the development files needed to build against the shared library."	BSD			
python3-glance-store	python-glance-store	"OpenStack Image Service store library - Python 3.x The Glance project provides services for discovering registering and retrieving virtual machine images over the cloud. They may be stand-alone services or may be used to deliver images from object stores such as OpenStack's Swift service to Nova's compute nodes. . This package contains the Python 2.x module for the Glance's stores."	Apache-2.0			
python-oslo.reports-doc	python-oslo.reports	"reports serialized in various data types - doc This package/module provides mechanisms for defining reports which may then be serialized into various data types. Each report is composed of one or more report sections which contain generators which generate data models which are then serialized by views. . This package contains the documentation."	Apache-2.0			

Package name	Source	Package Description	Package License	Encryption types	Encryption Max Key Length	Comment
python-rados	ceph	"Python libraries for the Ceph librados library Ceph is a massively scalable open-source distributed storage system that runs on commodity hardware and delivers object block and file system storage. . This package contains Python libraries for interacting with Ceph's RADOS object storage."	GPL-2.0+ GPL-2.0 GPL-3.0 LGPL-2.0 LGPL-2.1 BSD-2-Clause BSD-3-Clause Public Domain Apache-2.0	crush	unlimited	cephhash
python-rados	ceph	"Python libraries for the Ceph librados library Ceph is a massively scalable open-source distributed storage system that runs on commodity hardware and delivers object block and file system storage. . This package contains Python libraries for interacting with Ceph's RADOS object storage."	GPL-2.0+ GPL-2.0 GPL-3.0 LGPL-2.0 LGPL-2.1 BSD-2-Clause BSD-3-Clause Public Domain Apache-2.0	sha	512	
python-rados	ceph	"Python libraries for the Ceph librados library Ceph is a massively scalable open-source distributed storage system that runs on commodity hardware and delivers object block and file system storage. . This package contains Python libraries for interacting with Ceph's RADOS object storage."	GPL-2.0+ GPL-2.0 GPL-3.0 LGPL-2.0 LGPL-2.1 BSD-2-Clause BSD-3-Clause Public Domain Apache-2.0	aes	256	
python-rados	ceph	"Python libraries for the Ceph librados library Ceph is a massively scalable open-source distributed storage system that runs on commodity hardware and delivers object block and file system storage. . This package contains Python libraries for interacting with Ceph's RADOS object storage."	GPL-2.0+ GPL-2.0 GPL-3.0 LGPL-2.0 LGPL-2.1 BSD-2-Clause BSD-3-Clause Public Domain Apache-2.0	abacus	0	
python-rados	ceph	"Python libraries for the Ceph librados library Ceph is a massively scalable open-source distributed storage system that runs on commodity hardware and delivers object block and file system storage. . This package contains Python libraries for interacting with Ceph's RADOS object storage."	GPL-2.0+ GPL-2.0 GPL-3.0 LGPL-2.0 LGPL-2.1 BSD-2-Clause BSD-3-Clause Public Domain Apache-2.0	md5	128	
python3-pycadf	python-pycadf	"implementation of DMTF Cloud Audit (CADF) data model - 3.x pyCADF is an implementation of DMTF Cloud Audit (CADF) data model. DMTF Cloud Management Initiative is promoting the work of the Cloud Management Work Group the Cloud Auditing Data Federation Working Group the System Virtualization Partitioning Clustering Working Group and the Software Entitlement Working Group. See <a href="http://dmtf.org">http://dmtf.org</a> for details. . This package contains the Python 3.x module."	Apache-2.0			
python-oslo.rootwrap	python-oslo.rootwrap	"allows fine filtering of shell commands to run as root - Python 2.x The Oslo Rootwrap allows fine filtering of shell commands to run as root from OpenStack services. . Unlike other Oslo deliverables it should not be used as a Python library but called as a separate process through the oslo-rootwrap command. . This package provides the Python 2.x module."	Apache-2.0			
erlang-percept	erlang	"Erlang/OTP concurrency profiling tool Percept is a tool which visualizes application level concurrency and helps to identify concurrency bottlenecks."	LGPL-2.1 Apache-2.0	aes	256	
erlang-percept	erlang	"Erlang/OTP concurrency profiling tool Percept is a tool which visualizes application level concurrency and helps to identify concurrency bottlenecks."	LGPL-2.1 Apache-2.0	diffiehellman	unlimited	
erlang-percept	erlang	"Erlang/OTP concurrency profiling tool Percept is a tool which visualizes application level concurrency and helps to identify concurrency bottlenecks."	LGPL-2.1 Apache-2.0	blowfish	448	
erlang-percept	erlang	"Erlang/OTP concurrency profiling tool Percept is a tool which visualizes application level concurrency and helps to identify concurrency bottlenecks."	LGPL-2.1 Apache-2.0	sha	512	
erlang-percept	erlang	"Erlang/OTP concurrency profiling tool Percept is a tool which visualizes application level concurrency and helps to identify concurrency bottlenecks."	LGPL-2.1 Apache-2.0	hmac	160	
erlang-percept	erlang	"Erlang/OTP concurrency profiling tool Percept is a tool which visualizes application level concurrency and helps to identify concurrency bottlenecks."	LGPL-2.1 Apache-2.0	md5	128	

Package name	Source	Package Description	Package License	Encryption types	Encryption Max Key Length	Comment
python3-sphinxcontrib-programoutput	sphinxcontrib-programoutput	"insert the output of arbitrary commands into documents - Python 3.x sphinxcontrib-programoutput is a Sphinx extension to literally insert the output of arbitrary commands into documents helping you to keep your command examples up to date. . This package provides the Python 3.x module."	BSD-2-Clause			
libcrmcommon-dev	pacemaker	"cluster resource manager common library development At its core Pacemaker is a distributed finite state machine capable of co-ordinating the startup and recovery of inter-related services across a set of machines. . Pacemaker understands many different resource types (OCF SYSV systemd) and can accurately model the relationships between them (colocation ordering). . It can even use technology such as Docker to automatically isolate the resources managed by the cluster. . This package contains the headers and other necessary files to build applications or libraries that use the common library."	GPL-2.0+ GPL-2.0 LGPL-2.1	md5	128	
python3-whoosh	python-whoosh	"pure-Python full-text indexing search and spell checking library (Python 3) Whoosh is a fast pure-Python indexing and search library. Programmers can use it to easily add search functionality to their applications and websites. As Whoosh is pure Python you don't have to compile or install a binary support library and/or make Python work with a JVM yet indexing and searching is still very fast. Whoosh is designed to be modular so every part can be extended or replaced to meet your needs exactly. . This package contains the python3 library"	BSD-2-Clause			
python3-pep8	pep8	"Python PEP 8 code style checker - python3 Features a plugin architecture allowing for adding new checks is easily. Parseable output listing line numbers of the error location. Consists of just one Python file and requires only stdlib. . Python 3 version."	GPL-3.0			
python3-django-appconf	python-django-appconf	"helper class handling configuration defaults of apps - Python 3.x Say you have an app with a few defaults which you want to refer to in the app's code without repeating yourself all the time. Django-appconf provides a simple helper class to implement those defaults. . This package provides the Python 3.x module."	BSD-3-Clause			
ceilometer-agent-notification	ceilometer	"OpenStack efficient metering counters system - notification agent Ceilometer aims to deliver a Single Point Of Contact for billing systems providing all the counters they need to establish customer billing across all current and future OpenStack components. The delivery of counters must be traceable and auditable the counters must be easily extensible to support new projects and agents doing data collections should be independent of the overall system. . (A ceilometer is an instrument that measures cloud coverage.) . This package contains the notification agent daemon."	Apache-2.0			
python-oslo.middleware-doc	python-oslo.middleware	"various WSGI middleware components for OpenStack - doc The oslo.middleware library contains various functions and methods used by the OpenStack projects that are using the WSGI pipeline. . This package contains the documentation."	Apache-2.0			
erlang-examples	erlang	"Erlang/OTP application examples The examples included in the Erlang/OTP system distribution."	LGPL-2.1 Apache-2.0	aes	256	
erlang-examples	erlang	"Erlang/OTP application examples The examples included in the Erlang/OTP system distribution."	LGPL-2.1 Apache-2.0	diffiehellman	unlimited	
erlang-examples	erlang	"Erlang/OTP application examples The examples included in the Erlang/OTP system distribution."	LGPL-2.1 Apache-2.0	blowfish	448	

Package name	Source	Package Description	Package License	Encryption types	Encryption Max Key Length	Comment
erlang-examples	erlang	"Erlang/OTP application examples The examples included in the Erlang/OTP system distribution."	LGPL-2.1 Apache-2.0	sha	512	
erlang-examples	erlang	"Erlang/OTP application examples The examples included in the Erlang/OTP system distribution."	LGPL-2.1 Apache-2.0	hmac	160	
erlang-examples	erlang	"Erlang/OTP application examples The examples included in the Erlang/OTP system distribution."	LGPL-2.1 Apache-2.0	md5	128	
rest-bench	ceph	"RESTful bencher that can be used to benchmark radosgw performance Simple tool to benchmark radosgw (or S3) (based on 'rados-bench' command)."	GPL-2.0+ GPL-2.0 GPL-3.0 LGPL-2.0 LGPL-2.1 BSD-2-Clause BSD-3-Clause Public Domain Apache-2.0	crush	unlimited	cephhash
rest-bench	ceph	"RESTful bencher that can be used to benchmark radosgw performance Simple tool to benchmark radosgw (or S3) (based on 'rados-bench' command)."	GPL-2.0+ GPL-2.0 GPL-3.0 LGPL-2.0 LGPL-2.1 BSD-2-Clause BSD-3-Clause Public Domain Apache-2.0	sha	512	
rest-bench	ceph	"RESTful bencher that can be used to benchmark radosgw performance Simple tool to benchmark radosgw (or S3) (based on 'rados-bench' command)."	GPL-2.0+ GPL-2.0 GPL-3.0 LGPL-2.0 LGPL-2.1 BSD-2-Clause BSD-3-Clause Public Domain Apache-2.0	aes	256	
rest-bench	ceph	"RESTful bencher that can be used to benchmark radosgw performance Simple tool to benchmark radosgw (or S3) (based on 'rados-bench' command)."	GPL-2.0+ GPL-2.0 GPL-3.0 LGPL-2.0 LGPL-2.1 BSD-2-Clause BSD-3-Clause Public Domain Apache-2.0	abacus	0	
rest-bench	ceph	"RESTful bencher that can be used to benchmark radosgw performance Simple tool to benchmark radosgw (or S3) (based on 'rados-bench' command)."	GPL-2.0+ GPL-2.0 GPL-3.0 LGPL-2.0 LGPL-2.1 BSD-2-Clause BSD-3-Clause Public Domain Apache-2.0	md5	128	
python-gdbm-dbg	python-stdlib-extensions	"GNU dbm database support for Python (debug extension) GNU dbm database module for Python. Install this if you want to create or read GNU dbm database files with Python. . This package contains the extensions built for the Python debug interpreter."	unknown			
libsubunit-perl	subunit	"perl parser and diff for Subunit streams subunit is a protocol for test activity serialisation deserialisation. This permits executing tests remotely or saving the result of test runs for later introspection. . The libsubunit-perl package contains the Perl language support for Subunit."	BSD-3-Clause Apache-2.0			
python3-unicodcsv	python-unicodcsv	"drop-in replacement for Pythons CSV module with Unicode support The unicodcsv is a drop-in replacement for Pythons CSV module which supports Unicode strings without a hassle. . This is the module for Python 3."	BSD-2-Clause			
python-ceilometerclient-doc	python-ceilometerclient	"Client library for Openstack Ceilometer API server - doc Ceilometer aims to deliver a unique point of contact for billing systems to acquire all counters they need to establish customer billing across all current and future OpenStack components. The delivery of counters must be traceable and auditable the counters must be easily extensible to support new projects and agents doing data collections should be independent of the overall system. . This is a client for the Ceilometer which uses the OpenStack Image API. There's a Python API (the "ceilometerclient" module) and a command-line script ("ceilometer"). . This package contains the documentation."	Apache-2.0			
python3-boto	python-boto	"Python interface to Amazon's Web Services - Python 3.x Boto is a Python interface to the infrastructure services available from Amazon. . Boto supports the following services: * Elastic Compute Cloud (EC2) * Elastic MapReduce * CloudFront * DynamoDB * SimpleDB * Relational Database Service (RDS) * Identity and Access Management (IAM) * Simple Queue Service (SQS) * CloudWatch * Route53 * Elastic Load Balancing (ELB) * Flexible Payment Service (FPS) * Simple Storage Service (S3) * Glacier * Elastic Block Store (EBS) * and many more... . This package provides the Python 3.x module."	Unknown			

Package name	Source	Package Description	Package License	Encryption types	Encryption Max Key Length	Comment
python3-django-overextends	python-django-overextends	"reusable app providing circular template inheritance - Python 3.x A Django reusable app providing the overextends template tag a drop-in replacement for Django's extends tag which allows you to use circular template inheritance. . The primary use-case for overextends is to simultaneously override and extend templates from other reusable apps in your own Django project. . This package contains the Python 3.x module."	BSD-2-Clause			
python3-xstatic-angular-bootstrap	python-xstatic-angular-bootstrap	"Angular-Bootstrap XStatic support - Python 3.x XStatic is a Python web development tool for handling required static data files from external projects such as CSS images and JavaScript. It provides a lightweight infrastructure to manage them via Python modules that your app can depend on in a portable virtualenv-friendly way instead of using embedded copies. . This package contains the Angular-Bootstrap support as a Python 3.x module."	Unknown			
libiperf-dev	iperf3	"Internet Protocol bandwidth measuring tool (development files) Iperf3 is a tool for performing network throughput measurements. It can test either TCP or UDP throughput. . This is a new implementation that shares no code with the original iperf from NLNR/DAST and also is not backwards compatible. . This is the development package which contains headers files and the static iperf library."	GPL-2.0+ GPL-2.0 BSD-3-Clause MIT Public Domain			
python3-novaclient	python-novaclient	"client library for OpenStack Compute API - 3.x OpenStack Compute codenamed Nova is a cloud computing fabric controller designed to be modular and easy to extend and adapt. In addition to its "native" OpenStack API it also supports the Amazon EC2 API and it supports many different database backends (including SQLite MySQL and PostgreSQL) hypervisors (KVM Xen) and user directory systems (LDAP SQL). . Python novaclient library and nova CLI tool for interacting with OpenStack Compute (Nova) through the OpenStack Compute API. . This package provides the Python 3.x module."	Apache-2.0			
python3-cffi	python-cffi	"Foreign Function Interface for Python 3 calling C code Convenient and reliable way of calling C code from Python 3. . The aim of this project is to provide a convenient and reliable way of calling C code from Python. It keeps Python logic in Python and minimises the C required. It is able to work at either the C API or ABI level unlike most other approaches that only support the ABI level. . This package contains the necessary build and runtime support for cffi modules."	Unknown			
python-sahara-dashboard	sahara-dashboard	"Dashboard for OpenStack Data Processing (Sahara)"	Apache-2.0			
python-os-client-config-doc	python-os-client-config	"OpenStack client configuration library - doc Os-client-config is a library for collecting client configuration for using an OpenStack cloud in a consistent and comprehensive manner. It will find cloud config for as few as 1 cloud and as many as you want to put in a config file. It will read environment variables and config files and it also contains some vendor specific default values so that you don't have to know extra info to use OpenStack . os-client-config honors all of the normal OS_* variables. It does not provide backwards compatibility to service-specific variables such as NOVA_USERNAME. . If you have environment variables and no config files os-client-config will produce a cloud config object named "openstack" containing your values from the environment. . This package contains the documentation."	Apache-2.0			

Package name	Source	Package Description	Package License	Encryption types	Encryption Max Key Length	Comment
python3-flake8	python-flake8	"code checker using pep8 and pyflakes (Python 3) Flake8 is a wrapper around PyFlakes pep8 and Ned's McCabe script. Flake8 runs all tools by launching the single 'flake8' script but ignores pep8 and PyFlakes extended options and just uses defaults. It displays the warnings in a per-file merged output. . This package provides Python 3 module bindings only."	Unknown			
python3-rtslib-fb	python-rtslib-fb	"object API for managing the Linux LIO kernel target - Python 3.x The rtlib-fb package is an object-based Python library for configuring the LIO generic SCSI target present in 3.x Linux kernel versions. . The rtlib-fb package is a fork of the "rtlib" code written by RisingTide Systems. The "-fb" differentiates between the original and this version. Ensure to use either all "fb" versions of the targetcli components -- targetcli rtlib and configshell or stick with all non-fb versions since they are no longer strictly compatible. . This package contains the Python 3.x module."	Apache-2.0			
libcephfs-jni-dbg	ceph	"debugging symbols for libcephfs-jni Ceph is a distributed storage system designed to provide excellent performance reliability and scalability. . This package contains debugging symbols for libcephfs-jni."	GPL-2.0+ GPL-2.0 GPL-3.0 LGPL-2.0 LGPL-2.1 BSD-2-Clause BSD-3-Clause Public Domain Apache-2.0	crush	unlimited	cephhash
libcephfs-jni-dbg	ceph	"debugging symbols for libcephfs-jni Ceph is a distributed storage system designed to provide excellent performance reliability and scalability. . This package contains debugging symbols for libcephfs-jni."	GPL-2.0+ GPL-2.0 GPL-3.0 LGPL-2.0 LGPL-2.1 BSD-2-Clause BSD-3-Clause Public Domain Apache-2.0	sha	512	
libcephfs-jni-dbg	ceph	"debugging symbols for libcephfs-jni Ceph is a distributed storage system designed to provide excellent performance reliability and scalability. . This package contains debugging symbols for libcephfs-jni."	GPL-2.0+ GPL-2.0 GPL-3.0 LGPL-2.0 LGPL-2.1 BSD-2-Clause BSD-3-Clause Public Domain Apache-2.0	aes	256	
libcephfs-jni-dbg	ceph	"debugging symbols for libcephfs-jni Ceph is a distributed storage system designed to provide excellent performance reliability and scalability. . This package contains debugging symbols for libcephfs-jni."	GPL-2.0+ GPL-2.0 GPL-3.0 LGPL-2.0 LGPL-2.1 BSD-2-Clause BSD-3-Clause Public Domain Apache-2.0	abacus	0	
libcephfs-jni-dbg	ceph	"debugging symbols for libcephfs-jni Ceph is a distributed storage system designed to provide excellent performance reliability and scalability. . This package contains debugging symbols for libcephfs-jni."	GPL-2.0+ GPL-2.0 GPL-3.0 LGPL-2.0 LGPL-2.1 BSD-2-Clause BSD-3-Clause Public Domain Apache-2.0	md5	128	
python-sphinxcontrib-docbookrestapi	sphinxcontrib-docbookrestapi	"generating REST API documentation for api.openstack.org - transitional package This extension to Sphinx make it possible to generate REST API documentation for the OpenStack API as described in the official API web site at <a href="http://api.openstack.org/">http://api.openstack.org/</a> . This package is a transitional dummy package."	Apache-2.0			
python3-oslo-config	python-oslo.config	"transitional dummy package for python3-oslo-config This transitional package is safe to remove and use python3-oslo.config instead."	Apache-2.0			
puppet-el	puppet	"syntax highlighting for puppet manifests in emacs The puppet-el package provides syntax highlighting for puppet manifests (files ending with ".pp"). . As per the Debian emacs policy installed addons are activated automatically."	GPL-2.0+ GPL-2.0 BSD-3-Clause MIT Public Domain Apache-2.0			
mcollective-doc	mcollective	"Documentation for mcollective The Marionette Collective aka. mcollective is a framework to build server orchestration or parallel job execution systems. . Documentation package."	Apache-2.0			
python-funcsigs-doc	python-funcsigs	"function signatures from PEP362 - doc funcsigs is a backport of the PEP 362 function signature features from Python 3.3's inspect module. The backport is compatible with Python 2.6 2.7 as well as 3.2 and up. . This package contains the documentation."	Apache-2.0			

Package name	Source	Package Description	Package License	Encryption types	Encryption Max Key Length	Comment
python3-oslo.i18n	python-oslo.i18n	"Oslo Internationalization Utilities - Python 3.x The oslo.i18n library contain utilities for working with internationalization (i18n) features especially translation for text strings in an application or library. . This package contains the Python 3.x module."	Apache-2.0			
qemu-user-static	qemu	"QEMU user mode emulation binaries (static version) QEMU is a fast processor emulator: currently the package supports ARM CRIS i386 M68k (ColdFire) MicroBlaze MIPS PowerPC SH4 SPARC and x86-64 emulation. By using dynamic translation it achieves reasonable speed while being easy to port on new host CPUs. . This package provides the user mode emulation binaries built statically. In this mode QEMU can launch Linux processes compiled for one CPU on another CPU. . If binfmt-support package is installed qemu-user-static package will register binary formats which the provided emulators can handle so that it will be possible to run foreign binaries directly."	GPL-2.0 MIT	crypt	65	
qemu-user-static	qemu	"QEMU user mode emulation binaries (static version) QEMU is a fast processor emulator: currently the package supports ARM CRIS i386 M68k (ColdFire) MicroBlaze MIPS PowerPC SH4 SPARC and x86-64 emulation. By using dynamic translation it achieves reasonable speed while being easy to port on new host CPUs. . This package provides the user mode emulation binaries built statically. In this mode QEMU can launch Linux processes compiled for one CPU on another CPU. . If binfmt-support package is installed qemu-user-static package will register binary formats which the provided emulators can handle so that it will be possible to run foreign binaries directly."	GPL-2.0 MIT	aes	256	
qemu-user-static	qemu	"QEMU user mode emulation binaries (static version) QEMU is a fast processor emulator: currently the package supports ARM CRIS i386 M68k (ColdFire) MicroBlaze MIPS PowerPC SH4 SPARC and x86-64 emulation. By using dynamic translation it achieves reasonable speed while being easy to port on new host CPUs. . This package provides the user mode emulation binaries built statically. In this mode QEMU can launch Linux processes compiled for one CPU on another CPU. . If binfmt-support package is installed qemu-user-static package will register binary formats which the provided emulators can handle so that it will be possible to run foreign binaries directly."	GPL-2.0 MIT	des	56	
qemu-user-static	qemu	"QEMU user mode emulation binaries (static version) QEMU is a fast processor emulator: currently the package supports ARM CRIS i386 M68k (ColdFire) MicroBlaze MIPS PowerPC SH4 SPARC and x86-64 emulation. By using dynamic translation it achieves reasonable speed while being easy to port on new host CPUs. . This package provides the user mode emulation binaries built statically. In this mode QEMU can launch Linux processes compiled for one CPU on another CPU. . If binfmt-support package is installed qemu-user-static package will register binary formats which the provided emulators can handle so that it will be possible to run foreign binaries directly."	GPL-2.0 MIT	tripleDES	168	

Package name	Source	Package Description	Package License	Encryption types	Encryption Max Key Length	Comment
qemu-user-static	qemu	"QEMU user mode emulation binaries (static version) QEMU is a fast processor emulator: currently the package supports ARM CRIS i386 M68k (ColdFire) MicroBlaze MIPS PowerPC SH4 SPARC and x86-64 emulation. By using dynamic translation it achieves reasonable speed while being easy to port on new host CPUs. . This package provides the user mode emulation binaries built statically. In this mode QEMU can launch Linux processes compiled for one CPU on another CPU. . If binfmt-support package is installed qemu-user-static package will register binary formats which the provided emulators can handle so that it will be possible to run foreign binaries directly."	GPL-2.0 MIT	sha	512	
mysql-wsrep-common-5.6	mysql-wsrep-5.6	"MySQL 5.6 specific common files e.g. /etc/mysql/conf.d/my-5.6.cnf MySQL is a fast stable and true multi-user multi-threaded SQL database server. SQL (Structured Query Language) is the most popular database query language in the world. The main goals of MySQL are speed robustness and ease of use."	GPL-2.0+ GPL-2.0 LGPL-2.0 BSD-3-Clause BSD MIT Public Domain ISC			
python-sphinx	sphinx	"documentation generator for Python projects (implemented in Python 2) Sphinx is a tool for producing documentation for Python projects using reStructuredText as markup language. . Sphinx features: * HTML CHM LaTeX output * Cross-referencing source code * Automatic indices * Code highlighting using Pygments * Extensibility. Existing extensions: - automatic testing of code snippets - including docstrings from Python modules. . This package includes Python 2 modules and command line utilities."	MIT Public Domain			
python-xstatic-mdi	python-xstatic-mdi	"Material Design Icons Webfont XStatic support - Python 2.7 XStatic is a Python web development tool for handling required static data files from external projects such as CSS images and JavaScript. It provides a lightweight infrastructure to manage them via Python modules that your app can depend on in a portable virtualenv-friendly way instead of using embedded copies. . This package contains the Python 2.7 module support for the Material Design Icons Webfont. See the description of the fonts-materialdesignicons-webfont package."	Unknown			
nova-doc	nova	"OpenStack Compute - documentation OpenStack is a reliable cloud infrastructure. Its mission is to produce the ubiquitous cloud computing platform that will meet the needs of public and private cloud providers regardless of size by being simple to implement and massively scalable. . OpenStack Compute codenamed Nova is a cloud computing fabric controller designed to be modular and easy to extend and adapt. In addition to its "native" OpenStack API it also supports the Amazon EC2 API and it supports many different database backends (including SQLite MySQL and PostgreSQL) hypervisors (KVM Xen) and user directory systems (LDAP SQL). . This package contains the documentation for Nova."	Apache-2.0			



Package name	Source	Package Description	Package License	Encryption types	Encryption Max Key Length	Comment
python3-jsonpath-rw	python-jsonpath-rw	"extended implementation of JSONPath for Python 3.x This library provides a robust and significantly extended implementation of JSONPath for Python. It is tested with Python 2.6 2.7 3.2 and 3.3. . This library differs from other JSONPath implementations in that it is a full language implementation meaning the JSONPath expressions are first class objects easy to analyze transform parse print and extend. . The JSONPath syntax supported by this library includes some additional features and omits some problematic features (those that make it unportable). In particular some new operators such as " " and "where" are available and parentheses are used for grouping not for callbacks into Python since with these changes the language is not trivially associative. Also fields may be quoted whether or not they are contained in brackets. . This package provides the Python 3.x module."	Apache-2.0			
gunicorn	gunicorn	"Event-based HTTP/WSGI server Green Unicorn (gunicorn) is an HTTP/WSGI server designed to serve fast clients or sleepy applications. That is to say; behind a buffering front-end server such as nginx or lighttpd. . * Optional support for Eventlet Tornado and Gevent to provide asynchronous long-polling ("Comet") connections. * Process management: Gunicorn reaps and restarts workers that die. * Easy integration with Django and Paster compatible applications (Pylons TurboGears 2 etc. * Load balancing via pre-fork and a shared socket * Graceful worker process restarts * Upgrading without losing connections * Decode chunked transfers on-the-fly allowing upload progress notifications or stream-based protocols over HTTP . This is the Python 2 version."	GPL-3.0 BSD MIT			
python3-dateutil	python-dateutil	"powerful extensions to the standard datetime module It features: . * computing of relative deltas (next month next year next monday last week of month etc); * computing of relative deltas between two given date and/or datetime objects * computing of dates based on very flexible recurrence rules using a superset of the iCalendar specification. Parsing of RFC strings is supported as well. * generic parsing of dates in almost any string format * timezone (tzinfo) implementations for tzfile(5) format files (/etc/localtime /usr/share/zoneinfo etc) TZ environment string (in all known formats) iCalendar format files given ranges (with help from relative deltas) local machine timezone fixed offset timezone UTC timezone * computing of Easter Sunday dates for any given year using Western Orthodox or Julian algorithms"	Unknown			
live-boot-initramfs-tools	live-boot	"Live System Boot Components (initramfs-tools backend) The Live Systems project maintains the components to build Debian based Live systems and the official Debian Live images themselves. . live-boot contains the components to configure a live system during the boot process (early userspace). . This package contains the initramfs-tools backend."	GPL-3.0			
python-neutronclient	python-neutronclient	"client API library for Neutron - Python 2.7 Neutron provides an API to dynamically request and configure virtual networks. These networks connect "interfaces" from other OpenStack services (e.g. vNICs from Nova VMs). The Neutron API supports extensions to provide advanced network capabilities (e.g. QoS ACLs network monitoring etc). . This package provides the client and Python 2.7 module."	Apache-2.0			

Package name	Source	Package Description	Package License	Encryption types	Encryption Max Key Length	Comment
nova-volume	nova	"OpenStack Compute - storage metapackage OpenStack is a reliable cloud infrastructure. Its mission is to produce the ubiquitous cloud computing platform that will meet the needs of public and private cloud providers regardless of size by being simple to implement and massively scalable. . OpenStack Compute codenamed Nova is a cloud computing fabric controller designed to be modular and easy to extend and adapt. In addition to its "native" OpenStack API it also supports the Amazon EC2 API and it supports many different database backends (including SQLite MySQL and PostgreSQL) hypervisors (KVM Xen) and user directory systems (LDAP SQL). . This metapackage is for the transition from nova-volume to Cinder."	Apache-2.0			
libcorosync-common-dev	corosync	"Standards-based cluster framework common devel files Corosync is a project to implement a production quality "Revised BSD" licensed implementation of all core functionalities required by openais. The project implements cutting edge research on virtual synchrony to provide 100% correct operation in the face of failures or partitionable networks with excellent performance characteristics. . The Application Interface Specification is a software API and policies which are used to develop applications that maintain service during faults. . This package contains the devel files of corosync's common library."	Public Domain			
python3-oslo-policy	python-oslo.policy	"transitional dummy package for python3-oslo-policy This transitional package to python3-oslo.policy is safe to remove."	Apache-2.0			
python3-ddt	python-ddt	"Data-Driven/Decorated Tests - Python 3.x DDT (Data-Driven Tests) allows you to multiply one test case by running it with different test data and make it appear as multiple test cases. DDT consists of a class decorator ddt (for your TestCase subclass) and two method decorators (for your tests that want to be multiplied). . This package contains the Python 3.x module."	Unknown			
python-neutron-lib	python-neutron-lib	"Neutron shared routines and utilities - Python 2.7 Neutron provides an API to dynamically request and configure virtual networks. These networks connect "interfaces" from other OpenStack services (such as vNICs from Nova VMs). The Neutron API supports extensions to provide advanced network capabilities including QoS ACLs and network monitoring. . Neutron-lib is an OpenStack library project used by Neutron Advanced Services and third-party projects to provide common functionality and remove duplication. . This package provides shared routines and utilities for Python 2.7."	Apache-2.0			
libcrmservice3	pacemaker	"cluster resource manager service library At its core Pacemaker is a distributed finite state machine capable of co-ordinating the startup and recovery of inter-related services across a set of machines. . Pacemaker understands many different resource types (OCF SYSV systemd) and can accurately model the relationships between them (colocation ordering). . It can even use technology such as Docker to automatically isolate the resources managed by the cluster. . This package contains the service library."	GPL-2.0+ GPL-2.0 LGPL-2.1	md5	128	

Package name	Source	Package Description	Package License	Encryption types	Encryption Max Key Length	Comment
python-ddt-doc	python-ddt	"Data-Driven/Decorated Tests - doc DDT (Data-Driven Tests) allows you to multiply one test case by running it with different test data and make it appear as multiple test cases. DDT consists of a class decorator ddt (for your TestCase subclass) and two method decorators (for your tests that want to be multiplied). . This package contains the documentation."	Unknown			
libcephfs-dev	ceph	"Ceph distributed file system client library (development files) Ceph is a distributed network file system designed to provide excellent performance reliability and scalability. This is a shared library allowing applications to access a Ceph distributed file system via a POSIX-like interface. . This package contains development files needed for building applications that link against libcephfs1."	GPL-2.0+ GPL-2.0 GPL-3.0 LGPL-2.0 LGPL-2.1 BSD-2-Clause BSD-3-Clause Public Domain Apache-2.0	crush	unlimited	cephhash
libcephfs-dev	ceph	"Ceph distributed file system client library (development files) Ceph is a distributed network file system designed to provide excellent performance reliability and scalability. This is a shared library allowing applications to access a Ceph distributed file system via a POSIX-like interface. . This package contains development files needed for building applications that link against libcephfs1."	GPL-2.0+ GPL-2.0 GPL-3.0 LGPL-2.0 LGPL-2.1 BSD-2-Clause BSD-3-Clause Public Domain Apache-2.0	sha	512	
libcephfs-dev	ceph	"Ceph distributed file system client library (development files) Ceph is a distributed network file system designed to provide excellent performance reliability and scalability. This is a shared library allowing applications to access a Ceph distributed file system via a POSIX-like interface. . This package contains development files needed for building applications that link against libcephfs1."	GPL-2.0+ GPL-2.0 GPL-3.0 LGPL-2.0 LGPL-2.1 BSD-2-Clause BSD-3-Clause Public Domain Apache-2.0	aes	256	
libcephfs-dev	ceph	"Ceph distributed file system client library (development files) Ceph is a distributed network file system designed to provide excellent performance reliability and scalability. This is a shared library allowing applications to access a Ceph distributed file system via a POSIX-like interface. . This package contains development files needed for building applications that link against libcephfs1."	GPL-2.0+ GPL-2.0 GPL-3.0 LGPL-2.0 LGPL-2.1 BSD-2-Clause BSD-3-Clause Public Domain Apache-2.0	abacus	0	
libcephfs-dev	ceph	"Ceph distributed file system client library (development files) Ceph is a distributed network file system designed to provide excellent performance reliability and scalability. This is a shared library allowing applications to access a Ceph distributed file system via a POSIX-like interface. . This package contains development files needed for building applications that link against libcephfs1."	GPL-2.0+ GPL-2.0 GPL-3.0 LGPL-2.0 LGPL-2.1 BSD-2-Clause BSD-3-Clause Public Domain Apache-2.0	md5	128	
python3-openstackclient	python-openstackclient	"OpenStack Command-line Client - Python 3.x python-openstackclient is a unified command-line client for the OpenStack APIs. It is a thin wrapper to the stock python-*client modules that implement the actual REST API client actions. . This is an implementation of the design goals shown in <a href="http://wiki.openstack.org/UnifiedCLI">http://wiki.openstack.org/UnifiedCLI</a> . The primary goal is to provide a unified shell command structure and a common language to describe operations in OpenStack. . This package contains the Python 3.x module."	Apache-2.0			
golang-go.net-dev	golang-golang-x-net-dev	"Transitional package for golang-golang-x-net-dev This is a transitional package to ease upgrades to the golang-golang-x-net-dev package. It can safely be removed."	BSD-2-Clause BSD-3-Clause			
python3-debtcollector	python-debtcollector	"collection of patterns to collect technical debt - Python 3.x Debtcollector is a collection of Python patterns to help collecting technical debt in a non-destructive manner (following deprecation patterns and strategies and so-on). . This package contains the Python 3.x module."	Apache-2.0			

Package name	Source	Package Description	Package License	Encryption types	Encryption Max Key Length	Comment
rbd-fuse-dbg	ceph	"debugging symbols for rbd-fuse Ceph is a distributed network file system designed to provide excellent performance reliability and scalability. This is a FUSE-based client that allows one to map Ceph rbd images as files. . This package contains the debugging symbols for rbd-fuse."	GPL-2.0+ GPL-2.0 GPL-3.0 LGPL-2.0 LGPL-2.1 BSD-2-Clause BSD-3-Clause Public Domain Apache-2.0	crush	unlimited	cephhash
rbd-fuse-dbg	ceph	"debugging symbols for rbd-fuse Ceph is a distributed network file system designed to provide excellent performance reliability and scalability. This is a FUSE-based client that allows one to map Ceph rbd images as files. . This package contains the debugging symbols for rbd-fuse."	GPL-2.0+ GPL-2.0 GPL-3.0 LGPL-2.0 LGPL-2.1 BSD-2-Clause BSD-3-Clause Public Domain Apache-2.0	sha	512	
rbd-fuse-dbg	ceph	"debugging symbols for rbd-fuse Ceph is a distributed network file system designed to provide excellent performance reliability and scalability. This is a FUSE-based client that allows one to map Ceph rbd images as files. . This package contains the debugging symbols for rbd-fuse."	GPL-2.0+ GPL-2.0 GPL-3.0 LGPL-2.0 LGPL-2.1 BSD-2-Clause BSD-3-Clause Public Domain Apache-2.0	aes	256	
rbd-fuse-dbg	ceph	"debugging symbols for rbd-fuse Ceph is a distributed network file system designed to provide excellent performance reliability and scalability. This is a FUSE-based client that allows one to map Ceph rbd images as files. . This package contains the debugging symbols for rbd-fuse."	GPL-2.0+ GPL-2.0 GPL-3.0 LGPL-2.0 LGPL-2.1 BSD-2-Clause BSD-3-Clause Public Domain Apache-2.0	abacus	0	
rbd-fuse-dbg	ceph	"debugging symbols for rbd-fuse Ceph is a distributed network file system designed to provide excellent performance reliability and scalability. This is a FUSE-based client that allows one to map Ceph rbd images as files. . This package contains the debugging symbols for rbd-fuse."	GPL-2.0+ GPL-2.0 GPL-3.0 LGPL-2.0 LGPL-2.1 BSD-2-Clause BSD-3-Clause Public Domain Apache-2.0	md5	128	
libjs-jquery-tablesorter	libjs-jquery-tablesorter	"Flexible client-side table sorting Tablesorter is a jQuery plugin for turning a standard HTML table with THEAD and TBODY tags into a sortable table without page refreshes. tablesorter can successfully parse and sort many types of data including linked data in a cell. It has many useful features including: . * Multi-column sorting * Parsers for sorting text URIs integers currency floats IP addresses dates (ISO long and short formats) time. Add your own easily * Support secondary "hidden" sorting (e.g. maintain alphabetical sort when sorting on other criteria) * Extensibility via widget system * Cross-browser: IE 6.0+ FF 2+ Safari 2.0+ Opera 9.0+ * Small code size"	GPL-2.0+ GPL-2.0 GPL-3.0 BSD MIT Apache-2.0			
ceilometer-agent-ipmi	ceilometer	"OpenStack efficient metering counters system - IPMI agent Ceilometer aims to deliver a Single Point Of Contact for billing systems providing all the counters they need to establish customer billing across all current and future OpenStack components. The delivery of counters must be traceable and auditable the counters must be easily extensible to support new projects and agents doing data collections should be independent of the overall system. . (A ceilometer is an instrument that measures cloud coverage.) . This package contains the IPMI agent daemon."	Apache-2.0			

Package name	Source	Package Description	Package License	Encryption types	Encryption Max Key Length	Comment
ruby-httpclient	ruby-httpclient	"HTTP client library for ruby (ruby 1.8 version) httpclient gives something like the functionality of libwww-perl (LWP) in Ruby. . Features: * methods like GET/HEAD/POST/* via HTTP/1.1. * HTTPS(SSL) Cookies proxy authentication(Digest NTLM Basic) etc. * asynchronous HTTP request streaming HTTP request. * by contrast with net/http in standard distribution; o Cookies support o MT-safe o streaming POST (POST with File/IO) o Digest auth o Negotiate/NTLM auth for WWW-Authenticate (requires net/htlm module) o NTLM auth for WWW-Authenticate/Proxy-Authenticate (requires win32/sspi module) o extensible with filter interface o you don't have to care HTTP/1.1 persistent connection (httpclient cares instead of you)."	GPL-2.0+ GPL-2.0 Public Domain			
python3-sqlalchemy	sqlalchemy	"SQL toolkit and Object Relational Mapper for Python 3 SQLAlchemy is an SQL database abstraction library for Python. Its strengths are: * full power and flexibility of SQL. SQLAlchemy provides a full suite of well known enterprise-level persistence patterns designed for efficient and high-performing database access adapted into a simple and Pythonic domain language. * extremely easy to use for all the basic tasks such as: accessing pooled connections constructing SQL from Python expressions finding object instances and committing object modifications back to the database. * powerful enough for complicated tasks such as: eager load a graph of objects and their dependencies via joins; map recursive adjacency structures automatically; map objects to not just tables but to any arbitrary join or select statement; combine multiple tables together to load whole sets of otherwise unrelated objects from a single result set; commit entire graphs of object changes in one step. * built to conform to what DBAs demand including the ability to swap out generated SQL with hand-optimized statements full usage of bind parameters for all literal values fully transactionalized and consistent updates using Unit of Work. * modular. Different parts of SQLAlchemy can be used independently of the rest including the connection pool SQL construction and ORM. SQLAlchemy is constructed in an open style that allows plenty of customization with an architecture that supports custom datatypes custom SQL extensions and ORM plugins which can augment or extend mapping functionality."	Unknown			
libqb0	libqb	"high performance client server features library libqb provides a set of high performance client-server reusable features. It offers high performance logging tracing IPC and poll. Its initial features were spun off the Corosync cluster communication suite to make the accessible easier for other projects. .. You'll need this package when installing the Pacemaker cluster manager (1.1.7 or higher) as it makes use of functions provided by this library."	LGPL-2.0			
python-oslo-rootwrap	python-oslo.rootwrap	"transitional dummy package for python-oslo-rootwrap This transtional package is safe to remove."	Apache-2.0			
python3-sqlalchemy-ext	sqlalchemy	"SQL toolkit and Object Relational Mapper for Python3 - C extension SQLAlchemy is an SQL database abstraction library for Python. . This package contains C coded extension accelerator for SQLAlchemy."	Unknown			

Package name	Source	Package Description	Package License	Encryption types	Encryption Max Key Length	Comment
python-jingo	python-jingo	"adapter for using Jinja2 templates with Django - Python 2.x Jingo is an adapter for using Jinja2 templates within Django. When configured properly you can render Jinja2 templates in your view the same way you'd render Django templates. . This package contains the Python 2.x module."	BSD-3-Clause			
python-cmd2	cmd2	"enhanced Python cmd module - Python 2.x Drop-in replacement adds several features for command-prompt tools like searchable and persistent command history multi-line commands input and output redirections integrated Python shell testing helpers . This package provides the Python 2.x module."	MIT			
pypy-setuptools	python-setuptools	"PyPy Distutils Enhancements Extensions to the python-distutils for large or complex distributions."	Unknown			
python3-memcache	python-memcache	"pure Python memcached client - Python 3.x This software is a 100% Python interface to the memcached memory cache daemon. It is the client side software which allows storing values in one or more possibly remote memcached servers. . This package contains the Python 3.x module."	BSD-3-Clause			
python3-xstatic-font-awesome	python-xstatic-font-awesome	"Font Awesome icons - Python 3.x This package is intended to be used by **any** project that needs these files. It intentionally does **not** provide any extra code except some metadata **nor** has any extra requirements. You MAY use some minimal support code from the XStatic base package if you like. You can find more info about the xstatic packaging way in the package `XStatic`"	unknown			
python3-zake	python-zake	"provides a set of testing utilities for the kazoo library - Python 3.x Zake is a Python package that works to provide a nice set of testing utilities for the kazoo library. . It includes the following functionality: * Storage access (for viewing what was saved/created). * Kazoo *mostly* compatible client API. * Sync/transaction/create/get/delete... commands. * Listener support. * And more... . It simplifies testing by providing a client that has a similar API as the kazoo client so that your tests (or applications/libraries that use kazoo) do not require a real zookeeper server to be tested with (since this is not available in all testing environments). . This package contains the Python 3.x module."	Apache-2.0			
nova-compute-qemu	nova	"OpenStack Compute - compute node (QEmu) OpenStack is a reliable cloud infrastructure. Its mission is to produce the ubiquitous cloud computing platform that will meet the needs of public and private cloud providers regardless of size by being simple to implement and massively scalable. . OpenStack Compute codenamed Nova is a cloud computing fabric controller designed to be modular and easy to extend and adapt. In addition to its "native" OpenStack API it also supports the Amazon EC2 API and it supports many different database backends (including SQLite MySQL and PostgreSQL) hypervisors (KVM Xen) and user directory systems (LDAP SQL). . This is a dependency package for compute nodes using QEmu."	Apache-2.0			

Package name	Source	Package Description	Package License	Encryption types	Encryption Max Key Length	Comment
ceph-fuse	ceph	"FUSE-based client for the Ceph distributed file system Ceph is a distributed network file system designed to provide excellent performance reliability and scalability. This is a FUSE-based client that allows one to mount a Ceph file system without root privileges. . Because the FUSE-based client has certain inherent performance limitations it is recommended that the native Linux kernel client be used if possible. If it is not practical to load a kernel module (insufficient privileges older kernel etc.) then the FUSE client will do."	GPL-2.0+ GPL-2.0 GPL-3.0 LGPL-2.0 LGPL-2.1 BSD-2-Clause BSD-3-Clause Public Domain Apache-2.0	crush	unlimited	cephhash
ceph-fuse	ceph	"FUSE-based client for the Ceph distributed file system Ceph is a distributed network file system designed to provide excellent performance reliability and scalability. This is a FUSE-based client that allows one to mount a Ceph file system without root privileges. . Because the FUSE-based client has certain inherent performance limitations it is recommended that the native Linux kernel client be used if possible. If it is not practical to load a kernel module (insufficient privileges older kernel etc.) then the FUSE client will do."	GPL-2.0+ GPL-2.0 GPL-3.0 LGPL-2.0 LGPL-2.1 BSD-2-Clause BSD-3-Clause Public Domain Apache-2.0	sha	512	
ceph-fuse	ceph	"FUSE-based client for the Ceph distributed file system Ceph is a distributed network file system designed to provide excellent performance reliability and scalability. This is a FUSE-based client that allows one to mount a Ceph file system without root privileges. . Because the FUSE-based client has certain inherent performance limitations it is recommended that the native Linux kernel client be used if possible. If it is not practical to load a kernel module (insufficient privileges older kernel etc.) then the FUSE client will do."	GPL-2.0+ GPL-2.0 GPL-3.0 LGPL-2.0 LGPL-2.1 BSD-2-Clause BSD-3-Clause Public Domain Apache-2.0	aes	256	
ceph-fuse	ceph	"FUSE-based client for the Ceph distributed file system Ceph is a distributed network file system designed to provide excellent performance reliability and scalability. This is a FUSE-based client that allows one to mount a Ceph file system without root privileges. . Because the FUSE-based client has certain inherent performance limitations it is recommended that the native Linux kernel client be used if possible. If it is not practical to load a kernel module (insufficient privileges older kernel etc.) then the FUSE client will do."	GPL-2.0+ GPL-2.0 GPL-3.0 LGPL-2.0 LGPL-2.1 BSD-2-Clause BSD-3-Clause Public Domain Apache-2.0	abacus	0	
ceph-fuse	ceph	"FUSE-based client for the Ceph distributed file system Ceph is a distributed network file system designed to provide excellent performance reliability and scalability. This is a FUSE-based client that allows one to mount a Ceph file system without root privileges. . Because the FUSE-based client has certain inherent performance limitations it is recommended that the native Linux kernel client be used if possible. If it is not practical to load a kernel module (insufficient privileges older kernel etc.) then the FUSE client will do."	GPL-2.0+ GPL-2.0 GPL-3.0 LGPL-2.0 LGPL-2.1 BSD-2-Clause BSD-3-Clause Public Domain Apache-2.0	md5	128	
python-cryptography-vectors	python-cryptography-vectors	"Test vectors for python-cryptography (Python 2) The test vectors for the cryptography library are rather large; thus they are broken out into their own package so that users who do not need to run the tests do not need to download and install them. . This package contains the Python 2 version of cryptography_vectors."	Apache-2.0			

Package name	Source	Package Description	Package License	Encryption types	Encryption Max Key Length	Comment
python3-suds	suds	"Lightweight SOAP client for Python - Python 3.x The suds project is a Python soap web services client lib. Suds leverages Python meta programming to provide an intuitive API for consuming web services. Objectification of types defined in the WSDL is provided without class generation. Programmers rarely need to read the WSDL since services and WSDL based objects can be easily inspected. Supports pluggable soap bindings. Note: this package now uses the Suds fork maintained by Jurko Gospodneti?. . This package provides the Python 3.x module."	Unknown			
golang-src	golang	"Go programming language - source files The Go programming language is an open source project to make programmers more productive. Go is expressive concise clean and efficient. Its concurrency mechanisms make it easy to write programs that get the most out of multicore and networked machines while its novel type system enables flexible and modular program construction. Go compiles quickly to machine code yet has the convenience of garbage collection and the power of run-time reflection. It's a fast statically typed compiled language that feels like a dynamically typed interpreted language. . This package provides the Go programming language source files needed for cross-compilation."	Public Domain Apache-2.0	aes	256	
golang-src	golang	"Go programming language - source files The Go programming language is an open source project to make programmers more productive. Go is expressive concise clean and efficient. Its concurrency mechanisms make it easy to write programs that get the most out of multicore and networked machines while its novel type system enables flexible and modular program construction. Go compiles quickly to machine code yet has the convenience of garbage collection and the power of run-time reflection. It's a fast statically typed compiled language that feels like a dynamically typed interpreted language. . This package provides the Go programming language source files needed for cross-compilation."	Public Domain Apache-2.0	rc4	2048	
golang-src	golang	"Go programming language - source files The Go programming language is an open source project to make programmers more productive. Go is expressive concise clean and efficient. Its concurrency mechanisms make it easy to write programs that get the most out of multicore and networked machines while its novel type system enables flexible and modular program construction. Go compiles quickly to machine code yet has the convenience of garbage collection and the power of run-time reflection. It's a fast statically typed compiled language that feels like a dynamically typed interpreted language. . This package provides the Go programming language source files needed for cross-compilation."	Public Domain Apache-2.0	crypt	65	



Package name	Source	Package Description	Package License	Encryption types	Encryption Max Key Length	Comment
golang-src	golang	"Go programming language - source files The Go programming language is an open source project to make programmers more productive. Go is expressive concise clean and efficient. Its concurrency mechanisms make it easy to write programs that get the most out of multicore and networked machines while its novel type system enables flexible and modular program construction. Go compiles quickly to machine code yet has the convenience of garbage collection and the power of run-time reflection. It's a fast statically typed compiled language that feels like a dynamically typed interpreted language. . This package provides the Go programming language source files needed for cross-compilation."	Public Domain Apache-2.0	des	56	
golang-src	golang	"Go programming language - source files The Go programming language is an open source project to make programmers more productive. Go is expressive concise clean and efficient. Its concurrency mechanisms make it easy to write programs that get the most out of multicore and networked machines while its novel type system enables flexible and modular program construction. Go compiles quickly to machine code yet has the convenience of garbage collection and the power of run-time reflection. It's a fast statically typed compiled language that feels like a dynamically typed interpreted language. . This package provides the Go programming language source files needed for cross-compilation."	Public Domain Apache-2.0	rsa	unlimited	typically <=8192
golang-src	golang	"Go programming language - source files The Go programming language is an open source project to make programmers more productive. Go is expressive concise clean and efficient. Its concurrency mechanisms make it easy to write programs that get the most out of multicore and networked machines while its novel type system enables flexible and modular program construction. Go compiles quickly to machine code yet has the convenience of garbage collection and the power of run-time reflection. It's a fast statically typed compiled language that feels like a dynamically typed interpreted language. . This package provides the Go programming language source files needed for cross-compilation."	Public Domain Apache-2.0	shacal	User Specified	
golang-src	golang	"Go programming language - source files The Go programming language is an open source project to make programmers more productive. Go is expressive concise clean and efficient. Its concurrency mechanisms make it easy to write programs that get the most out of multicore and networked machines while its novel type system enables flexible and modular program construction. Go compiles quickly to machine code yet has the convenience of garbage collection and the power of run-time reflection. It's a fast statically typed compiled language that feels like a dynamically typed interpreted language. . This package provides the Go programming language source files needed for cross-compilation."	Public Domain Apache-2.0	sha	512	

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golang-src	golang	"Go programming language - source files The Go programming language is an open source project to make programmers more productive. Go is expressive concise clean and efficient. Its concurrency mechanisms make it easy to write programs that get the most out of multicore and networked machines while its novel type system enables flexible and modular program construction. Go compiles quickly to machine code yet has the convenience of garbage collection and the power of run-time reflection. It's a fast statically typed compiled language that feels like a dynamically typed interpreted language. . This package provides the Go programming language source files needed for cross-compilation."	Public Domain Apache-2.0	md5	128	
erlang-base-hipe	erlang	"Erlang/OTP HiPE enabled virtual machine and base applications This package contains the Erlang/OTP runtime implementation which is configured and built with HiPE support (allows compiling to native code) and minimal set of Erlang applications: compiler - compiles Erlang code to byte-code; erts - the Erlang runtime system application; kernel - code necessary to run the Erlang runtime system itself; ose - code for Enea OSE operating system; sasl - the system architecture support libraries application; stdlib - modules for manipulating lists strings files etc."	LGPL-2.1 Apache-2.0	aes	256	
erlang-base-hipe	erlang	"Erlang/OTP HiPE enabled virtual machine and base applications This package contains the Erlang/OTP runtime implementation which is configured and built with HiPE support (allows compiling to native code) and minimal set of Erlang applications: compiler - compiles Erlang code to byte-code; erts - the Erlang runtime system application; kernel - code necessary to run the Erlang runtime system itself; ose - code for Enea OSE operating system; sasl - the system architecture support libraries application; stdlib - modules for manipulating lists strings files etc."	LGPL-2.1 Apache-2.0	diffiehellman	unlimited	

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erlang-base-hipe	erlang	"Erlang/OTP HiPE enabled virtual machine and base applications This package contains the Erlang/OTP runtime implementation which is configured and built with HiPE support (allows compiling to native code) and minimal set of Erlang applications: compiler - compiles Erlang code to byte-code; erts - the Erlang runtime system application; kernel - code necessary to run the Erlang runtime system itself; ose - code for Enea OSE operating system; sasl - the system architecture support libraries application; stdlib - modules for manipulating lists strings files etc."	LGPL-2.1 Apache-2.0	sha	512	
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python-jsonpath-rw-ext	python-jsonpath-rw-ext	"extensions for JSONPath RW - Python 2.x Jsonpath-rw-ext extends json-path-rw capabilities by adding multiple extensions: 'len' that allows one to get the length of a list. 'sorted' that returns a sorted version of a list 'arithmetic' that permits one to make math operation between elements and 'filter' to select only certain elements of a list. . This package contains the Python 2.x module."	Apache-2.0			
libnl-3-200	libnl3	"library for dealing with netlink sockets This is a library for applications dealing with netlink sockets. The library provides an interface for raw netlink messaging and various netlink family specific interfaces."	GPL-2.0 LGPL-2.1			
python3-mysqldb-dbg	python-mysqldb	"Python interface to MySQL (debug extension) Mysqldb is an interface to the popular MySQL database server for Python. . This is a fork of MySQLdb. It add Python 3.3 support and merges some pull requests. . This package contains modules for all Python 3.x versions supported in Debian built for Python debug interpreter."	GPL-2.0+ GPL-2.0			

Package name	Source	Package Description	Package License	Encryption types	Encryption Max Key Length	Comment
python-pathlib	python-pathlib	"set of Python 2 classes to handle filesystem paths Pathlib offers a set of classes to handle filesystem paths. It offers the following advantages over using string objects: . * No more cumbersome use of os and os.path functions. Everything can be done easily through operators attribute accesses and method calls. * Embodies the semantics of different path types. For example comparing Windows paths ignores casing. * Well-defined semantics eliminating any warts or ambiguities (forward vs. backward slashes etc.). . This is the Python 2 version of the package."	MIT			
libcorosync-common4	corosync	"Standards-based cluster framework common library Corosync is a project to implement a production quality "Revised BSD" licensed implementation of all core functionalities required by openais. The project implements cutting edge research on virtual synchrony to provide 100% correct operation in the face of failures or partitionable networks with excellent performance characteristics. . The Application Interface Specification is a software API and policies which are used to develop applications that maintain service during faults. . This package contains the common corosync library which is a library included in Corosync."	Public Domain			
python-pysaml2-doc	python-pysaml2	"SAML Version 2 to be used in a WSGI environment - doc This package provides a Python implementation of SAML Version 2 to be used in a WSGI environment. . From wikipedia: Security Assertion Markup Language 2.0 (SAML 2.0) is a version of the SAML standard for exchanging authentication and authorization data between security domains. SAML 2.0 is an XML-based protocol that uses security tokens containing assertions to pass information about a principal (usually an end user) between a SAML authority that is an identity provider and a SAML consumer that is a service provider. SAML 2.0 enables web-based authentication and authorization scenarios including cross-domain single sign-on (SSO) which helps reduce the administrative overhead of distributing multiple authentication tokens to the user. . This package contains the documentation."	BSD-2-Clause Apache-2.0			
python3-oslo.messaging	python-oslo.messaging	"oslo messaging library - Python 3.x The oslo.messaging API supports RPC and notifications over a number of different messaging transports. . Oslo is a set of libraries developed for OpenStack. . This package provides the Python 3.x module."	Apache-2.0			
erlang-gs	erlang	"Erlang/OTP graphics system The Graphics System application GS is a library of routines for writing graphical user interfaces. Programs written using GS work on all Erlang platforms and do not depend upon the underlying windowing system. It uses Tk widgets for visualization."	LGPL-2.1 Apache-2.0	aes	256	
erlang-gs	erlang	"Erlang/OTP graphics system The Graphics System application GS is a library of routines for writing graphical user interfaces. Programs written using GS work on all Erlang platforms and do not depend upon the underlying windowing system. It uses Tk widgets for visualization."	LGPL-2.1 Apache-2.0	diffiehellman	unlimited	
erlang-gs	erlang	"Erlang/OTP graphics system The Graphics System application GS is a library of routines for writing graphical user interfaces. Programs written using GS work on all Erlang platforms and do not depend upon the underlying windowing system. It uses Tk widgets for visualization."	LGPL-2.1 Apache-2.0	blowfish	448	

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erlang-gs	erlang	"Erlang/OTP graphics system The Graphics System application GS is a library of routines for writing graphical user interfaces. Programs written using GS work on all Erlang platforms and do not depend upon the underlying windowing system. It uses Tk widgets for visualization."	LGPL-2.1 Apache-2.0	hmac	160	
erlang-gs	erlang	"Erlang/OTP graphics system The Graphics System application GS is a library of routines for writing graphical user interfaces. Programs written using GS work on all Erlang platforms and do not depend upon the underlying windowing system. It uses Tk widgets for visualization."	LGPL-2.1 Apache-2.0	md5	128	
python3-xvfbwrapper	python-xvfbwrapper	"headless display inside Xvfb - Python 3.x Python wrapper for running a display inside X virtual framebuffer (Xvfb). . In the X Window System Xvfb or X Virtual FrameBuffer is an X11 server that performs all graphical operations in memory not showing any screen output. This virtual server does not require the computer to run or to even have a screen or an input device. Only a network layer is necessary. . This package contains the Python 3.x module."	Unknown			
python3-keystoneauth1	python-keystoneauth1	"authentication library for OpenStack Identity - Python 3.x Keystoneauth is a library that contains tools for authenticating with OpenStack Clients. These tools include: authentication plugins (password token and federation based); discovery mechanisms to determine version support for OpenStack clouds; and a session used to maintain client settings across requests. It is designed for use in conjunction with the existing OpenStack clients and for simplifying the process of writing new clients. . This package contains the Python 3.x module."	Apache-2.0			
be2net-dkms	be2net-dkms	"be2net driver in DKMS format."	unknown			
python-elasticsearch	python-elasticsearch	"Python client for Elasticsearch Official low-level client for Elasticsearch. Its goal is to provide common ground for all Elasticsearch-related code in Python; because of this it tries to be opinion-free and very extendable. . The client's features include: * translating basic Python data types to and from json (datetimes are not decoded for performance reasons) * configurable automatic discovery of cluster nodes * persistent connections * load balancing (with pluggable selection strategy) across all available nodes * failed connection penalization (time based - failed connections won't be retried until a timeout is reached) * thread safety * pluggable architecture"	Apache-2.0			
python3-pkginfo	python-pkginfo	"Python 3.x module to query metadata from packages This package provides an API for querying the distutils metadata written in the PKG-INFO file inside a source distribution (an sdist) or into the EGG-INFO directory of an installed distribution. . This package contains the Python 3 version of the library In addition this package contains the 'pkginfo' executable"	MIT			

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python-requests-mock-doc	python-requests-mock	"mock out responses from the requests package - doc requests-mock provides a building block to stub out the HTTP requests_ portions of your testing code. Everything in requests_ eventually goes through an adapter to do the transport work. requests-mock creates a custom adatper that allows you to predefine responses when certain URIs are called. There are then a number of methods provided to get the adapter used. . This package contains the documentation."	Apache-2.0			
python-oslo.policy	python-oslo.policy	"RBAC policy enforcement library for OpenStack - Python 2.x Oslo.policy provides a Role Based Access Control policy enforcement library for OpenStack. . This package contains the Python 2.x module."	Apache-2.0			
python3-tempest-lib	python-tempest-lib	"OpenStack Functional Testing Library - Python 3.x This package contains the OpenStack Functional Testing Library which is used by the Tempest Functional Testing suite. . This package contains the Python 3.x module."	Apache-2.0			
python-setuptools-scm	setuptools-scm	"blessed package to manage your versions by scm tags for Python 2 setuptools_scm handles managing your Python package versions in scm metadata. It also handles file finders for the suppertes scm's. . This package installs the library for Python 2."	Unknown			
python-gitdb	python-gitdb	"pure-Python git object database (Python 2) The GitDB project implements interfaces to allow read and write access to git repositories. In its core lies the db package which contains all database types necessary to read a complete git repository. These are the LooseObjectDB the PackedDB and the ReferenceDB which are combined into the GitDB to combine every aspect of the git database. . This package for Python 2."	BSD-3-Clause			
puppet	puppet	"configuration management system agent Puppet is a server automation tool. It is composed of a declarative language for expressing system configuration a client and server for distributing it and a library for realizing the configuration. . The primary design goal of Puppet is to have an expressive enough language backed by a powerful enough library that you can write your own server automation applications in just a few lines of code. Puppet?s deep extensibility and open source license lets you add functionality as needed and share your innovations with others. . This package contains "puppet" service and init script used to run the puppet agent and depend on the "puppet-common" package which contains the software."	GPL-2.0+ GPL-2.0 BSD-3-Clause MIT Public Domain Apache-2.0			
dpdk-dkms	dpdk	"Data Plane Development Kit DPDK is a set of libraries and drivers for fast packet processing. It was designed to run on any processors knowing Intel x86 has been the first CPU to be supported."	LGPL-2.1 BSD	sha	512	
dpdk-dkms	dpdk	"Data Plane Development Kit DPDK is a set of libraries and drivers for fast packet processing. It was designed to run on any processors knowing Intel x86 has been the first CPU to be supported."	LGPL-2.1 BSD	ripemd	160	
dpdk-dkms	dpdk	"Data Plane Development Kit DPDK is a set of libraries and drivers for fast packet processing. It was designed to run on any processors knowing Intel x86 has been the first CPU to be supported."	LGPL-2.1 BSD	hmac	160	
dpdk-dkms	dpdk	"Data Plane Development Kit DPDK is a set of libraries and drivers for fast packet processing. It was designed to run on any processors knowing Intel x86 has been the first CPU to be supported."	LGPL-2.1 BSD	md5	128	

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python-googleapi	python-googleapi	"Google APIs Client Library - Python 2.x This package contains the Google APIs Client Library for Python which is the core Python library for accessing. Samples are available in the python-googleapi-samples package. . This package provides the Python 2.x module."	GPL-3.0 Apache-2.0			
kolla-doc	kolla	"containers and deployment tools for operating OpenStack clouds - docs Kolla provides production-ready containers and deployment tools for operating OpenStack clouds. It provides Docker containers and Ansible playbooks to meet its mission. Kolla is highly opinionated out of the box but allows for complete customization. This permits operators with little experience to deploy OpenStack quickly and as experience grows modify the OpenStack configuration to suit the operator's exact requirements. . This package provides the documentation."	Apache-2.0			
<a href="#">python-oslo.db</a>	<a href="#">python-oslo.db</a>	"database connectivity to the different backends and helper utils - Python 2.x The Oslo database handling library is part of the OpenStack project. It provides database connectivity to the different backends and also provides helper utils. . This package contains the Python 2.x module."	Apache-2.0			
python-sqlalchemy-utils	python-sqlalchemy-utils	"various utility functions for SQLAlchemy - Python 2.x Various utility functions and custom data types for SQLAlchemy. . SQLAlchemy is an SQL database abstraction library for Python. . This package contains the Python 2.x module."	BSD-3-Clause			
libcacard-dev	qemu	"Virtual Common Access Card (CAC) Emulator (development files) This emulator is designed to provide emulation of actual smart cards to a virtual card reader running in a guest virtual machine. The emulated smart cards can be representations of real smart cards where the necessary functions such as signing card removal/insertion etc. are mapped to real physical cards which are shared with the client machine the emulator is running on or the cards could be pure software constructs. . This package provides files necessary to develop programs using the library."	GPL-2.0 MIT	crypt	65	
libcacard-dev	qemu	"Virtual Common Access Card (CAC) Emulator (development files) This emulator is designed to provide emulation of actual smart cards to a virtual card reader running in a guest virtual machine. The emulated smart cards can be representations of real smart cards where the necessary functions such as signing card removal/insertion etc. are mapped to real physical cards which are shared with the client machine the emulator is running on or the cards could be pure software constructs. . This package provides files necessary to develop programs using the library."	GPL-2.0 MIT	aes	256	
libcacard-dev	qemu	"Virtual Common Access Card (CAC) Emulator (development files) This emulator is designed to provide emulation of actual smart cards to a virtual card reader running in a guest virtual machine. The emulated smart cards can be representations of real smart cards where the necessary functions such as signing card removal/insertion etc. are mapped to real physical cards which are shared with the client machine the emulator is running on or the cards could be pure software constructs. . This package provides files necessary to develop programs using the library."	GPL-2.0 MIT	des	56	

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libcacard-dev	qemu	"Virtual Common Access Card (CAC) Emulator (development files) This emulator is designed to provide emulation of actual smart cards to a virtual card reader running in a guest virtual machine. The emulated smart cards can be representations of real smart cards where the necessary functions such as signing card removal/insertion etc. are mapped to real physical cards which are shared with the client machine the emulator is running on or the cards could be pure software constructs. . This package provides files necessary to develop programs using the library."	GPL-2.0 MIT	sha	512	
python-paramiko	paramiko	"Make ssh v2 connections with Python (Python 2) This is a library for making SSH2 connections (client or server). Emphasis is on using SSH2 as an alternative to SSL for making secure connections between Python scripts. All major ciphers and hash methods are supported. SFTP client and server mode are both supported too. . This is the Python 2 version of the package."	GPL-2.0 LGPL-2.1	rsa	unlimited	typically <=8192
librarian-puppet-simple	librarian-puppet-simple	"simple version of librarian-puppet with most of its commands librarian-puppet-simple was created out of its author's frustration with the dependency management in librarian-puppet. Librarian-puppet offers to simplify deployment of a Puppet infrastructure by automatically pulling in modules from the forge and git repositories with a single command. This package only allows one to pin revisions for a collection of modules and it is also less heavy than librarian-puppet. . librarian-puppet-simple has fewer commands but they should be compatible with the original librarian-puppet. . Note that you cannot currently install both librarian-puppet and librarian-puppet-simple at the same time."	Apache-2.0			
python-futurist	python-futurist	"useful additions to futures from the future - Python 2.x Code from the future delivered to you in the now. For example: * A futurist.GreenThreadPoolExecutor using eventlet green thread pools. It provides a standard executor API/interface and it also gathers execution statistics. * A futurist.ProcessPoolExecutor derivative that gathers execution statistics. * A futurist.SynchronousExecutor that doesn?t run concurrently. It has the same executor API/interface and it also gathers execution statistics. * A futurist.ThreadPoolExecutor derivative that gathers execution statistics. * A futurist.periodics.PeriodicWorker that can use the previously mentioned executors to run asynchronous work periodically in parallel or synchronously. * etc. . This package contains the Python 2.x module."	Apache-2.0			



Package name	Source	Package Description	Package License	Encryption types	Encryption Max Key Length	Comment
python3-xstatic-angular	python-xstatic-angular	"Angular JS XStatic support - Python 3.x XStatic is a packaging standard to package external (often 3rd party) static files as a Python package so they are easily usable on all operating systems with any package management system or even without one. . Many Python projects need to use some specific data files like javascript css java applets images etc. Sometimes these files belong to YOUR project (then you may want to package them separately but you could also just put them into your main package). But in many other cases those files are maintained by someone else (like jQuery javascript library or even much bigger js libraries or applications) and you definitely do not really want to merge them into your project. So you want to have static file packages but you don't want to get lots of stuff you do not want. Thus stuff required by XStatic file packages (especially the main toplevel XStatic package) tries to obey to be a MINIMAL no-fat thing. XStatic doesn't "sell" any web framework or other stuff you don't want. Maybe there will be optional XStatic extensions for all sorts of stuff but they won't be required if you just want the files. . By having static files in packages it is also easier to build virtual envs support linux/bsd/... distribution package maintainers and even windows installs using the same mechanism. . This package provides Angular JS support as a Python 3.x module."	Unknown			
erlang-reltool	erlang	"Erlang/OTP release management tool Reltool is a release management tool. It analyses a given Erlang/OTP installation and determines dependencies between applications. The graphical frontend depicts the dependencies and enables interactive customization of a target system. The backend provides a batch interface for generation of customized target systems."	LGPL-2.1 Apache-2.0	aes	256	
erlang-reltool	erlang	"Erlang/OTP release management tool Reltool is a release management tool. It analyses a given Erlang/OTP installation and determines dependencies between applications. The graphical frontend depicts the dependencies and enables interactive customization of a target system. The backend provides a batch interface for generation of customized target systems."	LGPL-2.1 Apache-2.0	diffiehellman	unlimited	
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libradosstriper1	ceph	"RADOS striping interface Striping interface built on top of the rados library allowing to stripe bigger objects onto several standard rados objects using an interface very similar to the rados one."	GPL-2.0+ GPL-2.0 GPL-3.0 LGPL-2.0 LGPL-2.1 BSD-2-Clause BSD-3-Clause Public Domain Apache-2.0	crush	unlimited	cephhash
libradosstriper1	ceph	"RADOS striping interface Striping interface built on top of the rados library allowing to stripe bigger objects onto several standard rados objects using an interface very similar to the rados one."	GPL-2.0+ GPL-2.0 GPL-3.0 LGPL-2.0 LGPL-2.1 BSD-2-Clause BSD-3-Clause Public Domain Apache-2.0	sha	512	
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libradosstriper1	ceph	"RADOS striping interface Striping interface built on top of the rados library allowing to stripe bigger objects onto several standard rados objects using an interface very similar to the rados one."	GPL-2.0+ GPL-2.0 GPL-3.0 LGPL-2.0 LGPL-2.1 BSD-2-Clause BSD-3-Clause Public Domain Apache-2.0	md5	128	
erlang-syntax-tools	erlang	"Erlang/OTP modules for handling abstract Erlang syntax trees Syntax_Tools contains modules for handling abstract Erlang syntax trees in a way that is compatible with the "parse trees" of the STDLIB module erl_parse together with utilities for reading source files in unusual ways and pretty-printing syntax trees. Also it includes a module merger and renamer called Igor as well as an automatic code-cleaner."	LGPL-2.1 Apache-2.0	aes	256	
erlang-syntax-tools	erlang	"Erlang/OTP modules for handling abstract Erlang syntax trees Syntax_Tools contains modules for handling abstract Erlang syntax trees in a way that is compatible with the "parse trees" of the STDLIB module erl_parse together with utilities for reading source files in unusual ways and pretty-printing syntax trees. Also it includes a module merger and renamer called Igor as well as an automatic code-cleaner."	LGPL-2.1 Apache-2.0	diffiehellman	unlimited	
erlang-syntax-tools	erlang	"Erlang/OTP modules for handling abstract Erlang syntax trees Syntax_Tools contains modules for handling abstract Erlang syntax trees in a way that is compatible with the "parse trees" of the STDLIB module erl_parse together with utilities for reading source files in unusual ways and pretty-printing syntax trees. Also it includes a module merger and renamer called Igor as well as an automatic code-cleaner."	LGPL-2.1 Apache-2.0	blowfish	448	
erlang-syntax-tools	erlang	"Erlang/OTP modules for handling abstract Erlang syntax trees Syntax_Tools contains modules for handling abstract Erlang syntax trees in a way that is compatible with the "parse trees" of the STDLIB module erl_parse together with utilities for reading source files in unusual ways and pretty-printing syntax trees. Also it includes a module merger and renamer called Igor as well as an automatic code-cleaner."	LGPL-2.1 Apache-2.0	sha	512	

Package name	Source	Package Description	Package License	Encryption types	Encryption Max Key Length	Comment
erlang-syntax-tools	erlang	"Erlang/OTP modules for handling abstract Erlang syntax trees Syntax_Tools contains modules for handling abstract Erlang syntax trees in a way that is compatible with the "parse trees" of the STDLIB module erl_parse together with utilities for reading source files in unusual ways and pretty-printing syntax trees. Also it includes a module merger and renamer called Igor as well as an automatic code-cleaner."	LGPL-2.1 Apache-2.0	hmac	160	
erlang-syntax-tools	erlang	"Erlang/OTP modules for handling abstract Erlang syntax trees Syntax_Tools contains modules for handling abstract Erlang syntax trees in a way that is compatible with the "parse trees" of the STDLIB module erl_parse together with utilities for reading source files in unusual ways and pretty-printing syntax trees. Also it includes a module merger and renamer called Igor as well as an automatic code-cleaner."	LGPL-2.1 Apache-2.0	md5	128	
python-mysqldb	python-mysqldb	"Python interface to MySQL Mysqlclient is an interface to the popular MySQL database server for Python. . This is a fork of MySQLdb. It add Python 3.3 support and merges some pull requests. . This package contains modules for all Python 2.x versions supported in Debian."	GPL-2.0+ GPL-2.0			
python-oauth2client	python-oauth2client	"OAuth 2.0 client library - Python 2.7 The oauth2client is a client library for OAuth 2.0. . OAuth is an open standard for authorization. OAuth provides a method for clients to access server resources on behalf of a resource owner (such as a different client or an end-user). It also provides a process for end-users to authorize third-party access to their server resources without sharing their credentials (typically a username and password pair) using user-agent redirections. . OAuth is a service that is complementary to and therefore distinct from OpenID. OAuth is also distinct from OATH which is a reference architecture for authentication (i.e. not a standard). . This package provides the Python 2.7 module."	Apache-2.0			
erlang-ssl	erlang	"Erlang/OTP implementation of SSL The SSL application provides secure communication over sockets."	LGPL-2.1 Apache-2.0	aes	256	
erlang-ssl	erlang	"Erlang/OTP implementation of SSL The SSL application provides secure communication over sockets."	LGPL-2.1 Apache-2.0	diffiehellman	unlimited	
erlang-ssl	erlang	"Erlang/OTP implementation of SSL The SSL application provides secure communication over sockets."	LGPL-2.1 Apache-2.0	blowfish	448	
erlang-ssl	erlang	"Erlang/OTP implementation of SSL The SSL application provides secure communication over sockets."	LGPL-2.1 Apache-2.0	sha	512	
erlang-ssl	erlang	"Erlang/OTP implementation of SSL The SSL application provides secure communication over sockets."	LGPL-2.1 Apache-2.0	hmac	160	
erlang-ssl	erlang	"Erlang/OTP implementation of SSL The SSL application provides secure communication over sockets."	LGPL-2.1 Apache-2.0	md5	128	
erlang-ssh	erlang	"Erlang/OTP implementation of SSH protocol The SSH application is an erlang implementation of the secure shell protocol."	LGPL-2.1 Apache-2.0	aes	256	
erlang-ssh	erlang	"Erlang/OTP implementation of SSH protocol The SSH application is an erlang implementation of the secure shell protocol."	LGPL-2.1 Apache-2.0	diffiehellman	unlimited	
erlang-ssh	erlang	"Erlang/OTP implementation of SSH protocol The SSH application is an erlang implementation of the secure shell protocol."	LGPL-2.1 Apache-2.0	blowfish	448	
erlang-ssh	erlang	"Erlang/OTP implementation of SSH protocol The SSH application is an erlang implementation of the secure shell protocol."	LGPL-2.1 Apache-2.0	sha	512	
erlang-ssh	erlang	"Erlang/OTP implementation of SSH protocol The SSH application is an erlang implementation of the secure shell protocol."	LGPL-2.1 Apache-2.0	hmac	160	

Package name	Source	Package Description	Package License	Encryption types	Encryption Max Key Length	Comment
erlang-ssh	erlang	"Erlang/OTP implementation of SSH protocol The SSH application is an erlang implementation of the secure shell protocol."	LGPL-2.1 Apache-2.0	md5	128	
python-oslo-db	<a href="#">python-oslo.db</a>	"transitional dummy package for python-oslo-db This transitional package is safe to remove."	Apache-2.0			
ironic-common	ironic	"bare metal hypervisor API for OpenStack - common files Ironic provision bare metal machines instead of virtual machines. It is a fork of the Nova Baremetal driver. It is best thought of as a bare metal hypervisor API and a set of plugins which interact with the bare metal hypervisors. By default it will use PXE and IPMI in concert to provision and turn on/off machines but Ironic also supports vendor-specific plugins which may implement additional functionality. . This package provides the Ironic common files."	Apache-2.0			
libdpdk0	dpdk	"Data Plane Development Kit (runtime libraries) DPDK is a set of libraries for fast packet processing. Applications run in user-space and communicate directly with dedicated network interfaces. This package contains the runtime libraries which require at least SSE3 support in the CPU."	LGPL-2.1 BSD	sha	512	
libdpdk0	dpdk	"Data Plane Development Kit (runtime libraries) DPDK is a set of libraries for fast packet processing. Applications run in user-space and communicate directly with dedicated network interfaces. This package contains the runtime libraries which require at least SSE3 support in the CPU."	LGPL-2.1 BSD	ripemd	160	
libdpdk0	dpdk	"Data Plane Development Kit (runtime libraries) DPDK is a set of libraries for fast packet processing. Applications run in user-space and communicate directly with dedicated network interfaces. This package contains the runtime libraries which require at least SSE3 support in the CPU."	LGPL-2.1 BSD	hmac	160	
libdpdk0	dpdk	"Data Plane Development Kit (runtime libraries) DPDK is a set of libraries for fast packet processing. Applications run in user-space and communicate directly with dedicated network interfaces. This package contains the runtime libraries which require at least SSE3 support in the CPU."	LGPL-2.1 BSD	md5	128	
libstonithd-dev	pacemaker	"cluster resource manager STONITH daemon library development At its core Pacemaker is a distributed finite state machine capable of co-ordinating the startup and recovery of inter-related services across a set of machines. . Pacemaker understands many different resource types (OCF SYSV systemd) and can accurately model the relationships between them (colocation ordering). . It can even use technology such as Docker to automatically isolate the resources managed by the cluster. . This package contains the headers and other necessary files to build applications or libraries that use the STONITH daemon library."	GPL-2.0+ GPL-2.0 LGPL-2.1	md5	128	
python-doc8	python-doc8	"style checker for Sphinx (or other) RST documentation - Python 2.x Doc8 is an opinionated style checker for rst (with basic support for plain text) styles of documentation. . This package contains the Python 2.x module."	Apache-2.0			
python-virtualenv	python-virtualenv	"Python virtual environment creator The virtualenv utility creates virtual Python instances each invocable with its own Python executable. Each instance can have different sets of modules installable via easy_install. Virtual Python instances can also be created without root access. . This is the Python 2 version of the library."	Unknown			

Package name	Source	Package Description	Package License	Encryption types	Encryption Max Key Length	Comment
python3-mysqldb	python-mysqldb	"Python interface to MySQL. Mysqlclient is an interface to the popular MySQL database server for Python. . This is a fork of MySQLdb. It add Python 3.3 support and merges some pull requests. . This package contains modules for all Python 3.x versions supported in Debian."	GPL-2.0+ GPL-2.0			
pycadf-common	python-pycadf	"implementation of DMTF Cloud Audit (CADF) data model - common files pyCADF is an implementation of DMTF Cloud Audit (CADF) data model. DMTF Cloud Management Initiative is promoting the work of the Cloud Management Work Group the Cloud Auditing Data Federation Working Group the System Virtualization Partitioning Clustering Working Group and the Software Entitlement Working Group. See <a href="http://dmtf.org">http://dmtf.org</a> for details. . This package contains the common files for both Python 2.7 and 3.x modules."	Apache-2.0			
python-contextlib2	contextlib2	"Backport and enhancements for the contextlib module - Python 2.7 contextlib2 is a backport of the standard library's contextlib module to earlier Python versions. . It also serves as a real world proving ground for possible future enhancements to the standard library version. . This package contains the Python 2.7 module."	Unknown			
resource-agents-dev	resource-agents	"Cluster Resource Agents Development files The Cluster Resource Agents are a set of scripts to interface with several services to operate in a High Availability environment for both Pacemaker and rgmanager resource managers. . This package contains the development header files."	GPL-2.0+ GPL-2.0 GPL-3.0 LGPL-3.0			
python3-tooz	python-tooz	"coordination library for distributed systems - Python 3.x The Tooz project centralizes the most common distributed primitives like group membership protocol lock service and leader election by providing a coordination API helping developers to build distributed applications. . This package contains the Python 3.x module."	Apache-2.0			
python3-pika	python-pika	"is a RabbitMQ (AMQP-0-9-1) client library for Python. - Python 3.x Pika is a pure-Python implementation of the AMQP 0-9-1 protocol that tries to stay fairly independent of the underlying network support library. Pika was developed primarily for use with RabbitMQ but should also work with other AMQP 0-9-1 brokers. . This package contains the Python 3.x module."	BSD MIT			
neutron-lbaas-doc	neutron-lbaas	"Loadbalancer-as-a-Service driver for OpenStack Neutron Neutron is a virtual network service for Openstack and a part of Netstack. Just like OpenStack Nova provides an API to dynamically request and configure virtual servers Neutron provides an API to dynamically request and configure virtual networks. These networks connect "interfaces" from other OpenStack services (e.g. virtual NICs from Nova VMs). The Neutron API supports extensions to provide advanced network capabilities (e.g. QoS ACLs network monitoring etc.) . This package contains the documentation"	Apache-2.0			
aodh-notifier	aodh	"OpenStack Telemetry (Ceilometer) Alarming - alarm notifier Ceilometer aims to deliver a Single Point Of Contact for billing systems providing all the counters they need to establish customer billing across all current and future OpenStack components. The delivery of counters must be traceable and auditable the counters must be easily extensible to support new projects and agents doing data collections should be independent of the overall system. . (A ceilometer is an instrument that measures cloud coverage.) . This package contains the alarm notifier daemon."	Apache-2.0			

Package name	Source	Package Description	Package License	Encryption types	Encryption Max Key Length	Comment
python-py	python-py	"Advanced Python development support library (Python 2) The Codespeak py lib aims at supporting a decent Python development process addressing deployment versioning and documentation perspectives. It includes: . * py.path: path abstractions over local and Subversion files * py.code: dynamic code compile and traceback printing support . This package provides the Python 2 modules."	Unknown			
python3-pyscss	python-pyscss	"SCSS compiler - Python 3.x pyScss compiles Scss (Sass) a superset of CSS that is more powerful elegant and easier to maintain than plain-vanilla CSS. The library acts as a CSS source code preprocessor which allows you to use variables nested rules mixins and have inheritance of rules all with a CSS-compatible syntax which the preprocessor then compiles to standard CSS. . This package provides the Python 3.x module."	MIT			
python-future-doc	python-future	"Clean single-source support for Python 3 and 2 - doc Future is the missing compatibility layer between Python 2 and Python 3. It allows one to use a single clean Python 3.x-compatible codebase to support both Python 2 and Python 3 with minimal overhead. . The imports have no effect on Python 3. On Python 2 they shadow the corresponding builtins which normally have different semantics on Python 3 versus 2 to provide their Python 3 semantics. . This package contains the documentation."	BSD-2-Clause BSD-3-Clause Public Domain Apache-2.0			
cinder-backup	cinder	"OpenStack block storage system - Backup server Cinder is a block Storage-as-a-Service system for the OpenStack cloud computing suite. It re-implements the features of Nova-volume which it directly replaces. . Cinder uses LVM partitions of your volume servers in order to provide iSCSI permanent block storage devices for your virtual machines running on Nova. It also has back-end drivers for many hardware and software storage solutions like Ceph NFS Net-APP etc. . This package contains the Cinder backup service."	Apache-2.0			
nova-conductor	nova	"OpenStack Compute - conductor service OpenStack is a reliable cloud infrastructure. Its mission is to produce the ubiquitous cloud computing platform that will meet the needs of public and private cloud providers regardless of size by being simple to implement and massively scalable. . OpenStack Compute codenamed Nova is a cloud computing fabric controller designed to be modular and easy to extend and adapt. In addition to its "native" OpenStack API it also supports the Amazon EC2 API and it supports many different database backends (including SQLite MySQL and PostgreSQL) hypervisors (KVM Xen) and user directory systems (LDAP SQL). . This is the Nova conductor service component."	Apache-2.0			
python3-termstyle	python-termstyle	"console colouring for python - Python 3.x Termstyle is a simple Python library for adding coloured output to terminal (console) programs. The definitions come from ECMA-048 the "Control Functions for Coded Character Sets" standard. . This package contains the Python 3.x module."	BSD-3-Clause			

Package name	Source	Package Description	Package License	Encryption types	Encryption Max Key Length	Comment
python3-aodhclient	python-aodhclient	"Python bindings to the OpenStack Aodh API. Aodh provides alarming for OpenStack. The alarming component of Aodh first delivered in the Havana version allows you to set alarms based on threshold evaluation for a collection of samples. An alarm can be set on a single meter or on a combination. For example you may want to trigger an alarm when the memory consumption reaches 70% on a given instance if the instance has been up for more than 10 min. . This package contains the Python 3.x module."	Apache-2.0			
pypy-pyasn1	pyasn1	"ASN.1 library for Python (PyPy module). This is an implementation of ASN.1 types and codecs in Python programming language. It has been first written to support particular protocol (SNMP) but then generalized to be suitable for a wide range of protocols based on ASN.1 specification. . This package contains the PyPy module."	GPL-2.0+ GPL-2.0 BSD-2-Clause			
python-openstack-auth	python-django-openstack-auth	"Django authentication backend for Openstack - transition package. Django authentication backend for use with the OpenStack Keystone Identity backend. This Python module is used by Horizon (the Openstack Dashport web GUI) to auth against Keystone. . This is a transitional package to upgrade to python-django-openstack-auth and it is safe to remove."	Apache-2.0			
python-hacking-doc	python-hacking	"Flake8 OpenStack Hacking Guidelines Enforcement plugins - doc. Hacking is a set of flake8 plugins that test and enforce the OpenStack Style Commandments. It checks that your code matches the coding style which is mandatory for contributing to OpenStack. . This package provides the documentation."	Apache-2.0			
python-docutils	python-docutils	"text processing system for reStructuredText (implemented in Python 2). reStructuredText is an easy-to-read what-you-see-is-what-you-get plaintext markup syntax and parser system. It is useful for in-line program documentation (such as Python docstrings) for quickly creating simple web pages and for standalone documents. . The purpose of the Docutils project is to create a set of tools for processing reStructuredText documentation into useful formats such as HTML LaTeX ODT or Unix manpages. . This package includes Python 2 modules and command line utilities."	GPL-3.0 LGPL-2.1 BSD-2-Clause BSD-3-Clause Public Domain			
python3-oslo-log	python-oslo.log	"transitional dummy package for python3-oslo-log. This transitional package to python3-oslo.log is safe to remove."	Apache-2.0			
python-neutron-lbaas	neutron-lbaas	"Loadbalancer-as-a-Service driver for OpenStack Neutron. Neutron is a virtual network service for Openstack and a part of Netstack. Just like OpenStack Nova provides an API to dynamically request and configure virtual servers. Neutron provides an API to dynamically request and configure virtual networks. These networks connect "interfaces" from other OpenStack services (e.g. virtual NICs from Nova VMs). The Neutron API supports extensions to provide advanced network capabilities (e.g. QoS ACLs network monitoring etc.) . This package provides the Loadbalancer-as-a-Service driver for Neutron."	Apache-2.0			
python-ryu	ryu	"software defined networking framework (Python libs). Ryu is a component-based software defined networking framework. Ryu provides software components with well defined API that make it easy for developers to create new network management and control applications. Ryu supports various protocols for managing network devices such as OpenFlow Netconf OF-config etc. About OpenFlow Ryu supports fully 1.0 1.2 1.3 1.4 and Nicira Extensions. . This package provides the Python library."	MIT Apache-2.0			

Package name	Source	Package Description	Package License	Encryption types	Encryption Max Key Length	Comment
python3-openstackdocstheme	python-openstackdocstheme	"extension support for Sphinx OpenStack doc - Python 3.x Theme and extension support for Sphinx documentation that is published to docs.openstack.org. Intended for use by OpenStack projects. . This package contains the Python 3.x module."	Apache-2.0			
python3-oslo.config	python-oslo.config	"Common code for Openstack Projects (configuration API) - Python 3.x The OpenStack Oslo project provides Python libraries containing infrastructure code shared by OpenStack projects. . The OpenStack Oslo Configuration API supports parsing command line arguments and .ini style configuration files. . This package provides the Python 3.x module."	Apache-2.0			
libvirt0	libvirt	"library for interfacing with different virtualization systems Libvirt is a C toolkit to interact with the virtualization capabilities of recent versions of Linux (and other OSes). The library aims at providing a long term stable C API for different virtualization mechanisms. It currently supports QEMU KVM XEN OpenVZ LXC and VirtualBox."	GPL-2.0 GPL-3.0 LGPL-3.0 MIT	sha	512	
libvirt0	libvirt	"library for interfacing with different virtualization systems Libvirt is a C toolkit to interact with the virtualization capabilities of recent versions of Linux (and other OSes). The library aims at providing a long term stable C API for different virtualization mechanisms. It currently supports QEMU KVM XEN OpenVZ LXC and VirtualBox."	GPL-2.0 GPL-3.0 LGPL-3.0 MIT	md5	128	
python3-bootstrapform	python-django-bootstrap-form	"generate twitter-bootstrap form output for django form - Python 3.x Django bootstrap form generates twitter-bootstrap form output for django form. A simple Django template tag to work with twitter bootstrap. . This package contains the Python 3.x module."	BSD-3-Clause			
erlang-eldap	erlang	"Erlang/OTP LDAP library Eldap is a module which provides a client API to the Lightweight Directory Access Protocol (LDAP)."	LGPL-2.1 Apache-2.0	aes	256	
erlang-eldap	erlang	"Erlang/OTP LDAP library Eldap is a module which provides a client API to the Lightweight Directory Access Protocol (LDAP)."	LGPL-2.1 Apache-2.0	diffiehellman	unlimited	
erlang-eldap	erlang	"Erlang/OTP LDAP library Eldap is a module which provides a client API to the Lightweight Directory Access Protocol (LDAP)."	LGPL-2.1 Apache-2.0	blowfish	448	
erlang-eldap	erlang	"Erlang/OTP LDAP library Eldap is a module which provides a client API to the Lightweight Directory Access Protocol (LDAP)."	LGPL-2.1 Apache-2.0	sha	512	
erlang-eldap	erlang	"Erlang/OTP LDAP library Eldap is a module which provides a client API to the Lightweight Directory Access Protocol (LDAP)."	LGPL-2.1 Apache-2.0	hmac	160	
erlang-eldap	erlang	"Erlang/OTP LDAP library Eldap is a module which provides a client API to the Lightweight Directory Access Protocol (LDAP)."	LGPL-2.1 Apache-2.0	md5	128	



Package name	Source	Package Description	Package License	Encryption types	Encryption Max Key Length	Comment
python-xstatic-qunit	python-xstatic-qunit	"QUnit XStatic support - Python 2.x XStatic is a packaging standard to package external (often 3rd party) static files as a Python package so they are easily usable on all operating systems with any package management system or even without one. . Many Python projects need to use some specific data files like javascript css java applets images etc. Sometimes these files belong to YOUR project (then you may want to package them separately but you could also just put them into your main package). But in many other cases those files are maintained by someone else (like jQuery javascript library or even much bigger js libraries or applications) and you definitely do not really want to merge them into your project. So you want to have static file packages but you don't want to get lots of stuff you do not want. Thus stuff required by XStatic file packages (especially the main toplevel XStatic package) tries to obey to be a MINIMAL no-fat thing. XStatic doesn't "sell" any web framework or other stuff you don't want. Maybe there will be optional XStatic extensions for all sorts of stuff but they won't be required if you just want the files. . By having static files in packages it is also easier to build virtual envs support linux/bsd/... distribution package maintainers and even windows installs using the same mechanism. . This package provides QUnit support as a Python 2.x module."	Unknown			
fonts-roboto-fontface	fonts-roboto-fontface	"largely geometric friendly and open curves font Roboto has a dual nature. It has a mechanical skeleton and the forms are largely geometric. At the same time the font features friendly and open curves. While some grotesks distort their letterforms to force a rigid rhythm Roboto doesn't compromise allowing letters to be settled into their natural width. This makes for a more natural reading rhythm more commonly found in humanist and serif types. . This is the normal family which can be used alongside the Roboto Condensed family and the Roboto Slab family. . This package also provides Css Scss and LESS files to use webfonts from this package."	Apache-2.0			
python-cachecontrol	python-cachecontrol	"caching algorithms in httplib2 for use with requests CacheControl is a port of the caching algorithms in httplib2 for use with requests session object. . It was written because httplib2's better support for caching is often mitigated by its lack of threadsafety. The same is true of requests in terms of caching. . This is the Python 2 library."	Apache-2.0			
golang-gogoprotobuf-dev	golang-gogoprotobuf	"Alternative protocol buffer support for the Go programming language An alternative protocol buffer support for the Go programming language forked from golang-goprotobuf. It is backwards compatible with goprotobuf but provides faster marshalling and unmarshalling and can generate extra helper code tests and benchmarks. . This package contains the source."	BSD-3-Clause			
ceilometer-api	ceilometer	"OpenStack efficient metering counters system (API service) Ceilometer aims to deliver a Single Point Of Contact for billing systems providing all the counters they need to establish customer billing across all current and future OpenStack components. The delivery of counters must be traceable and auditable the counters must be easily extensible to support new projects and agents doing data collections should be independent of the overall system. . (A ceilometer is an instrument that measures cloud coverage.) . This package contains the API service."	Apache-2.0			

Package name	Source	Package Description	Package License	Encryption types	Encryption Max Key Length	Comment
python3-xstatic-rickshaw	python-xstatic-rickshaw	"Rickshaw JS XStatic support - Python 3.x XStatic is a packaging standard to package external (often 3rd party) static files as a Python package so they are easily usable on all operating systems with any package management system or even without one. . Many Python projects need to use some specific data files like javascript css java applets images etc. Sometimes these files belong to YOUR project (then you may want to package them separately but you could also just put them into your main package). But in many other cases those files are maintained by someone else (like jQuery javascript library or even much bigger js libraries or applications) and you definitely do not really want to merge them into your project. So you want to have static file packages but you don't want to get lots of stuff you do not want. Thus stuff required by XStatic file packages (especially the main toplevel XStatic package) tries to obey to be a MINIMAL no-fat thing. XStatic doesn't "sell" any web framework or other stuff you don't want. Maybe there will be optional XStatic extensions for all sorts of stuff but they won't be required if you just want the files. . By having static files in packages it is also easier to build virtual envs support linux/bsd/... distribution package maintainers and even windows installs using the same mechanism. . This package provides Rickshaw JS support as a Python 3.x module."	Unknown			
<a href="#">python-xstatic-term.js</a>	<a href="#">python-xstatic-term.js</a>	"term.js XStatic support - Python 2.x XStatic is a Python web development tool for handling required static data files from external projects such as CSS images and JavaScript. It provides a lightweight infrastructure to manage them via Python modules that your app can depend on in a portable virtualenv-friendly way instead of using embedded copies. . Term.js is a full xterm clone written in javascript. It is a fork from the original work of Fabrice Bellard's javascript vt100 for jslinux (with the author's permission. The original design remains. The terminal itself has been extended to include xterm CSI codes among other features. . This package contains the Python 2.x module."	Apache-2.0			
golang-github-stretchr-testify-dev	golang-testify	"sacred extension to the standard Go testing package Testify is a Go code (golang) set of packages that provide many tools for testifying that code behaves as intended. . Features include: * Easy assertions * Mocking * HTTP response trapping * Testing suite interfaces and functions . This package contains the source."	Apache-2.0			
python-networkx	python-networkx	"tool to create manipulate and study complex networks NetworkX is a Python-based package for the creation manipulation and study of the structure dynamics and functions of complex networks. . The structure of a graph or network is encoded in the edges (connections links ties arcs bonds) between nodes (vertices sites actors). If unqualified by graph it's meant a simple undirected graph i.e. no self-loops and no multiple edges are allowed. By a network it's usually meant a graph with weights (fields properties) on nodes and/or edges. . The potential audience for NetworkX includes: mathematicians physicists biologists computer scientists social scientists."	GPL-3.0 BSD-3-Clause			

Package name	Source	Package Description	Package License	Encryption types	Encryption Max Key Length	Comment
ceph-resource-agents	ceph	"OCF-compliant resource agents for Ceph Ceph is a distributed storage and network file system designed to provide excellent performance reliability and scalability. . This package contains the resource agents (RAs) which integrate Ceph with OCF-compliant cluster resource managers such as Pacemaker."	GPL-2.0+ GPL-2.0 GPL-3.0 LGPL-2.0 LGPL-2.1 BSD-2-Clause BSD-3-Clause Public Domain Apache-2.0	crush	unlimited	cephhash
ceph-resource-agents	ceph	"OCF-compliant resource agents for Ceph Ceph is a distributed storage and network file system designed to provide excellent performance reliability and scalability. . This package contains the resource agents (RAs) which integrate Ceph with OCF-compliant cluster resource managers such as Pacemaker."	GPL-2.0+ GPL-2.0 GPL-3.0 LGPL-2.0 LGPL-2.1 BSD-2-Clause BSD-3-Clause Public Domain Apache-2.0	sha	512	
ceph-resource-agents	ceph	"OCF-compliant resource agents for Ceph Ceph is a distributed storage and network file system designed to provide excellent performance reliability and scalability. . This package contains the resource agents (RAs) which integrate Ceph with OCF-compliant cluster resource managers such as Pacemaker."	GPL-2.0+ GPL-2.0 GPL-3.0 LGPL-2.0 LGPL-2.1 BSD-2-Clause BSD-3-Clause Public Domain Apache-2.0	aes	256	
ceph-resource-agents	ceph	"OCF-compliant resource agents for Ceph Ceph is a distributed storage and network file system designed to provide excellent performance reliability and scalability. . This package contains the resource agents (RAs) which integrate Ceph with OCF-compliant cluster resource managers such as Pacemaker."	GPL-2.0+ GPL-2.0 GPL-3.0 LGPL-2.0 LGPL-2.1 BSD-2-Clause BSD-3-Clause Public Domain Apache-2.0	abacus	0	
ceph-resource-agents	ceph	"OCF-compliant resource agents for Ceph Ceph is a distributed storage and network file system designed to provide excellent performance reliability and scalability. . This package contains the resource agents (RAs) which integrate Ceph with OCF-compliant cluster resource managers such as Pacemaker."	GPL-2.0+ GPL-2.0 GPL-3.0 LGPL-2.0 LGPL-2.1 BSD-2-Clause BSD-3-Clause Public Domain Apache-2.0	md5	128	
kolla-mesos-doc	kolla-mesos	"Kolla-Mesos provides Mesos deployment of Kolla Docker containers to meet Kolla's mission. Kolla-Mesos is highly opinionated out of the box but allows for complete customization. This permits operators with minimal experience to deploy OpenStack quickly and as experience grows modify the OpenStack configuration to suit the operator's exact requirements. . This package provides the documentation."	Apache-2.0			
horizon-doc	horizon	"web application to control an OpenStack cloud - doc The OpenStack Dashboard is a web application to control an OpenStack cloud. It connects to OpenStack services such as Nova Swift or Keystone using the OpenStack REST API just as you would with the command line clients. . This package contains the documentation."	Apache-2.0			
python3-setuptools	python-setuptools	"Python3 Distutils Enhancements Extensions to the python-distutils for large or complex distributions."	Unknown			
python3-oslo.context	python-oslo.context	"WSGI context helpers for OpenStack - Python 3.x The Oslo context library has helpers to maintain useful information about a request context. The request context is usually populated in the WSGI pipeline and used by various modules such as logging. . This package contains the Python 3.x module."	Apache-2.0			

Package name	Source	Package Description	Package License	Encryption types	Encryption Max Key Length	Comment
python3-gunicorn	gunicorn	"Event-based HTTP/WSGI server Green Unicorn (gunicorn) is an HTTP/WSGI server designed to serve fast clients or sleepy applications. That is to say; behind a buffering front-end server such as nginx or lighttpd. . * Optional support for Eventlet Tornado and Gevent to provide asynchronous long-polling ("Comet") connections. * Process management: Gunicorn reaps and restarts workers that die. * Easy integration with Django and Paster compatible applications (Pylons TurboGears 2 etc. * Load balancing via pre-fork and a shared socket * Graceful worker process restarts * Upgrading without losing connections * Decode chunked transfers on-the-fly allowing upload progress notifications or stream-based protocols over HTTP . This is the Python 3 library."	GPL-3.0 BSD MIT			
horizon-vendor-theme	horizon-vendor-theme	"SCSS theme package for horizon"	Apache-2.0			
python3-gitdb	python-gitdb	"pure-Python git object database (Python 3) The GitDB project implements interfaces to allow read and write access to git repositories. In its core lies the db package which contains all database types necessary to read a complete git repository. These are the LooseObjectDB the PackedDB and the ReferenceDB which are combined into the GitDB to combine every aspect of the git database. . This package for Python 3."	BSD-3-Clause			
python-sqlalchemy-doc	sqlalchemy	"documentation for the SQLAlchemy Python library SQLAlchemy is an SQL database abstraction library for Python. . This package contains the documentation for SQLAlchemy in HTML format. It's usable as a comprehensive reference a user guide and a tutorial all-in-one."	Unknown			
python-django-appconf	python-django-appconf	"helper class handling configuration defaults of apps - Python 2.7 Say you have an app with a few defaults which you want to refer to in the app's code without repeating yourself all the time. Django-appconf provides a simple helper class to implement those defaults. . This package provides the Python 2.x module."	BSD-3-Clause			
python-redis	python-redis	"Persistent key-value database with network interface (Python library) Redis is a key-value database in a similar vein to memcache but the dataset is non-volatile. Redis additionally provides native support for atomically manipulating and querying data structures such as lists and sets. . The dataset is stored entirely in memory and periodically flushed to disk. . This package contains Python bindings to Redis."	GPL-3.0 MIT			
libcorosync4	corosync	"Standards-based cluster framework (transitional package) The corosync project is a project to implement a production quality "Revised BSD" licensed implementation of all core functionalities required by openais. The project implements cutting edge research on virtual synchrony to provide 100% correct operation in the face of failures or partitionable networks with excellent performance characteristics. . The Application Interface Specification is a software API and policies which are used to develop applications that maintain service during faults. . This package used to contain the Corosync libraries and remains as a transitional package to pull the real libraries in."	Public Domain			

Package name	Source	Package Description	Package License	Encryption types	Encryption Max Key Length	Comment
python-retrying	python-retrying	"simplifies the task of adding retry behavior - Python 2.x Retrying is an Apache 2.0 licensed general-purpose retrying library written in Python to simplify the task of adding retry behavior to just about anything. . Features: * Generic Decorator API * Specify stop condition (limit by number of attempts) * Specify wait condition (exponential backoff sleeping between attempts) * Customize retrying on Exceptions * Customize retrying on expected returned result . This package contains the Python 2.x module."	Apache-2.0			
python-q-text-as-data	q-text-as-data	"performs SQL-like statements on tabular text data - Python 2.x Q is a command line tool that allows direct execution of SQL-like queries on CSVs/TSVs (and any other tabular text files). Q treats ordinary files as database tables and supports all SQL constructs such as WHERE GROUP BY JOINS etc. It supports automatic column name and column type detection and provides full support for multiple encodings. . This package provides the Python 2 version."	GPL-3.0			
python-pymysql	python-pymysql	"Pure-Python MySQL driver - Python 2.7 This package contains a pure-Python MySQL client library. The goal of PyMySQL is to be a drop-in replacement for MySQLdb and work on CPython PyPy IronPython and Jython. . This package contains the Python 2.7 module."	Unknown			
erlang-asn1	erlang	"Erlang/OTP modules for ASN.1 support The Asn1 application contains modules with compile-time and run-time support for ASN.1 in Erlang/OTP."	LGPL-2.1 Apache-2.0	aes	256	
erlang-asn1	erlang	"Erlang/OTP modules for ASN.1 support The Asn1 application contains modules with compile-time and run-time support for ASN.1 in Erlang/OTP."	LGPL-2.1 Apache-2.0	diffiehellman	unlimited	
erlang-asn1	erlang	"Erlang/OTP modules for ASN.1 support The Asn1 application contains modules with compile-time and run-time support for ASN.1 in Erlang/OTP."	LGPL-2.1 Apache-2.0	blowfish	448	
erlang-asn1	erlang	"Erlang/OTP modules for ASN.1 support The Asn1 application contains modules with compile-time and run-time support for ASN.1 in Erlang/OTP."	LGPL-2.1 Apache-2.0	sha	512	
erlang-asn1	erlang	"Erlang/OTP modules for ASN.1 support The Asn1 application contains modules with compile-time and run-time support for ASN.1 in Erlang/OTP."	LGPL-2.1 Apache-2.0	hmac	160	
erlang-asn1	erlang	"Erlang/OTP modules for ASN.1 support The Asn1 application contains modules with compile-time and run-time support for ASN.1 in Erlang/OTP."	LGPL-2.1 Apache-2.0	md5	128	
libapache2-mod-wsgi	mod-wsgi	"Python WSGI adapter module for Apache The mod_wsgi adapter is an Apache module that provides a WSGI (Web Server Gateway Interface a standard interface between web server software and web applications written in Python) compliant interface for hosting Python based web applications within Apache. The adapter provides significantly better performance than using existing WSGI adapters for mod_python or CGI. . This package provides module for Python 2.X."	Apache-2.0			
python-unicodcsv	python-unicodcsv	"drop-in replacement for Pythons CSV module with Unicode support The unicodcsv is a drop-in replacement for Pythons CSV module which supports Unicode strings without a hassle. . This is the module for Python 2."	BSD-2-Clause			
python-extras	python-extras	"extensions to the Python standard library (Python 2.x) Extras is a set of extensions to the Python standard library originally written to make the code within testtools cleaner but now split out for general use outside of a testing context. . This package contains the libraries for Python 2.x."	MIT			

Package name	Source	Package Description	Package License	Encryption types	Encryption Max Key Length	Comment
erlang-odbc	erlang	"Erlang/OTP interface to SQL databases The Erlang ODBC application provides an interface for accessing relational SQL databases from Erlang."	LGPL-2.1 Apache-2.0	aes	256	
erlang-odbc	erlang	"Erlang/OTP interface to SQL databases The Erlang ODBC application provides an interface for accessing relational SQL databases from Erlang."	LGPL-2.1 Apache-2.0	diffiehellman	unlimited	
erlang-odbc	erlang	"Erlang/OTP interface to SQL databases The Erlang ODBC application provides an interface for accessing relational SQL databases from Erlang."	LGPL-2.1 Apache-2.0	blowfish	448	
erlang-odbc	erlang	"Erlang/OTP interface to SQL databases The Erlang ODBC application provides an interface for accessing relational SQL databases from Erlang."	LGPL-2.1 Apache-2.0	sha	512	
erlang-odbc	erlang	"Erlang/OTP interface to SQL databases The Erlang ODBC application provides an interface for accessing relational SQL databases from Erlang."	LGPL-2.1 Apache-2.0	hmac	160	
erlang-odbc	erlang	"Erlang/OTP interface to SQL databases The Erlang ODBC application provides an interface for accessing relational SQL databases from Erlang."	LGPL-2.1 Apache-2.0	md5	128	
python-rfc3986	python-rfc3986	"validating URI references per RFC 3986 - Python 2.x This package provides a Python implementation of RFC 3986 including validation and authority parsing. . This package contains the Python 2.x module."	Apache-2.0			
python-eventlet	python-eventlet	"concurrent networking library - Python 2.x Eventlet allows you to change how you run your code not how you write it. . It uses epoll or libevent for highly scalable non-blocking I/O. Coroutines ensure that the developer uses a blocking style of programming that is similar to threading but provide the benefits of non-blocking I/O. The event dispatch is implicit which means you can easily use Eventlet from the Python interpreter or as a small part of a larger application. . It's easy to get started using Eventlet and easy to convert existing applications to use it. Start off by looking at examples common design patterns and the list of the basic API primitives. . This package provides the Python 2.x module."	Apache-2.0			
ceph	ceph	"distributed storage and file system Ceph is a distributed storage system designed to provide excellent performance reliability and scalability. . This package contains all server daemons and management tools for creating running and administering a Ceph storage cluster with the exception of the metadata server which is necessary for using the distributed file system and is provided by the ceph-mds package."	GPL-2.0+ GPL-2.0 GPL-3.0 LGPL-2.0 LGPL-2.1 BSD-2-Clause BSD-3-Clause Public Domain Apache-2.0	crush	unlimited	cephhash
ceph	ceph	"distributed storage and file system Ceph is a distributed storage system designed to provide excellent performance reliability and scalability. . This package contains all server daemons and management tools for creating running and administering a Ceph storage cluster with the exception of the metadata server which is necessary for using the distributed file system and is provided by the ceph-mds package."	GPL-2.0+ GPL-2.0 GPL-3.0 LGPL-2.0 LGPL-2.1 BSD-2-Clause BSD-3-Clause Public Domain Apache-2.0	sha	512	
ceph	ceph	"distributed storage and file system Ceph is a distributed storage system designed to provide excellent performance reliability and scalability. . This package contains all server daemons and management tools for creating running and administering a Ceph storage cluster with the exception of the metadata server which is necessary for using the distributed file system and is provided by the ceph-mds package."	GPL-2.0+ GPL-2.0 GPL-3.0 LGPL-2.0 LGPL-2.1 BSD-2-Clause BSD-3-Clause Public Domain Apache-2.0	aes	256	

Package name	Source	Package Description	Package License	Encryption types	Encryption Max Key Length	Comment
ceph	ceph	"distributed storage and file system Ceph is a distributed storage system designed to provide excellent performance reliability and scalability. . This package contains all server daemons and management tools for creating running and administering a Ceph storage cluster with the exception of the metadata server which is necessary for using the distributed file system and is provided by the ceph-mds package."	GPL-2.0+ GPL-2.0 GPL-3.0 LGPL-2.0 LGPL-2.1 BSD-2-Clause BSD-3-Clause Public Domain Apache-2.0	abacus	0	
ceph	ceph	"distributed storage and file system Ceph is a distributed storage system designed to provide excellent performance reliability and scalability. . This package contains all server daemons and management tools for creating running and administering a Ceph storage cluster with the exception of the metadata server which is necessary for using the distributed file system and is provided by the ceph-mds package."	GPL-2.0+ GPL-2.0 GPL-3.0 LGPL-2.0 LGPL-2.1 BSD-2-Clause BSD-3-Clause Public Domain Apache-2.0	md5	128	
liberasurecode1	liberasurecode	"support of multiple erasure code backends - shared library Liberasurecode is an erasure code library which can support multiple erasure code 'backends'. The repository includes a Jerasure for Reed-Solomon implementation. . This package contains the shared library."	Unknown	md5	128	
neutron-sriov-agent	neutron	"OpenStack virtual network service - SR-IOV agent Neutron provides an API to dynamically request and configure virtual networks. These networks connect "interfaces" from other OpenStack services (such as vNICs from Nova VMs). The Neutron API supports extensions to provide advanced network capabilities including QoS ACLs and network monitoring. . This package provides the Mellanox SR-IOV agent."	Apache-2.0			
libvotequorum-dev	corosync	"Standards-based cluster framework VoteQuorum devel files Corosync is a project to implement a production quality "Revised BSD" licensed implementation of all core functionalities required by openais. The project implements cutting edge research on virtual synchrony to provide 100% correct operation in the face of failures or partitionable networks with excellent performance characteristics. . The Application Interface Specification is a software API and policies which are used to develop applications that maintain service during faults. . This package contains the devel files of Votequorum a library which is part of Corosync."	Public Domain			
python-msgpack	msgpack-python	"Python implementation of MessagePack format MessagePack is a binary-based efficient object serialization format. It enables the exchange of structured objects between many languages like JSON. But unlike JSON it is very fast and small. . This package contains a Python extension module implementing the MessagePack format."	GPL-2.0+ GPL-2.0 Apache-2.0			
python-jsonpath-rw-ext-doc	python-jsonpath-rw-ext	"Extensions for JSONPath RW - doc Jsonpath-rw-ext extends json-path-rw capabilities by adding multiple extensions: 'len' that allows one to get the length of a list. 'sorted' that returns a sorted version of a list 'arithmetic' that permits one to make math operation between elements and 'filter' to select only certain elements of a list. . This package contains the documentation."	Apache-2.0			
python-senlinclient	python-senlinclient	"OpenStack Clustering API Client Library - Python 2.7 This is a client library for Senlin built on the Senlin clustering API. It provides a Python API (the senlinclient module) and a command-line tool (senlin). . This package contains the Python 2.7 module."	Apache-2.0			

Package name	Source	Package Description	Package License	Encryption types	Encryption Max Key Length	Comment
marathon	marathon	"Marathon is an Apache Mesos framework for long-running applications. Marathon provides a REST API for starting stopping and scaling applications. Marathon is written in Scala and can run in highly-available mode by running multiple copies. The state of running tasks gets stored in the Mesos state abstraction."	GPL-2.0+ GPL-2.0			
python-openstackclient-doc	python-openstackclient	"OpenStack Command-line Client - doc python-openstackclient is a unified command-line client for the OpenStack APIs. It is a thin wrapper to the stock python-*client modules that implement the actual REST API client actions. . This is an implementation of the design goals shown in <a href="http://wiki.openstack.org/UnifiedCLI">http://wiki.openstack.org/UnifiedCLI</a> . The primary goal is to provide a unified shell command structure and a common language to describe operations in OpenStack. . This package contains the documentation."	Apache-2.0			
python3-sphinxcontrib.httpdomain	sphinxcontrib-httpdomain	"Sphinx domain for HTTP APIs - Python 3.x This contrib extension sphinxcontrib.httpdomain provides a Sphinx domain for describing RESTful HTTP APIs. It generates RESTful HTTP API reference documentation from a Flask application?s routing table similar to sphinx.ext.autodoc. . This package provides the Python 3.x module."	BSD-2-Clause			
python3-oslo.policy	python-oslo.policy	"RBAC policy enforcement library for OpenStack - Python 3.x Oslo.policy provides a Role Based Access Control policy enforcement library for OpenStack. . This package contains the Python 3.x module."	Apache-2.0			
python-markupsafe-dbg	markupsafe	"HTML/XHTML/XML string library for Python - debug version MarkupSafe is a Python library implementing a unicode subclass that is aware of HTML escaping rules. It can be used to implement automatic string escaping. . This package contains the extension built for the Python debug interpreter."	unknown			
libnl-utils	libnl3	"Utilities for dealing with netlink sockets This is a library for applications dealing with netlink sockets. The library provides an interface for raw netlink messaging and various netlink family specific interfaces. . These utilities help dealing with netlink sockets."	GPL-2.0 LGPL-2.1			
mistral-engine	mistral	"OpenStack Workflow service - Engine Mistral is a workflow service. Most business processes consist of multiple distinct interconnected steps that need to be executed in a particular order in a distributed environment. One can describe such process as a set of tasks and task relations and upload such description to Mistral so that it takes care of state management correct execution order parallelism synchronization and high availability. Mistral also provides flexible task scheduling so that it can run a process according to a specified schedule (i.e. every Sunday at 4.00pm) instead of running it immediately. Such set of tasks and relations between them is called a workflow. . This package contains the Engine."	Apache-2.0			
python3-redis	python-redis	"Persistent key-value database with network interface (Python 3 library) Redis is a key-value database in a similar vein to memcache but the dataset is non-volatile. Redis additionally provides native support for atomically manipulating and querying data structures such as lists and sets. . The dataset is stored entirely in memory and periodically flushed to disk. . This package contains Python bindings to Redis. . This is the Python 3 version of the package."	GPL-3.0 MIT			



Package name	Source	Package Description	Package License	Encryption types	Encryption Max Key Length	Comment
ruby-rethtool	rethtool	"Partial Ruby wrapper around the SIOCETHTOOL ioctl. Rethtool only supports a couple of things: * retrieve various details about the interface (link speed duplex etc) * determine if the link is currently up or down"	GPL-3.0			
python-netifaces	netifaces	"portable network interface information - Python 2.x netifaces provides a (hopefully portable-ish) way for Python programmers to get access to a list of the network interfaces on the local machine and to obtain the addresses of those network interfaces. . This package contains the module for Python 2.x."	MIT			
python3-bandit	bandit	"Security oriented static analyzer for Python code - Python 3.x Bandit is a tool designed to find common security issues in Python code. To do this Bandit processes each file builds an Abstract Syntax Tree (AST) and runs appropriate plugins against the AST nodes. Once Bandit has finished scanning all the files it generates a report. . This package contains the Python 3.x module."	Apache-2.0			
qemu-system-misc	qemu	"QEMU full system emulation binaries (miscellaneous) QEMU is a fast processor emulator: currently the package supports ARM CRIS M68k (ColdFire) MicroBlaze and SH4 emulation. By using dynamic translation it achieves reasonable speed while being easy to port on new host CPUs. . This package provides the full system emulation binaries to emulate various other hardware which did not made into separate packages. Emulators for the following architectures are provided: alpha cris lm32 m68k microblaze microblazeel moxie or32 sh4 sh4eb s390x tricore xtensa xtensaeb unicore32. . In system emulation mode QEMU emulates a full system including a processor and various peripherals. It enables easier testing and debugging of system code. It can also be used to provide virtual hosting of several virtual machines on a single server."	GPL-2.0 MIT	crypt	65	
qemu-system-misc	qemu	"QEMU full system emulation binaries (miscellaneous) QEMU is a fast processor emulator: currently the package supports ARM CRIS M68k (ColdFire) MicroBlaze and SH4 emulation. By using dynamic translation it achieves reasonable speed while being easy to port on new host CPUs. . This package provides the full system emulation binaries to emulate various other hardware which did not made into separate packages. Emulators for the following architectures are provided: alpha cris lm32 m68k microblaze microblazeel moxie or32 sh4 sh4eb s390x tricore xtensa xtensaeb unicore32. . In system emulation mode QEMU emulates a full system including a processor and various peripherals. It enables easier testing and debugging of system code. It can also be used to provide virtual hosting of several virtual machines on a single server."	GPL-2.0 MIT	aes	256	

Package name	Source	Package Description	Package License	Encryption types	Encryption Max Key Length	Comment
qemu-system-misc	qemu	"QEMU full system emulation binaries (miscellaneous) QEMU is a fast processor emulator: currently the package supports ARM CRIS M68k (ColdFire) MicroBlaze and SH4 emulation. By using dynamic translation it achieves reasonable speed while being easy to port on new host CPUs. . This package provides the full system emulation binaries to emulate various other hardware which did not made into separate packages. Emulators for the following architectures are provided: alpha cris lm32 m68k microblaze microblazeel moxie or32 sh4 sh4eb s390x tricore xtensa xtensaeb unicore32. . In system emulation mode QEMU emulates a full system including a processor and various peripherals. It enables easier testing and debugging of system code. It can also be used to provide virtual hosting of several virtual machines on a single server."	GPL-2.0 MIT	des	56	
qemu-system-misc	qemu	"QEMU full system emulation binaries (miscellaneous) QEMU is a fast processor emulator: currently the package supports ARM CRIS M68k (ColdFire) MicroBlaze and SH4 emulation. By using dynamic translation it achieves reasonable speed while being easy to port on new host CPUs. . This package provides the full system emulation binaries to emulate various other hardware which did not made into separate packages. Emulators for the following architectures are provided: alpha cris lm32 m68k microblaze microblazeel moxie or32 sh4 sh4eb s390x tricore xtensa xtensaeb unicore32. . In system emulation mode QEMU emulates a full system including a processor and various peripherals. It enables easier testing and debugging of system code. It can also be used to provide virtual hosting of several virtual machines on a single server."	GPL-2.0 MIT	tripledes	168	
qemu-system-misc	qemu	"QEMU full system emulation binaries (miscellaneous) QEMU is a fast processor emulator: currently the package supports ARM CRIS M68k (ColdFire) MicroBlaze and SH4 emulation. By using dynamic translation it achieves reasonable speed while being easy to port on new host CPUs. . This package provides the full system emulation binaries to emulate various other hardware which did not made into separate packages. Emulators for the following architectures are provided: alpha cris lm32 m68k microblaze microblazeel moxie or32 sh4 sh4eb s390x tricore xtensa xtensaeb unicore32. . In system emulation mode QEMU emulates a full system including a processor and various peripherals. It enables easier testing and debugging of system code. It can also be used to provide virtual hosting of several virtual machines on a single server."	GPL-2.0 MIT	sha	512	
python-colorama	python-colorama	"Cross-platform colored terminal text in Python - Python 2.x Python-colorama provides a simple cross-platform API to print colored terminal text from Python applications. . ANSI escape character sequences are commonly used to produce colored terminal text on Unix. Colorama provides some shortcuts to generate these sequences. . This has the happy side-effect that existing applications or libraries which already use ANSI sequences to produce colored output on Linux. . This package provides the module for Python 2."	GPL-2.0+ GPL-2.0 BSD-3-Clause			
python-pyinotify-doc	pyinotify	"simple Linux inotify Python bindings -- documentation pyinotify is a simple wrapper for the Linux inotify mechanism. . inotify is a Linux Kernel feature available since 2.6.13. inotify makes it possible for applications to easily be notified of filesystem changes. . This package contains API documentation and examples."	GPL-2.0			

Package name	Source	Package Description	Package License	Encryption types	Encryption Max Key Length	Comment
network-checker	network-checker	"Network connectivity check tool"	unknown			
python3-cinderclient	python-cinderclient	"Python bindings to the OpenStack Volume API - Python 3.x Cinder is a block storage as service system for the Openstack cloud computing software suite. It is a direct replacement for nova-volume as a separate project. Cinder users LVM partitions of your volume servers in order to provide iSCSI permanent block storage devices for your virtual machines running on Nova. . This package contains the a client for the OpenStack Volume API. There's a Python API (the "cinderclient" module) and a command-line script ("cinder"). Each implements 100% of the OpenStack Volume API. . This package provides the Python 3.x module."	GPL-2.0+ GPL-2.0 Apache-2.0			
neutron-dhcp-agent	neutron	"OpenStack virtual network service - DHCP agent Neutron provides an API to dynamically request and configure virtual networks. These networks connect "interfaces" from other OpenStack services (such as vNICs from Nova VMs). The Neutron API supports extensions to provide advanced network capabilities including QoS ACLs and network monitoring. . This package provides the DHCP agent."	Apache-2.0			
pacemaker-common	pacemaker	"cluster resource manager common files At its core Pacemaker is a distributed finite state machine capable of co-ordinating the startup and recovery of inter-related services across a set of machines. . Pacemaker understands many different resource types (OCF SYSV systemd) and can accurately model the relationships between them (colocation ordering). . It can even use technology such as Docker to automatically isolate the resources managed by the cluster. . This package contains common infrastructure and data files for the Pacemaker daemons and utilities."	GPL-2.0+ GPL-2.0 LGPL-2.1	md5	128	
python-debtcollector-doc	python-debtcollector	"collection of patterns to collect technical debt - doc Debtcollector is a collection of Python patterns to help collecting technical debt in a non-destructive manner (following deprecation patterns and strategies and so-on). . This package contains the documentation."	Apache-2.0			
python3-pecan	python-pecan	"WSGI object-dispatching web framework - Python 3.x The Pecan Python module is a WSGI object-dispatching web framework designed to be lean and fast with few dependencies. Pecan comes bundled with a lightweight WSGI development server based on Python's wsgiref.simpleserver. Pecan applications also come with an interactive Python shell which can be used to execute expressions in an environment very similar to the one your application runs in (using the "pecan shell" command). . WSGI is the "Web Server Gateway Interface". It defines a simple and universal interface between web servers and web applications or frameworks for the Python programming language. . This package contains the Python 3.x module."	GPL-2.0 BSD-3-Clause MIT			
openstack-dashboard	horizon	"web application to control an OpenStack cloud The OpenStack Dashboard is a web application to control an OpenStack cloud. It connects to OpenStack services such as Nova Swift or Keystone using the OpenStack REST API just as you would with the command line clients."	Apache-2.0			
ruby-openstack	ruby-openstack	"OpenStack Ruby API API Binding for OpenStack"	GPL-2.0+ GPL-2.0			

Package name	Source	Package Description	Package License	Encryption types	Encryption Max Key Length	Comment
python3-glanceclient	python-glanceclient	"Client library for Openstack glance server - Python 3.x The Glance project provides services for discovering registering and retrieving virtual machine images over the cloud. They may be stand-alone services or may be used to deliver images from object stores such as OpenStack's Swift service to Nova's compute nodes. . This is a client for the Glance which uses the OpenStack Image API. There's a Python API (the "glanceclient" module) and a command-line script ("glance"). . This package provides the Python 3.x module."	GPL-2.0+ GPL-2.0 Apache-2.0			
python3-daemon	python-daemon	"library for making a Unix daemon process ? Python 3 ?daemon? is a library that assists a Python program to turn itself into a well-behaved Unix daemon process as specified in PEP 3143. . This library provides a ?DaemonContext? class that manages the following important tasks for becoming a daemon process: . * Detach the process into its own process group. * Set process environment appropriate for running inside a chroot. * Renounce suid and sgid privileges. * Close all open file descriptors. * Change the working directory uid gid and umask. * Set appropriate signal handlers. * Open new file descriptors for stdin stdout and stderr. * Manage a specified PID lock file. * Register cleanup functions for at-exit processing. . This package installs the library for Python 3."	GPL-2.0+ GPL-2.0 GPL-3.0 Apache-2.0			
python-swiftclient	python-swiftclient	"Client library for Openstack Swift API - Python 2.7 OpenStack Object Storage (code-named Swift) creates redundant scalable object storage using clusters of standardized servers to store petabytes of accessible data. It is not a file system or real-time data storage system but rather a long-term storage system for a more permanent type of static data that can be retrieved leveraged and then updated if necessary. Primary examples of data that best fit this type of storage model are virtual machine images photo storage email storage and backup archiving. Having no central "brain" or master point of control provides greater scalability redundancy and permanence. . Objects are written to multiple hardware devices in the data center with the OpenStack software responsible for ensuring data replication and integrity across the cluster. Storage clusters can scale horizontally by adding new nodes. Should a node fail OpenStack works to replicate its content from other active nodes. Because OpenStack uses software logic to ensure data replication and distribution across different devices inexpensive commodity hard drives and servers can be used in lieu of more expensive equipment. . This package provides a client for the OpenStack Swift API. There's a Python API (the "swiftclient" module) and a command-line script ("swift"). . This package contains the Python 2.7 module."	GPL-2.0 Apache-2.0			
python3-googleapi	python-googleapi	"Google APIs Client Library - Python 3.x This package contains the Google APIs Client Library for Python which is the core Python library for accessing. Samples are available in the python-googleapi-samples package. . This package provides the Python 3.x module."	GPL-3.0 Apache-2.0			
python-oslo-vmware-doc	python-oslo-vmware	"transitional dummy package for python-oslo-vmware-doc This transitional package to python-oslo-vmware-doc is safe to remove."	Apache-2.0			

Package name	Source	Package Description	Package License	Encryption types	Encryption Max Key Length	Comment
python-keystoneclient	python-keystoneclient	"client library for the OpenStack Keystone API - Python 2.x This is the identity service used by OpenStack for authentication (authN) and high-level authorization (authZ). It currently supports token-based authN with user/service authZ and is scalable to support OAuth SAML and OpenID in future versions. Out of the box Keystone uses SQLite for its identity store database with the option to connect to external LDAP. . This is a client for the OpenStack Keystone API. There's a Python API (the "keystoneclient" module) and a command-line script ("keystone"). . Installing this package gets you a shell command that you can use to interact with Keystone's API. Note that the "keystone" command line is currently deprecated in favor of the "openstack" one available within the "python-openstackclient" package. . This package contains the Python 2.x module."	Apache-2.0			
erlang-runtime-tools	erlang	"Erlang/OTP runtime tracing/debugging tools Runtime_Tools provides low-footprint tracing/debugging tools suitable for inclusion in a production system."	LGPL-2.1 Apache-2.0	aes	256	
erlang-runtime-tools	erlang	"Erlang/OTP runtime tracing/debugging tools Runtime_Tools provides low-footprint tracing/debugging tools suitable for inclusion in a production system."	LGPL-2.1 Apache-2.0	diffiehellman	unlimited	
erlang-runtime-tools	erlang	"Erlang/OTP runtime tracing/debugging tools Runtime_Tools provides low-footprint tracing/debugging tools suitable for inclusion in a production system."	LGPL-2.1 Apache-2.0	blowfish	448	
erlang-runtime-tools	erlang	"Erlang/OTP runtime tracing/debugging tools Runtime_Tools provides low-footprint tracing/debugging tools suitable for inclusion in a production system."	LGPL-2.1 Apache-2.0	sha	512	
erlang-runtime-tools	erlang	"Erlang/OTP runtime tracing/debugging tools Runtime_Tools provides low-footprint tracing/debugging tools suitable for inclusion in a production system."	LGPL-2.1 Apache-2.0	hmac	160	
erlang-runtime-tools	erlang	"Erlang/OTP runtime tracing/debugging tools Runtime_Tools provides low-footprint tracing/debugging tools suitable for inclusion in a production system."	LGPL-2.1 Apache-2.0	md5	128	
seabios	seabios	"Legacy BIOS implementation SeaBIOS is a legacy BIOS implementation aimed at supporting not only emulated hosts such as QEMU but also real hardware. . Note however that SeaBIOS does not handle early initialization of core chipsets so don't even think of flashing it to your board (look at Coreboot for that)."	LGPL-2.0 Public Domain			
python-keystoneauth1	python-keystoneauth1	"authentication library for OpenStack Identity - Python 2.7 Keystoneauth is a library that contains tools for authenticating with OpenStack Clients. These tools include: authentication plugins (password token and federation based); discovery mechanisms to determine version support for OpenStack clouds; and a session used to maintain client settings across requests. It is designed for use in conjunction with the existing OpenStack clients and for simplifying the process of writing new clients. . This package contains the Python 2.7 module."	Apache-2.0			
python3-hacking	python-hacking	"Flake8 OpenStack Hacking Guidelines Enforcement plugins - Python 3.x Hacking is a set of flake8 plugins that test and enforce the OpenStack Style Commandments. It checks that your code matches the coding style which is mandatory for contributing to OpenStack. . This package provides the Python 3.x module."	Apache-2.0			

Package name	Source	Package Description	Package License	Encryption types	Encryption Max Key Length	Comment
python-scciclient-doc	python-scciclient	"Python ServerView Common Command Interface (SCCI) Client Library - doc This package provides the Python ServerView Common Command Interface (SCCI) Client Library which support FUJITSU iRMC S4 integrated Remote Management Controller. This Python module may be helpful if you want to use IroniC to manage a FUJITSU server that has this hardware. . This package contains the documentation."	Apache-2.0			
python-congressclient	python-congressclient	"client for the open policy framework for the cloud - Python 2.x Congress is an open policy framework for the cloud. With Congress a cloud operator can declare monitor enforce and audit "policy" in a heterogeneous cloud environment. Congress get inputs from a cloud's various cloud services; for example in Openstack Congress fetches information about VMs from Nova and network state from Neutron etc. Congress then feeds input data from those services into its policy engine where Congress verifies that the cloud's actual state abides by the cloud operator's policies. Congress is designed to work with any policy and any cloud service. . This package provides a cli and a Python 2.x client module."	Apache-2.0			
python-os-refresh-config	python-os-refresh-config	"refresh system configuration of an OpenStack TripleO node Runs through all of the phases to ensure configuration is applied and enabled on a machine running a TripleO undercloud. Will exit with an error if any phase has a problem."	Apache-2.0			
python-oslo-context	python-oslo-context	"transitional dummy package for python-oslo-context This transitional package is safe to remove and use python-oslo.context instead."	Apache-2.0			
python-ceilometerclient	python-ceilometerclient	"Client library for Openstack Ceilometer API server - Python 2.7 Ceilometer aims to deliver a unique point of contact for billing systems to acquire all counters they need to establish customer billing across all current and future OpenStack components. The delivery of counters must be tracable and auditable the counters must be easily extensible to support new projects and agents doing data collections should be independent of the overall system. . This is a client for the Ceilometer which uses the OpenStack Image API. There's a Python API (the "ceilometerclient" module) and a command-line script ("ceilometer"). . This package contains the Python 2.7 module."	Apache-2.0			
python3-tz	python-tz	"Python3 version of the Olson timezone database python-tz brings the Olson tz database into Python. This library allows accurate and cross platform timezone calculations using Python 2.3 or higher. It also solves the issue of ambiguous times at the end of daylight savings which you can read more about in the Python Library Reference (datetime.tzinfo). . This package contains the Python 3 version of the library."	Unknown			
openjdk-8-dbg	openjdk-8	"Java runtime based on OpenJDK (debugging symbols) OpenJDK is a development environment for building applications applets and components using the Java programming language. . This package contains the debugging symbols. . The packages are built using the IcedTea build support and patches from the IcedTea project."	unknown			

Package name	Source	Package Description	Package License	Encryption types	Encryption Max Key Length	Comment
python-ryu-doc	ryu	"software defined networking framework (ryu docs) Ryu is a component-based software defined networking framework. Ryu provides software components with well defined API that make it easy for developers to create new network management and control applications. Ryu supports various protocols for managing network devices such as OpenFlow Netconf OF-config etc. About OpenFlow Ryu supports fully 1.0 1.2 1.3 1.4 and Nicira Extensions. . This package provides the HTML documentation including the Ryu API manual."	MIT Apache-2.0			
dirtbike	dirtbike	"turn system-installed Python packages into wheels The purpose of this package is to make it easier to devendorize other packages which bundle various upstream packages. An example of this is pip which bundles a half-dozen or so other upstream packages. In Debian and other distros such vendoring is frowned upon. To make it easier to devendorize dirtbike turns installed system packages into wheels and these wheels can then be used instead of the vendored packages."	MIT			
python-oslo-policy-doc	python-oslo.policy	"transitional dummy package for python-oslo-policy-doc This transitional package to python-oslo.policy-doc is safe to remove."	Apache-2.0			
zaqar-common	zaqar	"OpenStack Queueing as a Service - common files Zaqar is a multi-tenant cloud messaging service for web developers. It combines the ideas pioneered by Amazon's SQS product with additional semantics to support event broadcasting. . The service features a fully RESTful API which developers can use to send messages between various components of their SaaS and mobile applications by using a variety of communication patterns. Underlying this API is an efficient messaging engine designed with scalability and security in mind. . Other OpenStack components can integrate with Zaqar to surface events to end users and to communicate with guest agents that run in the "over-cloud" layer. Cloud operators can leverage Zaqar to provide equivalents of SQS and SNS to their customers. . By installing python-zaqarclient you get programmatic access to the Zaqar v1.0 API library. Plus it installs a plugin to python-openstackclient that allows you to perform simple queue operations. . This package contains common files and configuration that are needed by all the daemon packages of Zaqar."	Apache-2.0			
python-django-classy-tags-doc	django-classy-tags	"Class based template tags for Django projects (Documentation) django-classy-tags is an approach at making writing template tags in Django easier shorter and more fun. It provides an extensible argument parser which reduces most of the boiler plate code you usually have to write when coding custom template tags. . django-classy-tags does no magic by design. Thus you will not get automatic registering/loading of your tags like other solutions provide. You will not get automatic argument guessing from function signatures but rather you have to declare what arguments your tag accepts. There is no magic in your template tag class either it?s just a subclass of django.template.Node which invokes a parser class to parse the arguments when it?s initialized and resolves those arguments into keyword arguments in it?s render method and calls its render_tag method with those keyword arguments. . This package contains the documentation."	BSD-3-Clause			

Package name	Source	Package Description	Package License	Encryption types	Encryption Max Key Length	Comment
python3-lockfile	python-lockfile	"file locking library for Python ? Python 3 library The ?lockfile? library exports a ?LockFile? class which provides a simple API for locking files. . The appropriate implementation for ?LockFile? is chosen automatically based on the OS capabilities for an atomic filesystem operation. These implementations are also available for explicit use as ?LinkLockFile? and ?MkdirLockFile?. . Other back ends are possible with the same semantics. Examples included are: * ?SQLiteLockFile? using records in an SQLite database. * ?PIDLockFile? using the semantics of a Unix PID file. . Unlike other Python locking libraries (the Windows ?msvcrt.locking? function the Unix ?fcntl.flock? ?fcntl.lockf? and the deprecated ?posixfile? module) the API is identical across both Unix (including GNU/Linux and MacOS) and Windows platforms. . This package installs the Python 3 library."	Unknown			
python3-manilaclient	python-manilaclient	"OpenStack shared file system as a service - Python 3.x client Manila is an OpenStack project to provide Shared Filesystems as a service. It provides coordinated access to shared or distributed file systems. While the primary consumption of file shares would be across OpenStack Compute instances the service is also intended to be accessible as an independent capability in line with the modular design established by other OpenStack services. Manila is extensible for multiple backends (to support vendor or file system specific nuances / capabilities) and accommodates any of a variety of shared or distributed file system types. . This package contains the Python client library and command line tool for Manila and for Python 3.x."	Apache-2.0			
python3-oslo.service	python-oslo.service	"library for running OpenStack services - Python 3.x The oslo.service library provides a framework for managing long-running services in OpenStack projects. . Features include: * Creation and management of long running service processes and threads. * Periodic task management. * SSL configuration of services. * SystemD notification support. . This package contains the Python 3.x module."	Apache-2.0			
python3-pygments	pygments	"syntax highlighting package written in Python 3 Pygments aims to be a generic syntax highlighter for general use in all kinds of software such as forum systems wikis or other applications that need to prettify source code. . Highlights are: * a wide range of common languages and markup formats is supported * special attention is paid to details increasing quality by a fair amount * support for new languages and formats are added easily * a number of output formats presently HTML LaTeX and ANSI sequences * it is usable as a command-line tool and as a library"	BSD-2-Clause Apache-2.0			
mongodb-clients	mongodb	"object/document-oriented database (client apps) MongoDB is a high-performance open source schema-free document-oriented data store that's easy to deploy manage and use. It's network accessible written in C++ and offers the following features: . * Collection oriented storage - easy storage of object-style data * Full index support including on inner objects * Query profiling * Replication and fail-over support * Efficient storage of binary data including large objects (e.g. videos) * Auto-sharding for cloud-level scalability . High performance scalability and reasonable depth of functionality are the goals for the project. . This package contains the standard administrative shell (mongo) and other utilities for administration or analysis of performance of the server."	GPL-2.0 BSD-2-Clause MIT Apache-2.0			



Package name	Source	Package Description	Package License	Encryption types	Encryption Max Key Length	Comment
python-aodhclient	python-aodhclient	"Python bindings to the OpenStack Aodh API. Aodh provides alarming for OpenStack. The alarming component of Aodh first delivered in the Havana version allows you to set alarms based on threshold evaluation for a collection of samples. An alarm can be set on a single meter or on a combination. For example you may want to trigger an alarm when the memory consumption reaches 70% on a given instance if the instance has been up for more than 10 min. . This package contains the Python 2.7 module."	Apache-2.0			
nova-cert	nova	"OpenStack Compute - certificate manager. OpenStack is a reliable cloud infrastructure. Its mission is to produce the ubiquitous cloud computing platform that will meet the needs of public and private cloud providers regardless of size by being simple to implement and massively scalable. . OpenStack Compute codenamed Nova is a cloud computing fabric controller designed to be modular and easy to extend and adapt. In addition to its "native" OpenStack API it also supports the Amazon EC2 API and it supports many different database backends (including SQLite MySQL and PostgreSQL) hypervisors (KVM Xen) and user directory systems (LDAP SQL). . This package provides the certificate manager. This enables the generation and revocation of X.509 certificates used to access the platform."	Apache-2.0			
nova-compute	nova	"OpenStack Compute - compute node. OpenStack is a reliable cloud infrastructure. Its mission is to produce the ubiquitous cloud computing platform that will meet the needs of public and private cloud providers regardless of size by being simple to implement and massively scalable. . OpenStack Compute codenamed Nova is a cloud computing fabric controller designed to be modular and easy to extend and adapt. In addition to its "native" OpenStack API it also supports the Amazon EC2 API and it supports many different database backends (including SQLite MySQL and PostgreSQL) hypervisors (KVM Xen) and user directory systems (LDAP SQL). . This package equips a system to function as a compute node running the virtual machines."	Apache-2.0			
python3-demjson	python-demjson	"encoder, decoder, and lint/validator for JSON in Python. demjson is a comprehensive Python language binding to the JSON language-independent data encoding standard which is often used as a simpler substitute for XML in AJAX-based web applications."	Unknown			
erlang-webtool	erlang	"Erlang/OTP helper for web-based tools. WebTool provides an easy way to use web-based tools with Erlang/OTP. It configures and starts a web server as well as all available tools."	LGPL-2.1 Apache-2.0	aes	256	
erlang-webtool	erlang	"Erlang/OTP helper for web-based tools. WebTool provides an easy way to use web-based tools with Erlang/OTP. It configures and starts a web server as well as all available tools."	LGPL-2.1 Apache-2.0	diffiehellman	unlimited	
erlang-webtool	erlang	"Erlang/OTP helper for web-based tools. WebTool provides an easy way to use web-based tools with Erlang/OTP. It configures and starts a web server as well as all available tools."	LGPL-2.1 Apache-2.0	blowfish	448	
erlang-webtool	erlang	"Erlang/OTP helper for web-based tools. WebTool provides an easy way to use web-based tools with Erlang/OTP. It configures and starts a web server as well as all available tools."	LGPL-2.1 Apache-2.0	sha	512	

Package name	Source	Package Description	Package License	Encryption types	Encryption Max Key Length	Comment
erlang-webtool	erlang	"Erlang/OTP helper for web-based tools WebTool provides an easy way to use web-based tools with Erlang/OTP. It configures and starts a web server as well as all available tools."	LGPL-2.1 Apache-2.0	hmac	160	
erlang-webtool	erlang	"Erlang/OTP helper for web-based tools WebTool provides an easy way to use web-based tools with Erlang/OTP. It configures and starts a web server as well as all available tools."	LGPL-2.1 Apache-2.0	md5	128	
liblrmd1	pacemaker	"cluster resource manager LRMD library At its core Pacemaker is a distributed finite state machine capable of co-ordinating the startup and recovery of inter-related services across a set of machines. . Pacemaker understands many different resource types (OCF SYSV systemd) and can accurately model the relationships between them (colocation ordering). . It can even use technology such as Docker to automatically isolate the resources managed by the cluster. . This package contains the Local Resource Manager Daemon library."	GPL-2.0+ GPL-2.0 LGPL-2.1	md5	128	
python-kajiki	python-kajiki	"Really fast well-formed xml templates - Python 2.x Are you tired of the slow performance of Genshi? But you still long for the assurance that your output is well-formed that you miss from all those other templating engines? Do you wish you had Jinja's blocks with Genshi's syntax? Then look no further Kajiki is for you! Kajiki quickly compiles Genshi-like syntax to *real Python bytecode* that renders with blazing-fast speed! Don't delay! Pick up your copy of Kajiki today! . This package provides the Python 2.x module."	GPL-3.0 MIT			
python-xstatic-angular-bootstrap	python-xstatic-angular-bootstrap	"Angular-Bootstrap XStatic support - Python 2.x XStatic is a Python web development tool for handling required static data files from external projects such as CSS images and JavaScript. It provides a lightweight infrastructure to manage them via Python modules that your app can depend on in a portable virtualenv-friendly way instead of using embedded copies. . This package contains the Angular-Bootstrap support as a Python 2.x module."	Unknown			
python-progress	python-progress	"easy progress reporting for Python This package provides several canned progress bars for command line Python programs. Progress bars are customizable and can be advanced by using the next() method with the finish() method to finish. . This is the Python 2 version."	MIT ISC			
python-pip-whl	python-pip	"alternative Python package installer pip is a replacement for easy_install and is intended to be an improved Python package installer. It integrates with virtualenv doesn't do partial installs can save package state for replaying can install from non-egg sources and can install from version control repositories. . This is the support package for the PEP 427 wheel version of the package required for using pip inside a virtual environment."	Unknown			
libcephfs-java	ceph	"Java library for the Ceph File System Ceph is a distributed storage system designed to provide excellent performance reliability and scalability. . This package contains the Java library for interacting with the Ceph File System."	GPL-2.0+ GPL-2.0 GPL-3.0 LGPL-2.0 LGPL-2.1 BSD-2-Clause BSD-3-Clause Public Domain Apache-2.0	crush	unlimited	cephhash
libcephfs-java	ceph	"Java library for the Ceph File System Ceph is a distributed storage system designed to provide excellent performance reliability and scalability. . This package contains the Java library for interacting with the Ceph File System."	GPL-2.0+ GPL-2.0 GPL-3.0 LGPL-2.0 LGPL-2.1 BSD-2-Clause BSD-3-Clause Public Domain Apache-2.0	sha	512	
libcephfs-java	ceph	"Java library for the Ceph File System Ceph is a distributed storage system designed to provide excellent performance reliability and scalability. . This package contains the Java library for interacting with the Ceph File System."	GPL-2.0+ GPL-2.0 GPL-3.0 LGPL-2.0 LGPL-2.1 BSD-2-Clause BSD-3-Clause Public Domain Apache-2.0	aes	256	

Package name	Source	Package Description	Package License	Encryption types	Encryption Max Key Length	Comment
libcephfs-java	ceph	"Java library for the Ceph File System Ceph is a distributed storage system designed to provide excellent performance reliability and scalability. . This package contains the Java library for interacting with the Ceph File System."	GPL-2.0+ GPL-2.0 GPL-3.0 LGPL-2.0 LGPL-2.1 BSD-2-Clause BSD-3-Clause Public Domain Apache-2.0	abacus	0	
libcephfs-java	ceph	"Java library for the Ceph File System Ceph is a distributed storage system designed to provide excellent performance reliability and scalability. . This package contains the Java library for interacting with the Ceph File System."	GPL-2.0+ GPL-2.0 GPL-3.0 LGPL-2.0 LGPL-2.1 BSD-2-Clause BSD-3-Clause Public Domain Apache-2.0	md5	128	
python-manilaclient-doc	python-manilaclient	"OpenStack shared file system as a service - client doc Manila is an OpenStack project to provide Shared Filesystems as a service. It provides coordinated access to shared or distributed file systems. While the primary consumption of file shares would be across OpenStack Compute instances the service is also intended to be accessible as an independent capability in line with the modular design established by other OpenStack services. Manila is extensible for multiple backends (to support vendor or file system specific nuances / capabilities) and accommodates any of a variety of shared or distributed file system types. . This package contains the Python client library and command line tool documentation."	Apache-2.0			
python-xstatic-doc	python-xstatic	"XStatic base package with minimal support code - doc XStatic is a packaging standard to package external (often 3rd party) static files as a Python package so they are easily usable on all operating systems with any package management system or even without one. . Many Python projects need to use some specific data files like javascript css java applets images etc. Sometimes these files belong to YOUR project (then you may want to package them separately but you could also just put them into your main package). But in many other cases those files are maintained by someone else (like jQuery javascript library or even much bigger js libraries or applications) and you definitely do not really want to merge them into your project. So you want to have static file packages but you don't want to get lots of stuff you do not want. Thus stuff required by XStatic file packages (especially the main toplevel XStatic package) tries to obey to be a MINIMAL no-fat thing. XStatic doesn't "sell" any web framework or other stuff you don't want. Maybe there will be optional XStatic extensions for all sorts of stuff but they won't be required if you just want the files. . By having static files in packages it is also easier to build virtual envs support linux/bsd/... distribution package maintainers and even windows installs using the same mechanism. . This package contains the documentation."	Unknown			

Package name	Source	Package Description	Package License	Encryption types	Encryption Max Key Length	Comment
python3-xstatic-jasmine	python-xstatic-jasmine	"Jasmine JS XStatic support - Python 3.x XStatic is a packaging standard to package external (often 3rd party) static files as a Python package so they are easily usable on all operating systems with any package management system or even without one. . Many Python projects need to use some specific data files like javascript css java applets images etc. Sometimes these files belong to YOUR project (then you may want to package them separately but you could also just put them into your main package). But in many other cases those files are maintained by someone else (like jQuery javascript library or even much bigger js libraries or applications) and you definitely do not really want to merge them into your project. So you want to have static file packages but you don?t want to get lots of stuff you do not want. Thus stuff required by XStatic file packages (especially the main toplevel XStatic package) tries to obey to be a MINIMAL no-fat thing. XStatic doesn't "sell" any web framework or other stuff you don't want. Maybe there will be optional XStatic extensions for all sorts of stuff but they won't be required if you just want the files. . By having static files in packages it is also easier to build virtual envs support linux/bsd/... distribution package maintainers and even windows installs using the same mechanism. . This package provides Jasmine JS support as a Python 3.x module."	Unknown			
python3-alembic	alembic	"lightweight database migration tool for SQLAlchemy - Python 3.x Alembic is a new database migration tool written by the author of SQLAlchemy. A migration tool offers the following functionality: . * Can emit ALTER statements to a database in order to change the structure of tables and other constructs * Provides a system whereby "migration scripts" may be constructed; each script indicates a particular series of steps that can "upgrade" a target database to a new version and optionally a series of steps that can "downgrade" similarly doing the same steps in reverse. * Allows the scripts to execute in some sequential manner. . This package contains the Python 3.x module."	MIT			
libtransitioner2	pacemaker	"cluster resource manager transitioner library At its core Pacemaker is a distributed finite state machine capable of co-ordinating the startup and recovery of inter-related services across a set of machines. . Pacemaker understands many different resource types (OCF SYSV systemd) and can accurately model the relationships between them (colocation ordering). . It can even use technology such as Docker to automatically isolate the resources managed by the cluster. . This package contains the transitioner library."	GPL-2.0+ GPL-2.0 LGPL-2.1	md5	128	
python-oslo.cache-doc	python-oslo.cache	"cache storage for Openstack projects - doc oslo.cache aims to provide a generic caching mechanism for OpenStack projects by wrapping the dogpile.cache library. The dogpile.cache library provides support memoization key value storage and interfaces to common caching backends such as Memcached. . This package contains the documentation."	Apache-2.0			

Package name	Source	Package Description	Package License	Encryption types	Encryption Max Key Length	Comment
python3-gabbi	python-gabbi	"declarative HTTP testing library - Python 3.x Gabbi is a tool for running HTTP tests where requests and responses are represented in a declarative form. . Gabbi works to bridge the gap between human readable YAML files that represent HTTP requests and expected responses and the obscured realm of Python-based object-oriented unit tests in the style of the unittest module and its derivatives. . Each YAML file represents an ordered list of HTTP requests along with the expected responses. This allows a single file to represent a process in the API being tested. For example: . * Create a resource. * Retrieve a resource. * Delete a resource. * Retrieve a resource again to confirm it is gone. . At the same time it is still possible to ask gabbi to run just one request. If it is in a sequence of tests those tests prior to it in the YAML file will be run (in order). In any single process any test will only be run once. Concurrency is handled such that one file runs in one process. . These features mean that it is possible to create tests that are useful for both humans (as tools for improving and developing APIs) and automated CI systems. . This package contains the Python 3.x module."	Apache-2.0			
python-oslo.service-doc	python-oslo.service	"library for running OpenStack services - doc The oslo.service library provides a framework for managing long-running services in OpenStack projects. . Features include: * Creation and management of long running service processes and threads. * Periodic task management. * SSL configuration of services. * SystemD notification support. . This package contains the documentation."	Apache-2.0			
libcib4	pacemaker	"cluster resource manager CIB library At its core Pacemaker is a distributed finite state machine capable of co-ordinating the startup and recovery of inter-related services across a set of machines. . Pacemaker understands many different resource types (OCF SYSV systemd) and can accurately model the relationships between them (colocation ordering). . It can even use technology such as Docker to automatically isolate the resources managed by the cluster. . This package contains the Cluster Information Base library."	GPL-2.0+ GPL-2.0 LGPL-2.1	md5	128	
python-cryptography	python-cryptography	"Python library exposing cryptographic recipes and primitives (Python 2) The cryptography library is designed to be a "one-stop-shop" for all your cryptographic needs in Python. . As an alternative to the libraries that came before it cryptography tries to address some of the issues with those libraries: - Lack of PyPy and Python 3 support. - Lack of maintenance. - Use of poor implementations of algorithms (i.e. ones with known side-channel attacks). - Lack of high level "Cryptography for humans" APIs. - Absence of algorithms such as AES-GCM. - Poor introspectability and thus poor testability. - Extremely error prone APIs and bad defaults. . This package contains the Python 2 version of cryptography."	Apache-2.0			
golang-github-samuel-go-zookeeper-dev	golang-github-samuel-go-zookeeper	"native ZooKeeper client for Go Native Go Zookeeper Client Library"	GPL-3.0 BSD-3-Clause			

Package name	Source	Package Description	Package License	Encryption types	Encryption Max Key Length	Comment
python-pytest-cov	python-pytest-cov	"py.test plugin to produce coverage reports This py.test plugin produces coverage reports. It supports both centralised and distributed testing across multiple hosts. It can run parallel tests on different platforms architectures and Python versions. It supports coverage of subprocesses and can produce reports in text HTML XML and annotated source code."	MIT			
python-os-cloud-config	python-os-cloud-config	"configuration seed and initialisation for TripleO OpenStack clouds This package is part of the TripleO project. TripleO is a program aimed at installing upgrading and operating OpenStack clouds using OpenStack's own cloud facilities as the foundations - building on nova neutron and heat to automate fleet management at datacentre scale (and scaling down to as few as 2 machines). . This package contains the common code for tuskar and the seed initialisation logic the post heat completion initial configuration of a cloud."	Apache-2.0			
ldirectord	resource-agents	"Monitors virtual services provided by LVS ldirectord is a stand-alone daemon to monitor services of real for virtual services provided by The Linux Virtual Server (LVS). and works with Linux-HA's heartbeat package."	GPL-2.0+ GPL-2.0 GPL-3.0 LGPL-3.0			
python3-contextlib2	contextlib2	"Backport and enhancements for the contextlib module - Python 3.x contextlib2 is a backport of the standard library's contextlib module to earlier Python versions. . It also serves as a real world proving ground for possible future enhancements to the standard library version. . This package contains the Python 3.x module."	Unknown			
python-keystoneclient-doc	python-keystoneclient	"client library for the OpenStack Keystone API - doc This is the identity service used by OpenStack for authentication (authN) and high-level authorization (authZ). It currently supports token-based authN with user/service authZ and is scalable to support OAuth SAML and OpenID in future versions. Out of the box Keystone uses SQLite for its identity store database with the option to connect to external LDAP. . This is a client for the OpenStack Keystone API. There's a Python API (the "keystoneclient" module) and a command-line script ("keystone"). . Installing this package gets you a shell command that you can use to interact with Keystone's API. Note that the "keystone" command line is currently deprecated in favor of the "openstack" one available within the "python3-openstackclient" package. . This package contains the documentation."	Apache-2.0			
python-reno-doc	python-reno	"RElease NOtes manager - doc Reno is a release notes manager for storing release notes in a git repository and then building documentation from them. . This package contains the documentation."	Apache-2.0			
python-oslo-messaging	python-oslo.messaging	"transitional dummy package for python-oslo-messaging This transitional package is safe to remove."	Apache-2.0			
heat-api-cfn	heat	"OpenStack orchestration service - CFN API Heat is a service to orchestrate multiple composite cloud applications using templates through both an OpenStack-native ReST API and a CloudFormation-compatible Query API. . This package contains the CloudFormation (CFN) API."	Apache-2.0			
python-oslo-versionedobjects	python-oslo.versionedobjects	"transitional dummy package for python-oslo-versionedobjects This transitional package to python-oslo.versionedobjects is safe to remove."	Apache-2.0			

Package name	Source	Package Description	Package License	Encryption types	Encryption Max Key Length	Comment
python3-dogpile.core	python-dogpile.core	"dogpile lock typically used in larger caching solution - Python 3.x Python dogpile.core lock allows a single thread to generate an expensive resource while other threads use the old value until the new value is ready. . Dogpile is basically the locking code extracted from the Beaker package for simple and generic usage. . This package provides the Python 3.x module."	BSD-3-Clause			
python-pyghmi	python-pyghmi	"General Hardware Management Initiative (IPMI and others) This is a pure Python implementation of IPMI protocol. ipmictl.py is a sample application to roughly show the most simple approach to invoking the library."	Apache-2.0			
python-os-brick	python-os-brick	"Library for managing local volume attaches - Python 2.x OpenStack Cinder brick library for managing local volume attaches. . Features discovery of volumes being attached to a host for many transport protocols and removal of volumes from a host. . This package contains the Python 2.x module."	Apache-2.0			
python3-dogpile.cache	python-dogpile.cache	"caching front-end based on the Dogpile lock - Python 3.x A caching API built around the concept of a "dogpile lock" which allows continued access to an expiring data value while a single thread generates a new value. . dogpile.cache builds on the dogpile.core locking system (see <a href="http://pypi.python.org/pypi/dogpile.core">http://pypi.python.org/pypi/dogpile.core</a> ) which implements the idea of "allow one creator to write while others read" in the abstract. Overall dogpile.cache is intended as a replacement to the Beaker (see <a href="http://beaker.groovie.org">http://beaker.groovie.org</a> ) caching system the internals of which are written by the same author. All the ideas of Beaker which "work" are re-implemented in dogpile.cache in a more efficient and succinct manner and all the cruft (Beaker's internals were first written in 2005) relegated to the trash heap. . This package provides the Python 3.x module."	BSD-3-Clause			
python3-bson	pymongo	"Python3 implementation of BSON for MongoDB BSON Python3 module contains all of the Binary JSON encoding and decoding logic for MongoDB."	MIT Apache-2.0			
python3-mistralclient	python-mistralclient	"OpenStack Workflow as a Service client - Python 3.x Mistral is a task management service. It is also known as Workflow as a Service. Most business processes consist of multiple distinct interconnected steps that need to be executed in a particular order in a distributed environment. One can describe such process as a set of tasks and task relations and upload such description to Mistral so that it takes care of state management correct execution order task distribution and high availability. Mistral also provides flexible task scheduling so that users can run a process according to a specified schedule (i.e. every Sunday at 4.00pm) instead of running it immediately. Such set of tasks and dependencies between them is called a workflow. Independent routes in a workflow (which in fact is a graph) are called flows and Mistral can execute them in parallel. . This package provides a cli and a Python 3.x client module."	Apache-2.0			

Package name	Source	Package Description	Package License	Encryption types	Encryption Max Key Length	Comment
python-aodh	aodh	"OpenStack Telemetry (Ceilometer) Alarming - Python libraries Ceilometer aims to deliver a Single Point Of Contact for billing systems providing all the counters they need to establish customer billing across all current and future OpenStack components. The delivery of counters must be traceable and auditable the counters must be easily extensible to support new projects and agents doing data collections should be independent of the overall system. . (A ceilometer is an instrument that measures cloud coverage.) . This package contains the Python libraries that are needed for all parts of Aodh."	Apache-2.0			
python-nose	nose	"test discovery and running of Python's unittest nose provides an alternate test discovery and running process for unittest one that is intended to mimic the behavior of py.test as much as is reasonably possible without resorting to too much magic"	GPL-2.0 Public Domain			
libqpid-proton2	qpid-proton	"C libraries for Qpid Proton Qpid Proton is a high-performance lightweight messaging library. It can be used in the widest range of messaging applications including brokers client libraries routers bridges proxies and more. Proton makes it trivial to integrate with the AMQP 1.0 ecosystem from any platform environment or language. . This package provides the shared libraries for Qpid Proton."	GPL-2.0+ GPL-2.0 BSD-3-Clause Apache-2.0			
python-testtools-doc	python-testtools	"Extensions to the Python unittest library - doc testtools (formerly pyunit3k) is a set of extensions to the Python standard library's unit testing framework. These extensions have been derived from years of experience with unit testing in Python and come from many different sources. It's hoped that these extensions will make their way into the standard library eventually. Also included are backports from Python trunk of unittest features that are not otherwise available to existing unittest users. . This package contains the documentation."	MIT			
python-psycopg2	psycopg2	"Python module for PostgreSQL psycopg is a PostgreSQL database adapter for the Python programming language (just like pygresql and popy.) This is version 2 a complete rewrite of the original code to provide new-style classes for connection and cursor objects and other sweet candies. Like the original psycopg 2 was written with the aim of being very small and fast and stable as a rock. . psycopg is different from the other database adapter because it was designed for heavily multi-threaded applications that create and destroy lots of cursors and make a conspicuous number of concurrent INSERTs or UPDATES. psycopg 2 also provides full asynchronous operations for the really brave programmer. . The main advantages of psycopg2 are that it supports the full Python DBAPI-2.0 and being thread safe at level 2. It also includes some extensions to the standard DBAPI-2.0 to allow for better thread performance."	Public Domain			
python-boto	python-boto	"Python interface to Amazon's Web Services - Python 2.x Boto is a Python interface to the infrastructure services available from Amazon. . Boto supports the following services: * Elastic Compute Cloud (EC2) * Elastic MapReduce * CloudFront * DynamoDB * SimpleDB * Relational Database Service (RDS) * Identity and Access Management (IAM) * Simple Queue Service (SQS) * CloudWatch * Route53 * Elastic Load Balancing (ELB) * Flexible Payment Service (FPS) * Simple Storage Service (S3) * Glacier * Elastic Block Store (EBS) * and many more... . This package provides the Python 2.x module."	Unknown			



Package name	Source	Package Description	Package License	Encryption types	Encryption Max Key Length	Comment
heat-common	heat	"OpenStack orchestration service - common files Heat is a service to orchestrate multiple composite cloud applications using templates through both an OpenStack-native ReST API and a CloudFormation-compatible Query API. . This package contains the common files."	Apache-2.0			
python-funcsigs	python-funcsigs	"function signatures from PEP362 - Python 2.7 funcsigs is a backport of the PEP 362 function signature features from Python 3.3's inspect module. The backport is compatible with Python 2.6 2.7 as well as 3.2 and up. . This package contains the Python 2.7 module."	Apache-2.0			
python-xstatic-bootstrap-datepicker	python-xstatic-bootstrap-datepicker	"Bootstrap-Datepicker XStatic support - Python 2.x XStatic is a packaging standard to package external (often 3rd party) static files as a Python package so they are easily usable on all operating systems with any package management system or even without one. . Many Python projects need to use some specific data files like javascript css java applets images etc. Sometimes these files belong to YOUR project (then you may want to package them separately but you could also just put them into your main package). But in many other cases those files are maintained by someone else (like jQuery javascript library or even much bigger js libraries or applications) and you definitely do not really want to merge them into your project. So you want to have static file packages but you don't want to get lots of stuff you do not want. Thus stuff required by XStatic file packages (especially the main toplevel XStatic package) tries to obey to be a MINIMAL no-fat thing. XStatic doesn't "sell" any web framework or other stuff you don't want. Maybe there will be optional XStatic extensions for all sorts of stuff but they won't be required if you just want the files. . By having static files in packages it is also easier to build virtual envs support linux/bsd/... distribution package maintainers and even windows installs using the same mechanism. . This package provides Bootstrap-Datepicker support as a Python 2.x module."	Apache-2.0			
python-dogpile.core	python-dogpile.core	"dogpile lock typically used in larger caching solution - Python 2.x Python dogpile.core lock allows a single thread to generate an expensive resource while other threads use the old value until the new"value is ready. . Dogpile is basically the locking code extracted from the Beaker package for simple and generic usage. . This package provides the Python 2.x module."	BSD-3-Clause			
python3-passlib	python-passlib	"comprehensive password hashing framework Password hashing library for Python 3 which provides cross-platform implementations of over 20 password hashing algorithms as well as a framework for managing existing password hashes. It's designed to be useful for a wide range of tasks; from verifying a hash found in /etc/shadow to providing full-strength password hashing for multi-user applications."	BSD-3-Clause			
libvotequorum7	corosync	"Standards-based cluster framework Votequorum library Corosync is a project to implement a production quality "Revised BSD" licensed implementation of all core functionalities required by openais. The project implements cutting edge research on virtual synchrony to provide 100% correct operation in the face of failures or partitionable networks with excellent performance characteristics. . The Application Interface Specification is a software API and policies which are used to develop applications that maintain service during faults. . This package contains the Votequorum library which is a library included in Corosync."	Public Domain			

Package name	Source	Package Description	Package License	Encryption types	Encryption Max Key Length	Comment
python3-pyinotify	pyinotify	"simple Linux inotify Python bindings pyinotify is a simple wrapper for the Linux inotify mechanism. . inotify is a Linux Kernel feature available since 2.6.13. inotify makes it possible for applications to easily be notified of filesystem changes. . This is the Python 3 version of the package."	GPL-2.0			
live-boot-doc	live-boot	"Live System Boot Components (documentation) The Live Systems project maintains the components to build Debian based Live systems and the official Debian Live images themselves. . live-boot contains the components to configure a live system during the boot process (early userspace). . This package contains the documentation."	GPL-3.0			
blt	blt	"graphics extension library for Tcl/Tk - run-time package BLT is a library of useful extensions for the Tcl language and the popular Tk graphical toolkit. It adds a vector and tree data type background execution and some debugging tools to Tcl and provides several new widgets for Tk including graphs bar-charts trees tabs splines and hyper-links as well as a new geometry manager drag & drop support and more. . This package contains everything you need to use BLT with your Tcl/Tk scripts and Tcl/Tk-enabled apps."	Unknown			
python-wrapt-doc	python-wrapt	"decorators wrappers and monkey patching. - doc The aim of the wrapt module is to provide a transparent object proxy for Python which can be used as the basis for the construction of function wrappers and decorator functions. . The wrapt module focuses very much on correctness. It therefore goes way beyond existing mechanisms such as functools.wraps() to ensure that decorators preserve introspectability signatures type checking abilities etc. The decorators that can be constructed using this module will work in far more scenarios than typical decorators and provide more predictable and consistent behaviour. . To ensure that the overhead is as minimal as possible a C extension module is used for performance critical components. An automatic fallback to a pure Python implementation is also provided where a target system does not have a compiler to allow the C extension to be compiled. . This package contains the documentation."	BSD-2-Clause			
python-semantic-version	python-semantic-version	"implementing the SemVer scheme - Python 2.x This small Python library provides a few tools to handle SemVer in Python. It follows strictly the 2.0.0 version of the SemVer scheme. semantic_version can also support versions which wouldn't match the semantic version scheme by converting a version such as 0.1.2.3.4 into 0.1.2+3.4. . This package contains the Python 2.x module."	BSD-2-Clause			
python-txaio-doc	python-txaio	"compatibility API between asyncio/Twisted/Trollius - doc Txaio is a helper library for writing code that runs unmodified on both Twisted and asyncio. . This is like six but for wrapping over differences between Twisted and asyncio so one can write code that runs unmodified on both (aka "source code compatibility"). In other words: users can choose if they want asyncio or Twisted as a dependency. . This package contains the documentation."	Unknown			
python-sphinx-issuetracker	sphinx-issuetracker	"Sphinx integration with different issue trackers (transitional package) This is a dummy package to aid switching to python-sphinxcontrib.issuetracker."	BSD			

Package name	Source	Package Description	Package License	Encryption types	Encryption Max Key Length	Comment
python3-cliff	python-cliff	"command line interface formulation framework - Python 3.x Cliff is a framework for building command line programs. It uses plugins to define sub-commands output formatters and other extensions. . The cliff framework is meant to be used to create multi-level commands such as Subversion and git where the main program handles some basic argument parsing and then invokes a sub-command to do the work. . This package provides the Python 3.x module."	Apache-2.0			
erlang-manpages	erlang	"Erlang/OTP manual pages Documentation for the Erlang programming language in `man' format. This documentation can be read using the command `erl -man mod' where `mod' is the name of the module you want documentation on. . This package contains all Erlang/OTP manual pages from sections other than 1. They document Erlang/OTP modules config files and applications."	LGPL-2.1 Apache-2.0	aes	256	
erlang-manpages	erlang	"Erlang/OTP manual pages Documentation for the Erlang programming language in `man' format. This documentation can be read using the command `erl -man mod' where `mod' is the name of the module you want documentation on. . This package contains all Erlang/OTP manual pages from sections other than 1. They document Erlang/OTP modules config files and applications."	LGPL-2.1 Apache-2.0	diffiehellman	unlimited	
erlang-manpages	erlang	"Erlang/OTP manual pages Documentation for the Erlang programming language in `man' format. This documentation can be read using the command `erl -man mod' where `mod' is the name of the module you want documentation on. . This package contains all Erlang/OTP manual pages from sections other than 1. They document Erlang/OTP modules config files and applications."	LGPL-2.1 Apache-2.0	blowfish	448	
erlang-manpages	erlang	"Erlang/OTP manual pages Documentation for the Erlang programming language in `man' format. This documentation can be read using the command `erl -man mod' where `mod' is the name of the module you want documentation on. . This package contains all Erlang/OTP manual pages from sections other than 1. They document Erlang/OTP modules config files and applications."	LGPL-2.1 Apache-2.0	sha	512	
erlang-manpages	erlang	"Erlang/OTP manual pages Documentation for the Erlang programming language in `man' format. This documentation can be read using the command `erl -man mod' where `mod' is the name of the module you want documentation on. . This package contains all Erlang/OTP manual pages from sections other than 1. They document Erlang/OTP modules config files and applications."	LGPL-2.1 Apache-2.0	hmac	160	
erlang-manpages	erlang	"Erlang/OTP manual pages Documentation for the Erlang programming language in `man' format. This documentation can be read using the command `erl -man mod' where `mod' is the name of the module you want documentation on. . This package contains all Erlang/OTP manual pages from sections other than 1. They document Erlang/OTP modules config files and applications."	LGPL-2.1 Apache-2.0	md5	128	
python3-saharaclient	python-saharaclient	"Client library for Openstack Sahara API server - Python 3.x module Sahara aims to provide users with simple means to provision a Hadoop cluster by specifying several parameters like Hadoop version cluster topology nodes hardware details and a few more. . This is a client for the Sahara which uses the OpenStack Image API. There's a Python API (the "saharaclient" module) and a command-line script ("sahara"). . This package provides the Python 3.x module."	Apache-2.0			

Package name	Source	Package Description	Package License	Encryption types	Encryption Max Key Length	Comment
fonts-font-awesome	fonts-font-awesome	"iconic font designed for use with Twitter Bootstrap This font contains about 249 various icon glyphs. Glyphs are designed as scalable vector graphics hence display very well at any screen size. This font was basically designed to be used with the Twitter bootstrap library but can be used in other places also. . This package also provides Sass and LESS files to use webfonts from this package."	Unknown			
python3-sphinx-argparse	sphinx-argparse	"Sphinx extension for argparse commands and options (Python 3) sphinx-argparse is an extension for Sphinx (Python documentation generator) that allows one to generate documentation for command line tools using argparse (command-line parsing library) automatically. . This package contains the extension for Sphinx running on Python 3."	Unknown			
libvirt-clients	libvirt	"programs for the libvirt library Libvirt is a C toolkit to interact with the virtualization capabilities of recent versions of Linux (and other OSes). The library aims at providing a long term stable C API for different virtualization mechanisms. It currently supports QEMU KVM XEN OpenVZ LXC and VirtualBox. . This package contains the libvirt shell virsh and other client binaries."	GPL-2.0 GPL-3.0 LGPL-3.0 MIT	sha	512	
libvirt-clients	libvirt	"programs for the libvirt library Libvirt is a C toolkit to interact with the virtualization capabilities of recent versions of Linux (and other OSes). The library aims at providing a long term stable C API for different virtualization mechanisms. It currently supports QEMU KVM XEN OpenVZ LXC and VirtualBox. . This package contains the libvirt shell virsh and other client binaries."	GPL-2.0 GPL-3.0 LGPL-3.0 MIT	md5	128	
python3-txaio	python-txaio	"compatibility API between asyncio/Twisted/Trollius - Python 3.x Txaio is a helper library for writing code that runs unmodified on both Twisted and asyncio. . This is like six but for wrapping over differences between Twisted and asyncio so one can write code that runs unmodified on both (aka "source code compatibility"). In other words: users can choose if they want asyncio or Twisted as a dependency. . This package contains the Python 3.x module."	Unknown			
python-sphinxcontrib-pecanwsme	sphinxcontrib-pecanwsme	"documenting APIs built with Pecan and WSME sphinxcontrib.pecanwsme is an extension to Sphinx for documenting APIs built with Pecan and WSME. . The Pecan Python module is a WSGI object-dispatching web framework designed to be lean and fast with few dependencies. Pecan comes bundled with a lightweight WSGI development server based on Python's wsgiref.simpleserver. Pecan applications also come with an interactive Python shell which can be used to execute expressions in an environment very similar to the one your application runs in (using the "pecan shell" command). . WSGI is the "Web Server Gateway Interface". It defines a simple and universal interface between web servers and web applications or frameworks for the Python programming language. . Web Service Made Easy (WSME) simplify the writing of REST web services by providing simple yet powerful typing which removes the need to directly manipulate the request and the response objects."	Apache-2.0			

Package name	Source	Package Description	Package License	Encryption types	Encryption Max Key Length	Comment
corosync-dev	corosync	"Standards-based cluster framework (transitional package) The corosync project is a project to implement a production quality "Revised BSD" licensed implementation of all core functionalities required by openais. The project implements cutting edge research on virtual synchrony to provide 100% correct operation in the face of failures or partitionable networks with excellent performance characteristics. . The Application Interface Specification is a software API and policies which are used to develop applications that maintain service during faults. . This package exists for historical reasons to assure a smooth upgrade from further versions to the libcorosync-common-dev package."	Public Domain			
python-pecan	python-pecan	"WSGI object-dispatching web framework - Python 2.x The Pecan Python module is a WSGI object-dispatching web framework designed to be lean and fast with few dependencies. Pecan comes bundled with a lightweight WSGI development server based on Python's wsgiref.simpleserver. Pecan applications also come with an interactive Python shell which can be used to execute expressions in an environment very similar to the one your application runs in (using the "pecan shell" command). . WSGI is the "Web Server Gateway Interface". It defines a simple and universal interface between web servers and web applications or frameworks for the Python programming language. . This package contains the Python 2.x module."	GPL-2.0 BSD-3-Clause MIT			
murano-engine	murano	"cloud-ready application catalog - Engine server Murano Project introduces an application catalog which allows application developers and cloud administrators to publish various cloud-ready applications in a browsable categorised catalog which may be used by the cloud users (including the inexperienced ones) to pick-up the needed applications and services and composes the reliable environments out of them in a "push-the-button" manner. . This package contains the Engine server."	Apache-2.0			
mistral-dashboard-doc	mistral-dashboard	"mistral-dashboard is an extension for OpenStack Dashboard that provides UI for mistral. With mistral-dashboard user is able to easily manage and control wrok-flows running applications and created environments alongside with all other OpenStack resources. . This package contains the documentation for Mistral Horizon plugin."	Apache-2.0			
subunit	subunit	"command line tools for processing Subunit streams subunit is a protocol for test activity serialisation deserialisation. This permits executing tests remotely or saving the result of test runs for later introspection. . The subunit package includes the subunit command line tools: subunit-diff subunit-filter subunit-stats tap2subunit subunit2pyunit subunit-ls subunit-tags subunit2gtk"	BSD-3-Clause Apache-2.0			
openjdk-8-jdk	openjdk-8	"OpenJDK Development Kit (JDK) OpenJDK is a development environment for building applications applets and components using the Java programming language. . The packages are built using the IcedTea build support and patches from the IcedTea project."	unknown			
galera-3	galera-3	"Replication framework for transactional applications Galera is a fast synchronous multimaster wsrep provider (replication engine) for transactional databases and similar applications. For more information about wsrep API see <a href="http://launchpad.net/wsrep">http://launchpad.net/wsrep</a> . For a description of Galera replication engine see <a href="http://galeracluster.com">http://galeracluster.com</a> . . This package contains the Galera library/plugin."	GPL-2.0 GFDL-1.3 BSD-3-Clause			

Package name	Source	Package Description	Package License	Encryption types	Encryption Max Key Length	Comment
python-pymongo-doc	pymongo	"Python interface to the MongoDB document-oriented database (documentation) MongoDB is a high-performance open source schema-free document-oriented data store. Pymongo provides an interface to easily access it from Python. . This package contains the HTML documentation."	MIT Apache-2.0			
python-pyev	python-pyev	"Python libev interface. - Python 2.7 libev is an event loop you register interest in certain events (such as a file descriptor being readable or a timeout occurring) and it will manage these event sources and provide your program with events. . This package contains the Python 2.7 module."	MIT			
keystone-doc	keystone	"OpenStack identity service - documentation This is the identity service used by OpenStack for authentication (authN) and high-level authorization (authZ). It currently supports token-based authN with user/service authZ and is scalable to support OAuth SAML and OpenID in future versions. Out of the box Keystone uses SQLite for its identity store database with the option to connect to external LDAP. . This package contains the documentation."	Apache-2.0			
python-oslo-vmware	python-oslo-vmware	"transitional dummy package for python-oslo-vmware This transitional package is safe to remove."	Apache-2.0			
golang-uuid-dev	golang-github-pborman-uuid	"Transitional package for golang-github-pborman-uuid-dev This is a transitional package to ease upgrades to the golang-github-pborman-uuid-dev package."	BSD-3-Clause			
python-ceph	ceph	"Meta-package for python libraries for the Ceph libraries Ceph is a massively scalable open-source distributed storage system that runs on commodity hardware and delivers object block and file system storage. . This package is a metapackage for all python bindings."	GPL-2.0+ GPL-2.0 GPL-3.0 LGPL-2.0 LGPL-2.1 BSD-2-Clause BSD-3-Clause Public Domain Apache-2.0	crush	unlimited	cephhash
python-ceph	ceph	"Meta-package for python libraries for the Ceph libraries Ceph is a massively scalable open-source distributed storage system that runs on commodity hardware and delivers object block and file system storage. . This package is a metapackage for all python bindings."	GPL-2.0+ GPL-2.0 GPL-3.0 LGPL-2.0 LGPL-2.1 BSD-2-Clause BSD-3-Clause Public Domain Apache-2.0	sha	512	
python-ceph	ceph	"Meta-package for python libraries for the Ceph libraries Ceph is a massively scalable open-source distributed storage system that runs on commodity hardware and delivers object block and file system storage. . This package is a metapackage for all python bindings."	GPL-2.0+ GPL-2.0 GPL-3.0 LGPL-2.0 LGPL-2.1 BSD-2-Clause BSD-3-Clause Public Domain Apache-2.0	aes	256	
python-ceph	ceph	"Meta-package for python libraries for the Ceph libraries Ceph is a massively scalable open-source distributed storage system that runs on commodity hardware and delivers object block and file system storage. . This package is a metapackage for all python bindings."	GPL-2.0+ GPL-2.0 GPL-3.0 LGPL-2.0 LGPL-2.1 BSD-2-Clause BSD-3-Clause Public Domain Apache-2.0	abacus	0	
python-ceph	ceph	"Meta-package for python libraries for the Ceph libraries Ceph is a massively scalable open-source distributed storage system that runs on commodity hardware and delivers object block and file system storage. . This package is a metapackage for all python bindings."	GPL-2.0+ GPL-2.0 GPL-3.0 LGPL-2.0 LGPL-2.1 BSD-2-Clause BSD-3-Clause Public Domain Apache-2.0	md5	128	
python3-six	six	"Python 2 and 3 compatibility library (Python 3 interface) Six is a Python 2 and 3 compatibility library. It provides utility functions for smoothing over the differences between the Python versions with the goal of writing Python code that is compatible on both Python versions. . This package provides Six on the Python 3 module path. It is complemented by python-six."	Unknown			

Package name	Source	Package Description	Package License	Encryption types	Encryption Max Key Length	Comment
cinder-common	cinder	"OpenStack block storage system - common files Cinder is a block Storage-as-a-Service system for the OpenStack cloud computing suite. It re-implements the features of Nova-volume which it directly replaces. . Cinder uses LVM partitions of your volume servers in order to provide iSCSI permanent block storage devices for your virtual machines running on Nova. It also has back-end drivers for many hardware and software storage solutions like Ceph NFS Net-APP etc. . This package contains common files and configuration that are needed by all the daemon packages of Cinder."	Apache-2.0			
golang-objx-dev	golang-objx	"Go package for dealing with maps slices JSON and other data. Objx provides the `objx.Map` type which is a `map[string]interface{}` that exposes a powerful `Get` method (among others) that allows you to easily and quickly get access to data within the map without having to worry too much about type assertions missing data default values etc. . This package contains the source."	MIT Apache-2.0			
libjs-sphinxdoc	sphinx	"JavaScript support for Sphinx documentation Sphinx is a tool for producing documentation for Python projects using reStructuredText as markup language. . This package provides JavaScript code for documentation generated by Sphinx."	MIT Public Domain			
python-dogpile.cache-doc	python-dogpile.cache	"caching front-end based on the Dogpile lock - doc A caching API built around the concept of a "dogpile lock" which allows continued access to an expiring data value while a single thread generates a new value. . dogpile.cache builds on the dogpile.core locking system (see <a href="http://pypi.python.org/pypi/dogpile.core">http://pypi.python.org/pypi/dogpile.core</a> ) which implements the idea of "allow one creator to write while others read" in the abstract. Overall dogpile.cache is intended as a replacement to the Beaker (see <a href="http://beaker.groovie.org">http://beaker.groovie.org</a> ) caching system the internals of which are written by the same author. All the ideas of Beaker which "work" are re-implemented in dogpile.cache in a more efficient and succinct manner and all the cruft (Beaker's internals were first written in 2005) relegated to the trash heap. . This package provides the documentation."	BSD-3-Clause			
erlang-public-key	erlang	"Erlang/OTP public key infrastructure Provides functions to handle public key infrastructure from RFC 3280 (X.509 certificates) and some parts of the PKCS-standard."	LGPL-2.1 Apache-2.0	aes	256	
erlang-public-key	erlang	"Erlang/OTP public key infrastructure Provides functions to handle public key infrastructure from RFC 3280 (X.509 certificates) and some parts of the PKCS-standard."	LGPL-2.1 Apache-2.0	diffiehellman	unlimited	
erlang-public-key	erlang	"Erlang/OTP public key infrastructure Provides functions to handle public key infrastructure from RFC 3280 (X.509 certificates) and some parts of the PKCS-standard."	LGPL-2.1 Apache-2.0	blowfish	448	
erlang-public-key	erlang	"Erlang/OTP public key infrastructure Provides functions to handle public key infrastructure from RFC 3280 (X.509 certificates) and some parts of the PKCS-standard."	LGPL-2.1 Apache-2.0	sha	512	
erlang-public-key	erlang	"Erlang/OTP public key infrastructure Provides functions to handle public key infrastructure from RFC 3280 (X.509 certificates) and some parts of the PKCS-standard."	LGPL-2.1 Apache-2.0	hmac	160	
erlang-public-key	erlang	"Erlang/OTP public key infrastructure Provides functions to handle public key infrastructure from RFC 3280 (X.509 certificates) and some parts of the PKCS-standard."	LGPL-2.1 Apache-2.0	md5	128	

Package name	Source	Package Description	Package License	Encryption types	Encryption Max Key Length	Comment
libcrmservice-dev	pacemaker	"cluster resource manager service library development At its core Pacemaker is a distributed finite state machine capable of co-ordinating the startup and recovery of inter-related services across a set of machines. . Pacemaker understands many different resource types (OCF SYSV systemd) and can accurately model the relationships between them (colocation ordering). . It can even use technology such as Docker to automatically isolate the resources managed by the cluster. . This package contains the headers and other necessary files to build applications or libraries that use the service library."	GPL-2.0+ GPL-2.0 LGPL-2.1	md5	128	
mesos-dns	mesos-dns	"DNS-based service discovery for Mesos. Mesos-DNS supports service discovery in Apache Mesos clusters. It allows applications and services running on Mesos to find each other through the domain name system (DNS) similarly to how services discover each other throughout the Internet."	Apache-2.0			
python3-xstatic-hogan	python-xstatic-hogan	"Hogan.js XStatic support - Python 3.x XStatic is a packaging standard to package external (often 3rd party) static files as a Python package so they are easily usable on all operating systems with any package management system or even without one. . Many Python projects need to use some specific data files like javascript css java applets images etc. Sometimes these files belong to YOUR project (then you may want to package them separately but you could also just put them into your main package). But in many other cases those files are maintained by someone else (like jQuery javascript library or even much bigger js libraries or applications) and you definitely do not really want to merge them into your project. So you want to have static file packages but you don?t want to get lots of stuff you do not want. Thus stuff required by XStatic file packages (especially the main toplevel XStatic package) tries to obey to be a MINIMAL no-fat thing. XStatic doesn't "sell" any web framework or other stuff you don't want. Maybe there will be optional XStatic extensions for all sorts of stuff but they won't be required if you just want the files. . By having static files in packages it is also easier to build virtual envs support linux/bsd/... distribution package maintainers and even windows installs using the same mechanism. . This package provides Hogan.js support as a Python 3.x module."	Apache-2.0			
python3-pymongo	pymongo	"Python3 interface to the MongoDB document-oriented database MongoDB is a high-performance open source schema-free document-oriented data store. Pymongo provides an interface to easily access it from Python3. Consider installing the python-pymongo-ext C extension to improve performance."	MIT Apache-2.0			
golang-github-mesos-mesos-go-dev	golang-github-mesos-mesos-go	"Go language bindings for Apache Mesos Pure Go language bindings for Apache Mesos. As with other pure implementation mesos-go uses the HTTP wire protocol to communicate directly with a running Mesos master and its slave instances. One of the objectives of this project is to provide an idiomatic Go API that makes it super easy to create Mesos frameworks using Go."	GPL-3.0 Apache-2.0			
libjs-angularjs-smart-table	libjs-angularjs-smart-table	"table module for angular js Smart table is a table module for angular js. It allows one to quickly compose a table in a declarative way including sorting filtering row selection pagination. It is lightweight (around 3kb minified) and has no other dependencies than Angular itself."	Unknown			



Package name	Source	Package Description	Package License	Encryption types	Encryption Max Key Length	Comment
python-xstatic-hogan	python-xstatic-hogan	"Hogan.js XStatic support - Python 2.x XStatic is a packaging standard to package external (often 3rd party) static files as a Python package so they are easily usable on all operating systems with any package management system or even without one. . Many Python projects need to use some specific data files like javascript css java applets images etc. Sometimes these files belong to YOUR project (then you may want to package them separately but you could also just put them into your main package). But in many other cases those files are maintained by someone else (like jQuery javascript library or even much bigger js libraries or applications) and you definitely do not really want to merge them into your project. So you want to have static file packages but you don?t want to get lots of stuff you do not want. Thus stuff required by XStatic file packages (especially the main toplevel XStatic package) tries to obey to be a MINIMAL no-fat thing. XStatic doesn't "sell" any web framework or other stuff you don't want. Maybe there will be optional XStatic extensions for all sorts of stuff but they won't be required if you just want the files. . By having static files in packages it is also easier to build virtual envs support linux/bsd/... distribution package maintainers and even windows installs using the same mechanism. . This package provides Hogan.js support as a Python 2.x module."	Apache-2.0			
qemu-system-common	qemu	"QEMU full system emulation binaries (common files) QEMU is a fast processor emulator: currently the package supports ARM CRIS i386 M68k (ColdFire) MicroBlaze MIPS PowerPC SH4 SPARC and x86-64 emulation. By using dynamic translation it achieves reasonable speed while being easy to port on new host CPUs. . This package provides common files needed for target-specific full system emulation (qemu-system-*) packages."	GPL-2.0 MIT	crypt	65	
qemu-system-common	qemu	"QEMU full system emulation binaries (common files) QEMU is a fast processor emulator: currently the package supports ARM CRIS i386 M68k (ColdFire) MicroBlaze MIPS PowerPC SH4 SPARC and x86-64 emulation. By using dynamic translation it achieves reasonable speed while being easy to port on new host CPUs. . This package provides common files needed for target-specific full system emulation (qemu-system-*) packages."	GPL-2.0 MIT	aes	256	
qemu-system-common	qemu	"QEMU full system emulation binaries (common files) QEMU is a fast processor emulator: currently the package supports ARM CRIS i386 M68k (ColdFire) MicroBlaze MIPS PowerPC SH4 SPARC and x86-64 emulation. By using dynamic translation it achieves reasonable speed while being easy to port on new host CPUs. . This package provides common files needed for target-specific full system emulation (qemu-system-*) packages."	GPL-2.0 MIT	des	56	
qemu-system-common	qemu	"QEMU full system emulation binaries (common files) QEMU is a fast processor emulator: currently the package supports ARM CRIS i386 M68k (ColdFire) MicroBlaze MIPS PowerPC SH4 SPARC and x86-64 emulation. By using dynamic translation it achieves reasonable speed while being easy to port on new host CPUs. . This package provides common files needed for target-specific full system emulation (qemu-system-*) packages."	GPL-2.0 MIT	tripledes	168	

Package name	Source	Package Description	Package License	Encryption types	Encryption Max Key Length	Comment
qemu-system-common	qemu	"QEMU full system emulation binaries (common files) QEMU is a fast processor emulator: currently the package supports ARM CRIS i386 M68k (ColdFire) MicroBlaze MIPS PowerPC SH4 SPARC and x86-64 emulation. By using dynamic translation it achieves reasonable speed while being easy to port on new host CPUs. . This package provides common files needed for target-specific full system emulation (qemu-system-*) packages."	GPL-2.0 MIT	sha	512	
python3-xstatic-d3	python-xstatic-d3	"D3 JS XStatic support - Python 3.x XStatic is a packaging standard to package external (often 3rd party) static files as a Python package so they are easily usable on all operating systems with any package management system or even without one. . Many Python projects need to use some specific data files like javascript css java applets images etc. Sometimes these files belong to YOUR project (then you may want to package them separately but you could also just put them into your main package). But in many other cases those files are maintained by someone else (like jQuery javascript library or even much bigger js libraries or applications) and you definitely do not really want to merge them into your project. So you want to have static file packages but you don't want to get lots of stuff you do not want. Thus stuff required by XStatic file packages (especially the main toplevel XStatic package) tries to obey to be a MINIMAL no-fat thing. XStatic doesn't "sell" any web framework or other stuff you don't want. Maybe there will be optional XStatic extensions for all sorts of stuff but they won't be required if you just want the files. . By having static files in packages it is also easier to build virtual envs support linux/bsd/... distribution package maintainers and even windows installs using the same mechanism. . This package provides D3 JS support as a Python 3.x module."	BSD-3-Clause			
python3-csscompressor	python-csscompressor	"Python port of YUI CSS Compressor - Python 3.x The Python csscompressor package provides an almost exact port of YUI CSS Compressor. It passes all original unittests. . This package contains the Python 3.x module."	BSD-3-Clause			
pacemaker-cli-utils	pacemaker	"cluster resource manager command line utilities At its core Pacemaker is a distributed finite state machine capable of co-ordinating the startup and recovery of inter-related services across a set of machines. . Pacemaker understands many different resource types (OCF SYSV systemd) and can accurately model the relationships between them (colocation ordering). . It can even use technology such as Docker to automatically isolate the resources managed by the cluster. . This package contains those command line utilities of the Pacemaker cluster manager which work on remote nodes as well."	GPL-2.0+ GPL-2.0 LGPL-2.1	md5	128	
erlang-edoc	erlang	"Erlang/OTP module for generating documentation EDoc is the Erlang program documentation generator. Inspired by the Javadoc tool for the Java programming language EDoc is adapted to the conventions of the Erlang world."	LGPL-2.1 Apache-2.0	aes	256	
erlang-edoc	erlang	"Erlang/OTP module for generating documentation EDoc is the Erlang program documentation generator. Inspired by the Javadoc tool for the Java programming language EDoc is adapted to the conventions of the Erlang world."	LGPL-2.1 Apache-2.0	diffiehellman	unlimited	
erlang-edoc	erlang	"Erlang/OTP module for generating documentation EDoc is the Erlang program documentation generator. Inspired by the Javadoc tool for the Java programming language EDoc is adapted to the conventions of the Erlang world."	LGPL-2.1 Apache-2.0	blowfish	448	

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erlang-edoc	erlang	"Erlang/OTP module for generating documentation EDoc is the Erlang program documentation generator. Inspired by the Javadoc tool for the Java programming language EDoc is adapted to the conventions of the Erlang world."	LGPL-2.1 Apache-2.0	sha	512	
erlang-edoc	erlang	"Erlang/OTP module for generating documentation EDoc is the Erlang program documentation generator. Inspired by the Javadoc tool for the Java programming language EDoc is adapted to the conventions of the Erlang world."	LGPL-2.1 Apache-2.0	hmac	160	
erlang-edoc	erlang	"Erlang/OTP module for generating documentation EDoc is the Erlang program documentation generator. Inspired by the Javadoc tool for the Java programming language EDoc is adapted to the conventions of the Erlang world."	LGPL-2.1 Apache-2.0	md5	128	
libsubunit0	subunit	"Unit testing protocol - C/C++ shared library subunit is a protocol for test activity reporting. This permits executing tests remotely or saving the result of test runs for later introspection. . The libsubunit0 package contains the C shared library."	BSD-3-Clause Apache-2.0			
python-rbd	ceph	"Python libraries for the Ceph librbd library Ceph is a massively scalable open-source distributed storage system that runs on commodity hardware and delivers object block and file system storage. . This package contains Python libraries for interacting with Ceph's RBD block device library."	GPL-2.0+ GPL-2.0 GPL-3.0 LGPL-2.0 LGPL-2.1 BSD-2-Clause BSD-3-Clause Public Domain Apache-2.0	crush	unlimited	cephhash
python-rbd	ceph	"Python libraries for the Ceph librbd library Ceph is a massively scalable open-source distributed storage system that runs on commodity hardware and delivers object block and file system storage. . This package contains Python libraries for interacting with Ceph's RBD block device library."	GPL-2.0+ GPL-2.0 GPL-3.0 LGPL-2.0 LGPL-2.1 BSD-2-Clause BSD-3-Clause Public Domain Apache-2.0	sha	512	
python-rbd	ceph	"Python libraries for the Ceph librbd library Ceph is a massively scalable open-source distributed storage system that runs on commodity hardware and delivers object block and file system storage. . This package contains Python libraries for interacting with Ceph's RBD block device library."	GPL-2.0+ GPL-2.0 GPL-3.0 LGPL-2.0 LGPL-2.1 BSD-2-Clause BSD-3-Clause Public Domain Apache-2.0	aes	256	
python-rbd	ceph	"Python libraries for the Ceph librbd library Ceph is a massively scalable open-source distributed storage system that runs on commodity hardware and delivers object block and file system storage. . This package contains Python libraries for interacting with Ceph's RBD block device library."	GPL-2.0+ GPL-2.0 GPL-3.0 LGPL-2.0 LGPL-2.1 BSD-2-Clause BSD-3-Clause Public Domain Apache-2.0	abacus	0	
python-rbd	ceph	"Python libraries for the Ceph librbd library Ceph is a massively scalable open-source distributed storage system that runs on commodity hardware and delivers object block and file system storage. . This package contains Python libraries for interacting with Ceph's RBD block device library."	GPL-2.0+ GPL-2.0 GPL-3.0 LGPL-2.0 LGPL-2.1 BSD-2-Clause BSD-3-Clause Public Domain Apache-2.0	md5	128	

Package name	Source	Package Description	Package License	Encryption types	Encryption Max Key Length	Comment
libgf-complete1	gf-complete	"Galois Field Arithmetic - shared library Galois Field arithmetic forms the backbone of erasure-coded storage systems most famously the Reed-Solomon erasure code. A Galois Field is defined over $w$ -bit words and is termed $GF(2^w)$ . As such the elements of a Galois Field are the integers $0 \ 1 \ \dots \ 2^w - 1$ . Galois Field arithmetic defines addition and multiplication over these closed sets of integers in such a way that they work as you would hope they would work. Specifically every number has a unique multiplicative inverse. Moreover there is a value typically the value $2$ which has the property that you can enumerate all of the non-zero elements of the field by taking that value to successively higher powers. . This package contains the shared library."	BSD-3-Clause			
python3-pykmp	python-pykmp	"KMIP v1.1 library - Python 3.x PyKMIP is a Python implementation of the Key Management Interoperability Protocol (KMIP) specification supporting version 1.1 of the KMIP standard. The KMIP standard is governed by the Organization for the Advancement of Structured Information Standards (OASIS) and specifies a client/server-based protocol to perform key certificate and secret object management including storage and maintenance operations. . The PyKMIP library currently provides a KMIP client and server supporting the following operations for the KMIP SymmetricKey managed object: * Create * Register * Get * Destroy . This package contains the Python 3.x module."	Apache-2.0			
python-requests	requests	"elegant and simple HTTP library for Python2 built for human beings Requests allow you to send HTTP/1.1 requests. You can add headers form data multipart files and parameters with simple Python dictionaries and access the response data in the same way. It's powered by httplib and urllib3 but it does all the hard work and crazy hacks for you. . Features . - International Domains and URLs - Keep-Alive & Connection Pooling - Sessions with Cookie Persistence - Browser-style SSL Verification - Basic/Digest Authentication - Elegant Key/Value Cookies - Automatic Decompression - Unicode Response Bodies - Multipart File Uploads - Connection Timeouts"	GPL-2.0 LGPL-2.1 Apache-2.0			
python-idna	python-idna	"Python IDNA2008 (RFC 5891) handling (Python 2) A library to support the Internationalised Domain Names in Applications (IDNA) protocol as specified in RFC 5891. This version of the protocol is often referred to as ?IDNA2008? and can produce different results from the earlier standard from 2003. . The library is also intended to act as a suitable drop-in replacement for the ?encodings.idna? module that comes with the Python standard library but currently only supports the older 2003 specification. . This package contains the module for Python 2."	BSD-3-Clause			

Package name	Source	Package Description	Package License	Encryption types	Encryption Max Key Length	Comment
<a href="#">python3-xstatic-term.js</a>	<a href="#">python-xstatic-term.js</a>	"term.js XStatic support - Python 3.x XStatic is a Python web development tool for handling required static data files from external projects such as CSS images and JavaScript. It provides a lightweight infrastructure to manage them via Python modules that your app can depend on in a portable virtualenv-friendly way instead of using embedded copies. . Term.js is a full xterm clone written in javascript. It is a fork from the original work of Fabrice Bellard's javascript vt100 for jslinux (with the author's permission. The original design remains. The terminal itself has been extended to include xterm CSI codes among other features. . This package contains the Python 3.x module."	Apache-2.0			
libvirt-doc	libvirt	"documentation for the libvirt library Libvirt is a C toolkit to interact with the virtualization capabilities of recent versions of Linux (and other OSes). The library aims at providing a long term stable C API for different virtualization mechanisms. It currently supports QEMU KVM XEN OpenVZ LXC and VirtualBox. . This package contains the documentation."	GPL-2.0 GPL-3.0 LGPL-3.0 MIT	sha	512	
libvirt-doc	libvirt	"documentation for the libvirt library Libvirt is a C toolkit to interact with the virtualization capabilities of recent versions of Linux (and other OSes). The library aims at providing a long term stable C API for different virtualization mechanisms. It currently supports QEMU KVM XEN OpenVZ LXC and VirtualBox. . This package contains the documentation."	GPL-2.0 GPL-3.0 LGPL-3.0 MIT	md5	128	
python3-django-classy-tags	django-classy-tags	"Class based template tags for Django projects (Python3 version) django-classy-tags is an approach at making writing template tags in Django easier shorter and more fun. It provides an extensible argument parser which reduces most of the boiler plate code you usually have to write when coding custom template tags. . django-classy-tags does no magic by design. Thus you will not get automatic registering/loading of your tags like other solutions provide. You will not get automatic argument guessing from function signatures but rather you have to declare what arguments your tag accepts. There is no magic in your template tag class either it?s just a subclass of django.template.Node which invokes a parser class to parse the arguments when it?s initialized and resolves those arguments into keyword arguments in it?s render method and calls its render_tag method with those keyword arguments. . This package contains the Python 3 version of the library."	BSD-3-Clause			
python-ecdsa	python-ecdsa	"ECDSA cryptographic signature library (Python 2) This is an easy-to-use implementation of ECDSA cryptography (Elliptic Curve Digital Signature Algorithm) implemented purely in Python. With this library you can quickly create keypairs (signing key and verifying key) sign messages and verify the signatures. The keys and signatures are very short making them easy to handle and incorporate into other protocols. . This package contains the module for Python 2."	Public Domain			

Package name	Source	Package Description	Package License	Encryption types	Encryption Max Key Length	Comment
nova-cells	nova	"Openstack Compute - cells OpenStack is a reliable cloud infrastructure. Its mission is to produce the ubiquitous cloud computing platform that will meet the needs of public and private cloud providers regardless of size by being simple to implement and massively scalable. . OpenStack Compute codenamed Nova is a cloud computing fabric controller designed to be modular and easy to extend and adapt. In addition to its "native" OpenStack API it also supports the Amazon EC2 API and it supports many different database backends (including SQLite MySQL and PostgreSQL) hypervisors (KVM Xen) and user directory systems (LDAP SQL). . This is the Nova cells component."	Apache-2.0			
python-oslo.serialization-doc	python-oslo.serialization	"utilities for serialization especially JSON - doc The oslo.serialization library contain utilities for working with serialization features especially working with JSON. . This package contains the documentation."	Apache-2.0			
libcacard0	qemu	"Virtual Common Access Card (CAC) Emulator (runtime library) This emulator is designed to provide emulation of actual smart cards to a virtual card reader running in a guest virtual machine. The emulated smart cards can be representations of real smart cards where the necessary functions such as signing card removal/insertion etc. are mapped to real physical cards which are shared with the client machine the emulator is running on or the cards could be pure software constructs. . This package provides the runtime library."	GPL-2.0 MIT	crypt	65	
libcacard0	qemu	"Virtual Common Access Card (CAC) Emulator (runtime library) This emulator is designed to provide emulation of actual smart cards to a virtual card reader running in a guest virtual machine. The emulated smart cards can be representations of real smart cards where the necessary functions such as signing card removal/insertion etc. are mapped to real physical cards which are shared with the client machine the emulator is running on or the cards could be pure software constructs. . This package provides the runtime library."	GPL-2.0 MIT	aes	256	
libcacard0	qemu	"Virtual Common Access Card (CAC) Emulator (runtime library) This emulator is designed to provide emulation of actual smart cards to a virtual card reader running in a guest virtual machine. The emulated smart cards can be representations of real smart cards where the necessary functions such as signing card removal/insertion etc. are mapped to real physical cards which are shared with the client machine the emulator is running on or the cards could be pure software constructs. . This package provides the runtime library."	GPL-2.0 MIT	des	56	
libcacard0	qemu	"Virtual Common Access Card (CAC) Emulator (runtime library) This emulator is designed to provide emulation of actual smart cards to a virtual card reader running in a guest virtual machine. The emulated smart cards can be representations of real smart cards where the necessary functions such as signing card removal/insertion etc. are mapped to real physical cards which are shared with the client machine the emulator is running on or the cards could be pure software constructs. . This package provides the runtime library."	GPL-2.0 MIT	tripledes	168	

Package name	Source	Package Description	Package License	Encryption types	Encryption Max Key Length	Comment
libcacard0	qemu	"Virtual Common Access Card (CAC) Emulator (runtime library) This emulator is designed to provide emulation of actual smart cards to a virtual card reader running in a guest virtual machine. The emulated smart cards can be representations of real smart cards where the necessary functions such as signing card removal/insertion etc. are mapped to real physical cards which are shared with the client machine the emulator is running on or the cards could be pure software constructs. . This package provides the runtime library."	GPL-2.0 MIT	sha	512	
ceph-fs-common	ceph	"common utilities to mount and interact with a ceph file system Ceph is a distributed network file system designed to provide excellent performance reliability and scalability. This is a collection of common tools including the mount utility that allows one to mount the Ceph file system with the kernel client."	GPL-2.0+ GPL-2.0 GPL-3.0 LGPL-2.0 LGPL-2.1 BSD-2-Clause BSD-3-Clause Public Domain Apache-2.0	crush	unlimited	cephhash
ceph-fs-common	ceph	"common utilities to mount and interact with a ceph file system Ceph is a distributed network file system designed to provide excellent performance reliability and scalability. This is a collection of common tools including the mount utility that allows one to mount the Ceph file system with the kernel client."	GPL-2.0+ GPL-2.0 GPL-3.0 LGPL-2.0 LGPL-2.1 BSD-2-Clause BSD-3-Clause Public Domain Apache-2.0	sha	512	
ceph-fs-common	ceph	"common utilities to mount and interact with a ceph file system Ceph is a distributed network file system designed to provide excellent performance reliability and scalability. This is a collection of common tools including the mount utility that allows one to mount the Ceph file system with the kernel client."	GPL-2.0+ GPL-2.0 GPL-3.0 LGPL-2.0 LGPL-2.1 BSD-2-Clause BSD-3-Clause Public Domain Apache-2.0	aes	256	
ceph-fs-common	ceph	"common utilities to mount and interact with a ceph file system Ceph is a distributed network file system designed to provide excellent performance reliability and scalability. This is a collection of common tools including the mount utility that allows one to mount the Ceph file system with the kernel client."	GPL-2.0+ GPL-2.0 GPL-3.0 LGPL-2.0 LGPL-2.1 BSD-2-Clause BSD-3-Clause Public Domain Apache-2.0	abacus	0	
ceph-fs-common	ceph	"common utilities to mount and interact with a ceph file system Ceph is a distributed network file system designed to provide excellent performance reliability and scalability. This is a collection of common tools including the mount utility that allows one to mount the Ceph file system with the kernel client."	GPL-2.0+ GPL-2.0 GPL-3.0 LGPL-2.0 LGPL-2.1 BSD-2-Clause BSD-3-Clause Public Domain Apache-2.0	md5	128	
python-pkg-resources	python-setuptools	"Package Discovery and Resource Access using pkg_resources The pkg_resources module provides an API for Python libraries to access their resource files and for extensible applications and frameworks to automatically discover plugins. It also provides runtime support for using C extensions that are inside zipfile-format eggs support for merging packages that have separately-distributed modules or subpackages and APIs for managing Python's current "working set" of active packages."	Unknown			

Package name	Source	Package Description	Package License	Encryption types	Encryption Max Key Length	Comment
python3-aioeventlet	python-aioeventlet	"asyncio event loop scheduling callbacks in eventlet - Python 3.x aioeventlet implements the asyncio API (PEP 3156) on top of eventlet. It makes possible to write asyncio code in a project currently written for eventlet. . aioeventlet allows one to use greenthreads in asyncio coroutines and to use asyncio coroutines tasks and futures in greenthreads: see link_future() and wrap_green thread() functions. . The main visible difference between aioeventlet and trollius is the behaviour of run_forever(): run_forever() blocks with trollius whereas it runs in a greenthread with aioeventlet. It means that aioeventlet event loop can run in an greenthread while the Python main thread runs other greenthreads in parallel. . This package contains the Python 3.x module."	Apache-2.0			
erlang-jinterface	erlang	"Java communication tool to Erlang Jinterface Java package contains java classes which help you integrate programs written in Java with Erlang."	LGPL-2.1 Apache-2.0	aes	256	
erlang-jinterface	erlang	"Java communication tool to Erlang Jinterface Java package contains java classes which help you integrate programs written in Java with Erlang."	LGPL-2.1 Apache-2.0	diffiehellman	unlimited	
erlang-jinterface	erlang	"Java communication tool to Erlang Jinterface Java package contains java classes which help you integrate programs written in Java with Erlang."	LGPL-2.1 Apache-2.0	blowfish	448	
erlang-jinterface	erlang	"Java communication tool to Erlang Jinterface Java package contains java classes which help you integrate programs written in Java with Erlang."	LGPL-2.1 Apache-2.0	sha	512	
erlang-jinterface	erlang	"Java communication tool to Erlang Jinterface Java package contains java classes which help you integrate programs written in Java with Erlang."	LGPL-2.1 Apache-2.0	hmac	160	
erlang-jinterface	erlang	"Java communication tool to Erlang Jinterface Java package contains java classes which help you integrate programs written in Java with Erlang."	LGPL-2.1 Apache-2.0	md5	128	
python-gunicorn	gunicorn	"Event-based HTTP/WSGI server Green Unicorn (gunicorn) is an HTTP/WSGI server designed to serve fast clients or sleepy applications. That is to say; behind a buffering front-end server such as nginx or lighttpd. . * Optional support for Eventlet Tornado and Gevent to provide asynchronous long-polling ("Comet") connections. * Process management: Gunicorn reaps and restarts workers that die. * Easy integration with Django and Paster compatible applications (Pylons TurboGears 2 etc. * Load balancing via pre-fork and a shared socket * Graceful worker process restarts * Upgrading without losing connections * Decode chunked transfers on-the-fly allowing upload progress notifications or stream-based protocols over HTTP . This is the Python 2 library."	GPL-3.0 BSD MIT			
python-cffi-backend	python-cffi	"Foreign Function Interface for Python calling C code - backend Convenient and reliable way of calling C code from Python. . The aim of this project is to provide a convenient and reliable way of calling C code from Python. It keeps Python logic in Python and minimises the C required. It is able to work at either the C API or ABI level unlike most other approaches that only support the ABI level. . This package contains the runtime support for pre-built cffi modules."	Unknown			



Package name	Source	Package Description	Package License	Encryption types	Encryption Max Key Length	Comment
python3-heatclient	python-heatclient	"client library and CLI for OpenStack Heat - Python 3.x Heat is a service to orchestrate multiple composite cloud applications using templates through both an OpenStack-native ReST API and a CloudFormation-compatible Query API. . This is a client for the OpenStack Heat API. There's a Python API (the heatclient module) and a command-line script (heat). Each implements 100% of the OpenStack Heat API. . This package provides the Python 3.x module."	Apache-2.0			
erlang-mode	erlang	"Erlang major editing mode for Emacs This package includes the mode for editing Erlang programs in GNU Emacs. It is provided with the default Erlang/OTP distribution. It supports sophisticated indentation syntax highlighting electric commands module name verification comments skeletons tags etc."	LGPL-2.1 Apache-2.0	aes	256	
erlang-mode	erlang	"Erlang major editing mode for Emacs This package includes the mode for editing Erlang programs in GNU Emacs. It is provided with the default Erlang/OTP distribution. It supports sophisticated indentation syntax highlighting electric commands module name verification comments skeletons tags etc."	LGPL-2.1 Apache-2.0	diffiehellman	unlimited	
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erlang-mode	erlang	"Erlang major editing mode for Emacs This package includes the mode for editing Erlang programs in GNU Emacs. It is provided with the default Erlang/OTP distribution. It supports sophisticated indentation syntax highlighting electric commands module name verification comments skeletons tags etc."	LGPL-2.1 Apache-2.0	sha	512	
erlang-mode	erlang	"Erlang major editing mode for Emacs This package includes the mode for editing Erlang programs in GNU Emacs. It is provided with the default Erlang/OTP distribution. It supports sophisticated indentation syntax highlighting electric commands module name verification comments skeletons tags etc."	LGPL-2.1 Apache-2.0	hmac	160	
erlang-mode	erlang	"Erlang major editing mode for Emacs This package includes the mode for editing Erlang programs in GNU Emacs. It is provided with the default Erlang/OTP distribution. It supports sophisticated indentation syntax highlighting electric commands module name verification comments skeletons tags etc."	LGPL-2.1 Apache-2.0	md5	128	
murano-cfapi	murano	"cloud-ready application catalog - Cloud Foundry broker Murano Project introduces an application catalog which allows application developers and cloud administrators to publish various cloud-ready applications in a browsable categorised catalog which may be used by the cloud users (including the inexperienced ones) to pick-up the needed applications and services and composes the reliable environments out of them in a "push-the-button" manner. . This package contains the Cloud Foundry Service Broker API. For more info see <a href="https://docs.cloudfoundry.org/services/api.html">https://docs.cloudfoundry.org/services/api.html</a> ."	Apache-2.0			

Package name	Source	Package Description	Package License	Encryption types	Encryption Max Key Length	Comment
mysql-client-5.6	mysql-wsrep-5.6	"MySQL database client binaries MySQL is a fast stable and true multi-user multi-threaded SQL database server. SQL (Structured Query Language) is the most popular database query language in the world. The main goals of MySQL are speed robustness and ease of use. . This package includes the client binaries and the additional tools innotop and mysqlreport."	GPL-2.0+ GPL-2.0 LGPL-2.0 BSD-3-Clause BSD MIT Public Domain ISC			
python-wsme	python-wsme	"Web Services Made Easy: implement multi-protocol webservices - Python 2.x Web Service Made Easy (WSME) simplify the writing of REST web services by providing simple yet powerful typing which removes the need to directly manipulate the request and the response objects. . WSME can work standalone or on top of your favorite Python web (micro) framework so you can use both your preferred way of routing your REST requests and most of the features of WSME that rely on the typing system like: . * Alternate protocols including ones supporting batch-calls * Easy documentation through a Sphinx extension . WSME is originally a rewrite of TGWebServices with focus on extensibility framework-independance and better type handling. . This package provides the Python 2.x module."	Unknown			
python3-django-formtools	python-django-formtools	"set of high-level abstractions for Django forms - Python 3.x Django's formtools is a set of high-level abstractions for Django forms. Currently for form previews and multi-step forms. . This code used to live in Django proper: in django.contrib.formtools. But it was separated into a standalone package in Django 1.8 to keep the framework's core clean. . This package contains the Python 3.x module."	BSD-3-Clause			
python-oslo.reports	python-oslo.reports	"reports serialized in various data types - Python 2.7 This package/module provides mechanisms for defining reports which may then be serialized into various data types. Each report is composed of one or more report sections which contain generators which generate data models which are then serialized by views. . This package contains the Python 2.7 module."	Apache-2.0			
python3-pytest-cov	python-pytest-cov	"py.test plugin to produce coverage reports for Python3 This py.test plugin produces coverage reports. It supports both centralised and distributed testing across multiple hosts. It can run parallel tests on different platforms architectures and Python versions. It supports coverage of subprocesses and can produce reports in text HTML XML and annotated source code."	MIT			
python-neutron-vpnaas	neutron-vpnaas	"VPN-as-a-Service driver for OpenStack Neutron Neutron is a virtual network service for Openstack and a part of Netstack. Just like OpenStack Nova provides an API to dynamically request and configure virtual servers Neutron provides an API to dynamically request and configure virtual networks. These networks connect "interfaces" from other OpenStack services (e.g. virtual NICs from Nova VMs). The Neutron API supports extensions to provide advanced network capabilities (e.g. QoS ACLs network monitoring etc.) . This package provides the VPN-as-a-Service driver for Neutron."	Apache-2.0			

Package name	Source	Package Description	Package License	Encryption types	Encryption Max Key Length	Comment
python3-pretend	python-pretend	"Python library for stubbing (Python 3) Pretend is a library to make stubbing with Python easier. . Stubbing is a technique for writing tests. You may hear the term mixed up with mocks fakes or doubles. Basically a stub is an object that returns pre-canned responses rather than doing any computation. . This package contains the Python 3 version of pretend."	BSD-3-Clause			
neutron-lbaas-agent	neutron-lbaas	"Neutron is a virtual network service for Openstack - LBaaS agent Neutron is a virtual network service for Openstack and a part of Netstack. Just like OpenStack Nova provides an API to dynamically request and configure virtual servers Neutron provides an API to dynamically request and configure virtual networks. These networks connect "interfaces" from other OpenStack services (e.g. virtual NICs from Nova VMs). The Neutron API supports extensions to provide advanced network capabilities (e.g. QoS ACLs network monitoring etc.) . This package provides the Load Balancing as-a Service (LBaaS) agent."	Apache-2.0			
python3-oslo.middleware	python-oslo.middleware	"various WSGI middleware components for OpenStack - Python 3.x The oslo.middleware library contains various functions and methods used by the OpenStack projects that are using the WSGI pipeline. . This package contains the Python 3.x module."	Apache-2.0			
haproxy-dbg	haproxy	"fast and reliable load balancing reverse proxy (debug symbols) HAProxy is a TCP/HTTP reverse proxy which is particularly suited for high availability environments. It features connection persistence through HTTP cookies load balancing header addition modification deletion both ways. It has request blocking capabilities and provides interface to display server status. . This package contains the debugging symbols for haproxy."	GPL-2.0+ GPL-2.0 LGPL-2.1 Apache-2.0			
erlang-observer	erlang	"Erlang/OTP application for investigating distributed systems The OBSERVER application contains tools for tracing and investigation of distributed systems. They include etop - a tool for presenting information about Erlang processes and crashdump_viewer - a HTML based tool for browsing Erlang crashdumps."	LGPL-2.1 Apache-2.0	aes	256	
erlang-observer	erlang	"Erlang/OTP application for investigating distributed systems The OBSERVER application contains tools for tracing and investigation of distributed systems. They include etop - a tool for presenting information about Erlang processes and crashdump_viewer - a HTML based tool for browsing Erlang crashdumps."	LGPL-2.1 Apache-2.0	diffiehellman	unlimited	
erlang-observer	erlang	"Erlang/OTP application for investigating distributed systems The OBSERVER application contains tools for tracing and investigation of distributed systems. They include etop - a tool for presenting information about Erlang processes and crashdump_viewer - a HTML based tool for browsing Erlang crashdumps."	LGPL-2.1 Apache-2.0	blowfish	448	
erlang-observer	erlang	"Erlang/OTP application for investigating distributed systems The OBSERVER application contains tools for tracing and investigation of distributed systems. They include etop - a tool for presenting information about Erlang processes and crashdump_viewer - a HTML based tool for browsing Erlang crashdumps."	LGPL-2.1 Apache-2.0	sha	512	

Package name	Source	Package Description	Package License	Encryption types	Encryption Max Key Length	Comment
erlang-observer	erlang	"Erlang/OTP application for investigating distributed systems The OBSERVER application contains tools for tracing and investigation of distributed systems. They include etop - a tool for presenting information about Erlang processes and crashdump_viewer - a HTML based tool for browsing Erlang crashdumps."	LGPL-2.1 Apache-2.0	hmac	160	
erlang-observer	erlang	"Erlang/OTP application for investigating distributed systems The OBSERVER application contains tools for tracing and investigation of distributed systems. They include etop - a tool for presenting information about Erlang processes and crashdump_viewer - a HTML based tool for browsing Erlang crashdumps."	LGPL-2.1 Apache-2.0	md5	128	
python3-pil.imagetk	pillow	"Python Imaging Library - ImageTk Module (Python3) Tk dependent python-pil module."	Unknown			
neutron-plugin-linuxbridge-agent	neutron	"transitional dummy package for switching to Neutron Linuxbridge agent This is a transitional dummy package due to the move of the Linuxbridge agent from core plugin to ML2 MechanismDriver. Once you have upgraded this package can safely be removed. This package provides a transition path from neutron-plugin-linuxbridge-agent to neutron-linuxbridge-agent."	Apache-2.0			
python-rtslib-fb	python-rtslib-fb	"object API for managing the Linux LIO kernel target - Python 2.x The rtplib-fb package is an object-based Python library for configuring the LIO generic SCSI target present in 3.x Linux kernel versions. . The rtplib-fb package is a fork of the "rtplib" code written by RisingTide Systems. The "-fb" differentiates between the original and this version. Ensure to use either all "fb" versions of the targetcli components -- targetcli rtplib and configshell or stick with all non-fb versions since they are no longer strictly compatible. . This package contains the Python 2.x module."	Apache-2.0			
python-zake	python-zake	"provides a set of testing utilities for the kazoo library - Python 2.x Zake is a Python package that works to provide a nice set of testing utilities for the kazoo library. . It includes the following functionality: * Storage access (for viewing what was saved/created). * Kazoo *mostly* compatible client API. * Sync/transaction/create/get/delete... commands. * Listener support. * And more... . It simplifies testing by providing a client that has a similar API as the kazoo client so that your tests (or applications/libraries that use kazoo) do not require a real zookeeper server to be tested with (since this is not available in all testing environments). . This package contains the Python 2.x module."	Apache-2.0			
python-qpido-proton-doc	qpido-proton	"Documentation for the Python language bindings for Qpid Proton Qpid Proton is a high-performance lightweight messaging library. It can be used in the widest range of messaging applications including brokers client libraries routers bridges proxies and more. Proton makes it trivial to integrate with the AMQP 1.0 ecosystem from any platform environment or language. . This package provides documentation for the Python language bindings for Qpid Proton."	GPL-2.0+ GPL-2.0 BSD-3-Clause Apache-2.0			
python3-os-testr	python-os-testr	"Utility wrappers for testrepository for OpenStack projects - Python 3.x A number of small wrappers to support use of testrepository across OpenStack projects. . This package contains the Python 3.x module and binaries."	Apache-2.0			

Package name	Source	Package Description	Package License	Encryption types	Encryption Max Key Length	Comment
ceph-fs-common-dbg	ceph	"debugging symbols for ceph-fs-common Ceph is a distributed network file system designed to provide excellent performance reliability and scalability. This is a collection of common tools including the mount utility that allows one to mount the Ceph file system with the kernel client. . This package contains the debugging symbols for ceph-fs-common."	GPL-2.0+ GPL-2.0 GPL-3.0 LGPL-2.0 LGPL-2.1 BSD-2-Clause BSD-3-Clause Public Domain Apache-2.0	crush	unlimited	cephhash
ceph-fs-common-dbg	ceph	"debugging symbols for ceph-fs-common Ceph is a distributed network file system designed to provide excellent performance reliability and scalability. This is a collection of common tools including the mount utility that allows one to mount the Ceph file system with the kernel client. . This package contains the debugging symbols for ceph-fs-common."	GPL-2.0+ GPL-2.0 GPL-3.0 LGPL-2.0 LGPL-2.1 BSD-2-Clause BSD-3-Clause Public Domain Apache-2.0	sha	512	
ceph-fs-common-dbg	ceph	"debugging symbols for ceph-fs-common Ceph is a distributed network file system designed to provide excellent performance reliability and scalability. This is a collection of common tools including the mount utility that allows one to mount the Ceph file system with the kernel client. . This package contains the debugging symbols for ceph-fs-common."	GPL-2.0+ GPL-2.0 GPL-3.0 LGPL-2.0 LGPL-2.1 BSD-2-Clause BSD-3-Clause Public Domain Apache-2.0	aes	256	
ceph-fs-common-dbg	ceph	"debugging symbols for ceph-fs-common Ceph is a distributed network file system designed to provide excellent performance reliability and scalability. This is a collection of common tools including the mount utility that allows one to mount the Ceph file system with the kernel client. . This package contains the debugging symbols for ceph-fs-common."	GPL-2.0+ GPL-2.0 GPL-3.0 LGPL-2.0 LGPL-2.1 BSD-2-Clause BSD-3-Clause Public Domain Apache-2.0	abacus	0	
ceph-fs-common-dbg	ceph	"debugging symbols for ceph-fs-common Ceph is a distributed network file system designed to provide excellent performance reliability and scalability. This is a collection of common tools including the mount utility that allows one to mount the Ceph file system with the kernel client. . This package contains the debugging symbols for ceph-fs-common."	GPL-2.0+ GPL-2.0 GPL-3.0 LGPL-2.0 LGPL-2.1 BSD-2-Clause BSD-3-Clause Public Domain Apache-2.0	md5	128	
python-nose-doc	nose	"documentation for discovery and running for Python's unittest nose provides an alternate test discovery and running process for unittest one that is intended to mimic the behavior of py.test as much as is reasonably possible without resorting to too much magic . This package provides the documentation for nose."	GPL-2.0 Public Domain			
python3-os-win	python-os-win	"Windows / Hyper-V library for OpenStack projects - Python 3.x Os-win is a library that contains Windows / Hyper-V code commonly used in the OpenStack projects: nova cinder networking-hyperv. The library can be used in any other OpenStack projects where it is needed. . This package contains the Python 3.x module."	Apache-2.0			

Package name	Source	Package Description	Package License	Encryption types	Encryption Max Key Length	Comment
python3-pil	pillow	"Python Imaging Library (Python3) The Python Imaging Library (PIL) adds an image object to your Python interpreter. You can load images from a variety of file formats and apply a rich set of image operations to them. . Image Objects: o Bilevel greyscale palette true colour (RGB) true colour with transparency (RGBA). o colour separation (CMYK). o Copy cut paste operations. o Flip transpose resize rotate and arbitrary affine transforms. o Transparency operations. o Channel and point operations. o Colour transforms including matrix operations. o Image enhancement including convolution filters. . File Formats: o Full (Open/Load/Save): BMP EPS (with ghostscript) GIF IM JPEG MSP PDF PNG PPM TIFF XBM. o Read only (Open/Load): ARG CUR DCX FLI FPX GBR GD ICO IMT IPTC MCIDAS MPEG PhotoCD PCX PIXAR PSD TGA SGI SUN TGA WMF XPM. o Save only: PDF EPS (without ghostscript)."	Unknown			
keepalived	keepalived	"Failover and monitoring daemon for LVS clusters keepalived is used for monitoring real servers within a Linux Virtual Server (LVS) cluster. keepalived can be configured to remove real servers from the cluster pool if it stops responding as well as send a notification email to make the admin aware of the service failure. . In addition keepalived implements an independent Virtual Router Redundancy Protocol (VRRPv2; see rfc2338 for additional info) framework for director failover. . You need a kernel >= 2.4.28 or >= 2.6.11 for keepalived. See README.Debian for more information."	GPL-2.0 GPL-3.0			
python3-docutils	python-docutils	"text processing system for reStructuredText (implemented in Python 3) reStructuredText is an easy-to-read what-you-see-is-what-you-get plaintext markup syntax and parser system. It is useful for in-line program documentation (such as Python docstrings) for quickly creating simple web pages and for standalone documents. . The purpose of the Docutils project is to create a set of tools for processing reStructuredText documentation into useful formats such as HTML LaTeX ODT or Unix manpages. . This package includes Python 3 modules and command line utilities."	GPL-3.0 LGPL-2.1 BSD-2-Clause BSD-3-Clause Public Domain			
ceilometer-alarm-evaluator	ceilometer	"OpenStack efficient metering counters system - aodh-evaluator trans Ceilometer aims to deliver a Single Point Of Contact for billing systems providing all the counters they need to establish customer billing across all current and future OpenStack components. The delivery of counters must be traceable and auditable the counters must be easily extensible to support new projects and agents doing data collections should be independent of the overall system. . This package is a dummy transition package to aodh-evaluator and can be safely removed."	Apache-2.0			
python-os-net-config	python-os-net-config	"OpenStack network configuration - Python 2.x The core aim of this project is to allow fine grained (but extendable) configuration of the networking parameters for a network host. The project consists of: * A CLI (os-net-config) which provides configuration via a YAML or JSON file formats. By default os-net-config uses a YAML config file located at /etc/os-net-config/config.yaml. This can be customized via the --config-file CLI option. * A Python library which provides configuration via an object model. . This package contains the Python 2.x module."	Apache-2.0			

Package name	Source	Package Description	Package License	Encryption types	Encryption Max Key Length	Comment
python-designateclient	python-designateclient	"client library for the OpenStack Designate API Designate provides DNSaaS services for OpenStack. It provides a multi-tenant REST API for domain & record management. It is Integrated with Keystone for authentication and provides a framework in place to integrate with Nova and Neutron notifications (for auto-generated records). Designate supports PowerDNS and Bind9 out of the box. . This is a client for the OpenStack Designate API. There's a Python API (the "designateclient" module) and a command-line script ("designate"). . Installing this package gets you a shell command that you can use to interact with Designate's API."	Apache-2.0			
python3-pip	python-pip	"alternative Python package installer - Python 3 version of the package pip is a replacement for easy_install and is intended to be an improved Python package installer. It integrates with virtualenv doesn't do partial installs can save package state for replaying can install from non-egg sources and can install from version control repositories. . This is the Python 3 version of the package."	Unknown			
python-mako	mako	"fast and lightweight templating for the Python platform Mako is a template library written in Python. It provides a familiar non-XML syntax which compiles into Python modules for maximum performance. Mako's syntax and API borrows from the best ideas of many others including Django templates Cheetah Myghty and Genshi. Conceptually Mako is an embedded Python (i.e. Python Server Page) language which refines the familiar ideas of componentized layout and inheritance to produce one of the most straightforward and flexible models available while also maintaining close ties to Python calling and scoping semantics."	BSD-3-Clause			
python-oslo.middleware	python-oslo.middleware	"various WSGI middleware components for OpenStack - Python 2.x The oslo.middleware library contains various functions and methods used by the OpenStack projects that are using the WSGI pipeline. . This package contains the Python 2.x module."	Apache-2.0			
fonts-materialdesignicons-webfont	fonts-materialdesignicons-webfont	"font containing Material Design Icons Material Design Icons' growing icon collection allows designers and developers targeting various platforms to download icons in the format color and size they need for any project. This font contains icons form this collection. . This package also provides Css Scss and LESS files to use webfonts from this package."	Unknown			

Package name	Source	Package Description	Package License	Encryption types	Encryption Max Key Length	Comment
python-xstatic-angular	python-xstatic-angular	"Angular JS XStatic support - Python 2.x XStatic is a packaging standard to package external (often 3rd party) static files as a Python package so they are easily usable on all operating systems with any package management system or even without one. . Many Python projects need to use some specific data files like javascript css java applets images etc. Sometimes these files belong to YOUR project (then you may want to package them separately but you could also just put them into your main package). But in many other cases those files are maintained by someone else (like jQuery javascript library or even much bigger js libraries or applications) and you definitely do not really want to merge them into your project. So you want to have static file packages but you don?t want to get lots of stuff you do not want. Thus stuff required by XStatic file packages (especially the main toplevel XStatic package) tries to obey to be a MINIMAL no-fat thing. XStatic doesn't "sell" any web framework or other stuff you don't want. Maybe there will be optional XStatic extensions for all sorts of stuff but they won't be required if you just want the files. . By having static files in packages it is also easier to build virtual envs support linux/bsd/... distribution package maintainers and even windows installs using the same mechanism. . This package provides Angular JS support as a Python 2.x module."	Unknown			
python-pint-doc	python-pint	"define operate and manipulate physical quantities - doc Pint is Python module/package to define operate and manipulate physical quantities: the product of a numerical value and a unit of measurement. It allows arithmetic operations between them and conversions from and to different units. . It is distributed with a comprehensive list of physical units prefixes and constants. Due to its modular design you can extend (or even rewrite!) the complete list without changing the source code. . This package contains the documentation."	BSD-3-Clause			
zbase32	zbase32	"Human-oriented encoding for binary data zbase32 implements the z-base-32 encoding as specified in <a href="http://philzimmermann.com/docs/human-oriented-base-32-encoding.txt">http://philzimmermann.com/docs/human-oriented-base-32-encoding.txt</a> "	MIT			
python3-cryptography	python-cryptography	"Python library exposing cryptographic recipes and primitives (Python 3) The cryptography library is designed to be a "one-stop-shop" for all your cryptographic needs in Python. . As an alternative to the libraries that came before it cryptography tries to address some of the issues with those libraries: - Lack of PyPy and Python 3 support. - Lack of maintenance. - Use of poor implementations of algorithms (i.e. ones with known side-channel attacks). - Lack of high level "Cryptography for humans" APIs. - Absence of algorithms such as AES-GCM. - Poor introspectability and thus poor testability. - Extremely error prone APIs and bad defaults. . This package contains the Python 3 version of cryptography."	Apache-2.0			



Package name	Source	Package Description	Package License	Encryption types	Encryption Max Key Length	Comment
python-xstatic-jquery	python-xstatic-jquery	"jquery XStatic support - Python 2.x XStatic is a packaging standard to package external (often 3rd party) static files as a Python package so they are easily usable on all operating systems with any package management system or even without one. . Many Python projects need to use some specific data files like javascript css java applets images etc. Sometimes these files belong to YOUR project (then you may want to package them separately but you could also just put them into your main package). But in many other cases those files are maintained by someone else (like jQuery javascript library or even much bigger js libraries or applications) and you definitely do not really want to merge them into your project. So you want to have static file packages but you don't want to get lots of stuff you do not want. Thus stuff required by XStatic file packages (especially the main toplevel XStatic package) tries to obey to be a MINIMAL no-fat thing. XStatic doesn't "sell" any web framework or other stuff you don't want. Maybe there will be optional XStatic extensions for all sorts of stuff but they won't be required if you just want the files. . By having static files in packages it is also easier to build virtual envs support linux/bsd/... distribution package maintainers and even windows installs using the same mechanism. . This package provides jQuery support as a Python 2.x module."	unknown			
golang-golang-x-crypto-dev	golang-go.crypto	"Supplementary Go cryptography libraries This package contains cryptographic algorithms and protocols not packaged in the main Go distribution such as: . - blowfish - nacl - openpgp - otr - sha3 - ssh . and many others."	BSD-3-Clause	blowfish	448	
golang-golang-x-crypto-dev	golang-go.crypto	"Supplementary Go cryptography libraries This package contains cryptographic algorithms and protocols not packaged in the main Go distribution such as: . - blowfish - nacl - openpgp - otr - sha3 - ssh . and many others."	BSD-3-Clause	ripemd	160	
golang-golang-x-crypto-dev	golang-go.crypto	"Supplementary Go cryptography libraries This package contains cryptographic algorithms and protocols not packaged in the main Go distribution such as: . - blowfish - nacl - openpgp - otr - sha3 - ssh . and many others."	BSD-3-Clause	keccak	0	
golang-golang-x-crypto-dev	golang-go.crypto	"Supplementary Go cryptography libraries This package contains cryptographic algorithms and protocols not packaged in the main Go distribution such as: . - blowfish - nacl - openpgp - otr - sha3 - ssh . and many others."	BSD-3-Clause	rc2	1024	
golang-golang-x-crypto-dev	golang-go.crypto	"Supplementary Go cryptography libraries This package contains cryptographic algorithms and protocols not packaged in the main Go distribution such as: . - blowfish - nacl - openpgp - otr - sha3 - ssh . and many others."	BSD-3-Clause	cast	128	
golang-golang-x-crypto-dev	golang-go.crypto	"Supplementary Go cryptography libraries This package contains cryptographic algorithms and protocols not packaged in the main Go distribution such as: . - blowfish - nacl - openpgp - otr - sha3 - ssh . and many others."	BSD-3-Clause	twofish	256	

Package name	Source	Package Description	Package License	Encryption types	Encryption Max Key Length	Comment
python3-xstatic-qunit	python-xstatic-qunit	"QUnit XStatic support - Python 3.x XStatic is a packaging standard to package external (often 3rd party) static files as a Python package so they are easily usable on all operating systems with any package management system or even without one. . Many Python projects need to use some specific data files like javascript css java applets images etc. Sometimes these files belong to YOUR project (then you may want to package them separately but you could also just put them into your main package). But in many other cases those files are maintained by someone else (like jQuery javascript library or even much bigger js libraries or applications) and you definitely do not really want to merge them into your project. So you want to have static file packages but you don't want to get lots of stuff you do not want. Thus stuff required by XStatic file packages (especially the main toplevel XStatic package) tries to obey to be a MINIMAL no-fat thing. XStatic doesn't "sell" any web framework or other stuff you don't want. Maybe there will be optional XStatic extensions for all sorts of stuff but they won't be required if you just want the files. . By having static files in packages it is also easier to build virtual envs support linux/bsd/... distribution package maintainers and even windows installs using the same mechanism. . This package provides QUnit support as a Python 3.x module."	Unknown			
python-positional-doc	python-positional	"A decorator which enforces only some args may be passed positionally. Positional provides a decorator which enforces only some args may be passed positionally. The idea and some of the code was taken from the oauth2 client of the google-api client. . This package contains the documentation for the client."	Apache-2.0			
neutron-common	neutron	"OpenStack virtual network service - common files Neutron provides an API to dynamically request and configure virtual networks. These networks connect "interfaces" from other OpenStack services (such as vNICs from Nova VMs). The Neutron API supports extensions to provide advanced network capabilities including QoS ACLs and network monitoring. . This package provides the common files."	Apache-2.0			
sqlformat	sqlparse	"SQL formatting utility The sqlformat command-line tool can be used to reformat SQL file according to specified options or prepare a snippet in some programming language (only Python and PHP currently supported)."	GPL-2.0 BSD-2-Clause			
python-manilaclient	python-manilaclient	"OpenStack shared file system as a service - Python 2.7 client Manila is an OpenStack project to provide Shared Filesystems as a service. It provides coordinated access to shared or distributed file systems. While the primary consumption of file shares would be across OpenStack Compute instances the service is also intended to be accessible as an independent capability in line with the modular design established by other OpenStack services. Manila is extensible for multiple backends (to support vendor or file system specific nuances / capabilities) and accommodates any of a variety of shared or distributed file system types. . This package contains the Python client library and command line tool for Manila and for Python 2.7."	Apache-2.0			
ohai-doc	ohai	"Transitional package for ohai This is a transitional package to ease upgrades to the ohai package. It can safely be removed."	Apache-2.0			

Package name	Source	Package Description	Package License	Encryption types	Encryption Max Key Length	Comment
qemu-user	qemu	"QEMU user mode emulation binaries QEMU is a fast processor emulator: currently the package supports ARM CRIS i386 M68k (ColdFire) MicroBlaze MIPS PowerPC SH4 SPARC and x86-64 emulation. By using dynamic translation it achieves reasonable speed while being easy to port on new host CPUs. . This package provides the user mode emulation binaries. In this mode QEMU can launch Linux processes compiled for one CPU on another CPU. . If qemu-user-binfmt package is also installed it will register binary format handlers from this qemu-user package with the kernel so it will be possible to run foreign binaries directly. However this might not be suitable for using inside foreign chroots in which case it is possible to use qemu-user-static package instead of qemu-user-binmft -- qemu-user-static will register statically linked binfmt handlers instead."	GPL-2.0 MIT	crypt	65	
qemu-user	qemu	"QEMU user mode emulation binaries QEMU is a fast processor emulator: currently the package supports ARM CRIS i386 M68k (ColdFire) MicroBlaze MIPS PowerPC SH4 SPARC and x86-64 emulation. By using dynamic translation it achieves reasonable speed while being easy to port on new host CPUs. . This package provides the user mode emulation binaries. In this mode QEMU can launch Linux processes compiled for one CPU on another CPU. . If qemu-user-binfmt package is also installed it will register binary format handlers from this qemu-user package with the kernel so it will be possible to run foreign binaries directly. However this might not be suitable for using inside foreign chroots in which case it is possible to use qemu-user-static package instead of qemu-user-binmft -- qemu-user-static will register statically linked binfmt handlers instead."	GPL-2.0 MIT	aes	256	
qemu-user	qemu	"QEMU user mode emulation binaries QEMU is a fast processor emulator: currently the package supports ARM CRIS i386 M68k (ColdFire) MicroBlaze MIPS PowerPC SH4 SPARC and x86-64 emulation. By using dynamic translation it achieves reasonable speed while being easy to port on new host CPUs. . This package provides the user mode emulation binaries. In this mode QEMU can launch Linux processes compiled for one CPU on another CPU. . If qemu-user-binfmt package is also installed it will register binary format handlers from this qemu-user package with the kernel so it will be possible to run foreign binaries directly. However this might not be suitable for using inside foreign chroots in which case it is possible to use qemu-user-static package instead of qemu-user-binmft -- qemu-user-static will register statically linked binfmt handlers instead."	GPL-2.0 MIT	des	56	
qemu-user	qemu	"QEMU user mode emulation binaries QEMU is a fast processor emulator: currently the package supports ARM CRIS i386 M68k (ColdFire) MicroBlaze MIPS PowerPC SH4 SPARC and x86-64 emulation. By using dynamic translation it achieves reasonable speed while being easy to port on new host CPUs. . This package provides the user mode emulation binaries. In this mode QEMU can launch Linux processes compiled for one CPU on another CPU. . If qemu-user-binfmt package is also installed it will register binary format handlers from this qemu-user package with the kernel so it will be possible to run foreign binaries directly. However this might not be suitable for using inside foreign chroots in which case it is possible to use qemu-user-static package instead of qemu-user-binmft -- qemu-user-static will register statically linked binfmt handlers instead."	GPL-2.0 MIT	tripleDES	168	

Package name	Source	Package Description	Package License	Encryption types	Encryption Max Key Length	Comment
qemu-user	qemu	"QEMU user mode emulation binaries QEMU is a fast processor emulator: currently the package supports ARM CRIS i386 M68k (ColdFire) MicroBlaze MIPS PowerPC SH4 SPARC and x86-64 emulation. By using dynamic translation it achieves reasonable speed while being easy to port on new host CPUs. . This package provides the user mode emulation binaries. In this mode QEMU can launch Linux processes compiled for one CPU on another CPU. . If qemu-user-binfmt package is also installed it will register binary format handlers from this qemu-user package with the kernel so it will be possible to run foreign binaries directly. However this might not be suitable for using inside foreign chroots in which case it is possible to use qemu-user-static package instead of qemu-user-binmft -- qemu-user-static will register statically linked binfmt handlers instead."	GPL-2.0 MIT	sha	512	
python-urllib3	python-urllib3	"HTTP library with thread-safe connection pooling for Python urllib3 supports features left out of urllib and urllib2 libraries. . - Re-use the same socket connection for multiple requests (HTTPConnectionPool and HTTPSConnectionPool) (with optional client-side certificate verification). - File posting (encode_multipart_formdata). - Built-in redirection and retries (optional). - Supports gzip and deflate decoding. - Thread-safe and sanity-safe. - Small and easy to understand codebase perfect for extending and building upon."	Unknown			
erlang-parsetools	erlang	"Erlang/OTP parsing tools The Parsetools application contains utilities for parsing. Currently it includes yecc module. Yecc is an LALR-1 parser generator for Erlang similar to yacc. Yecc takes a BNF grammar definition as input and produces Erlang code for a parser as output."	LGPL-2.1 Apache-2.0	aes	256	
erlang-parsetools	erlang	"Erlang/OTP parsing tools The Parsetools application contains utilities for parsing. Currently it includes yecc module. Yecc is an LALR-1 parser generator for Erlang similar to yacc. Yecc takes a BNF grammar definition as input and produces Erlang code for a parser as output."	LGPL-2.1 Apache-2.0	diffiehellman	unlimited	
erlang-parsetools	erlang	"Erlang/OTP parsing tools The Parsetools application contains utilities for parsing. Currently it includes yecc module. Yecc is an LALR-1 parser generator for Erlang similar to yacc. Yecc takes a BNF grammar definition as input and produces Erlang code for a parser as output."	LGPL-2.1 Apache-2.0	blowfish	448	
erlang-parsetools	erlang	"Erlang/OTP parsing tools The Parsetools application contains utilities for parsing. Currently it includes yecc module. Yecc is an LALR-1 parser generator for Erlang similar to yacc. Yecc takes a BNF grammar definition as input and produces Erlang code for a parser as output."	LGPL-2.1 Apache-2.0	sha	512	
erlang-parsetools	erlang	"Erlang/OTP parsing tools The Parsetools application contains utilities for parsing. Currently it includes yecc module. Yecc is an LALR-1 parser generator for Erlang similar to yacc. Yecc takes a BNF grammar definition as input and produces Erlang code for a parser as output."	LGPL-2.1 Apache-2.0	hmac	160	
erlang-parsetools	erlang	"Erlang/OTP parsing tools The Parsetools application contains utilities for parsing. Currently it includes yecc module. Yecc is an LALR-1 parser generator for Erlang similar to yacc. Yecc takes a BNF grammar definition as input and produces Erlang code for a parser as output."	LGPL-2.1 Apache-2.0	md5	128	

Package name	Source	Package Description	Package License	Encryption types	Encryption Max Key Length	Comment
python3-xstatic	python-xstatic	"XStatic base package with minimal support code - Python 3.x XStatic is a packaging standard to package external (often 3rd party) static files as a Python package so they are easily usable on all operating systems with any package management system or even without one. . Many Python projects need to use some specific data files like javascript css java applets images etc. Sometimes these files belong to YOUR project (then you may want to package them separately but you could also just put them into your main package). But in many other cases those files are maintained by someone else (like jQuery javascript library or even much bigger js libraries or applications) and you definitely do not really want to merge them into your project. So you want to have static file packages but you don't want to get lots of stuff you do not want. Thus stuff required by XStatic file packages (especially the main toplevel XStatic package) tries to obey to be a MINIMAL no-fat thing. XStatic doesn't "sell" any web framework or other stuff you don't want. Maybe there will be optional XStatic extensions for all sorts of stuff but they won't be required if you just want the files. . By having static files in packages it is also easier to build virtual envs support linux/bsd/... distribution package maintainers and even windows installs using the same mechanism. . This package contains the Python 3.x module."	Unknown			
python-mistral	mistral	"OpenStack Workflow Service - Python libraries Mistral is a workflow service. Most business processes consist of multiple distinct interconnected steps that need to be executed in a particular order in a distributed environment. One can describe such process as a set of tasks and task relations and upload such description to Mistral so that it takes care of state management correct execution order parallelism synchronization and high availability. Mistral also provides flexible task scheduling so that it can run a process according to a specified schedule (i.e. every Sunday at 4.00pm) instead of running it immediately. Such set of tasks and relations between them is called a workflow. . This package contains the Python libraries."	Apache-2.0			
python-pkginfo-doc	python-pkginfo	"Python module to query metadata from packages documentation This package provides an API for querying the distutils metadata written in the PKG-INFO file inside a source distribution (an sdist) or into the EGG-INFO directory of an installed distribution."	MIT			
python-muranoclient	python-muranoclient	"cloud-ready application catalog - Python 2.x client module Murano Project introduces an application catalog which allows application developers and cloud administrators to publish various cloud-ready applications in a browsable categorised catalog which may be used by the cloud users (including the inexperienced ones) to pick-up the needed applications and services and composes the reliable environments out of them in a "push-the-button" manner. . This is a client for Murano. There's a Python API (the "muranoclient" module) and a command-line script ("murano")."	Apache-2.0			
python3-oslo.log	python-oslo.log	"OpenStack logging configuration library - Python 3.x OpenStack logging configuration library provides standardized configuration for all openstack projects. It also provides custom formatters handlers and support for context specific logging (like resource id's etc). . This package contains the Python 3.x module."	Apache-2.0			

Package name	Source	Package Description	Package License	Encryption types	Encryption Max Key Length	Comment
libpe-rules2	pacemaker	"cluster resource manager Policy Engine rules library At its core Pacemaker is a distributed finite state machine capable of co-ordinating the startup and recovery of inter-related services across a set of machines. . Pacemaker understands many different resource types (OCF SYSV systemd) and can accurately model the relationships between them (colocation ordering). . It can even use technology such as Docker to automatically isolate the resources managed by the cluster. . This package contains the Policy Engine rules library."	GPL-2.0+ GPL-2.0 LGPL-2.1	md5	128	
python-xstatic-jquery-ui	python-xstatic-jquery-ui	"jQuery UI XStatic support - Python 2.x XStatic is a packaging standard to package external (often 3rd party) static files as a Python package so they are easily usable on all operating systems with any package management system or even without one. . Many Python projects need to use some specific data files like javascript css java applets images etc. Sometimes these files belong to YOUR project (then you may want to package them separately but you could also just put them into your main package). But in many other cases those files are maintained by someone else (like jQuery javascript library or even much bigger js libraries or applications) and you definitely do not really want to merge them into your project. So you want to have static file packages but you don?t want to get lots of stuff you do not want. Thus stuff required by XStatic file packages (especially the main toplevel XStatic package) tries to obey to be a MINIMAL no-fat thing. XStatic doesn't "sell" any web framework or other stuff you don't want. Maybe there will be optional XStatic extensions for all sorts of stuff but they won't be required if you just want the files. . By having static files in packages it is also easier to build virtual envs support linux/bsd/... distribution package maintainers and even windows installs using the same mechanism. . This package provides JQuery UI support as a Python 2.x module."	Unknown			
ruby-cstruct	ruby-cstruct	"simulation of the C language's struct CStruct is a simulation of the C language's struct.Its main purpose is to manipulate binary-data conveniently in Ruby. It can be used in: * Binary file IO like C. * The parameter of the OS's API.(e.g. Win32) * Other..."	Unknown			
python-cffi	python-cffi	"Foreign Function Interface for Python calling C code Convenient and reliable way of calling C code from Python. . The aim of this project is to provide a convenient and reliable way of calling C code from Python. It keeps Python logic in Python and minimises the C required. It is able to work at either the C API or ABI level unlike most other approaches that only support the ABI level. . This package contains the necessary build and runtime support for cffi modules."	Unknown			

Package name	Source	Package Description	Package License	Encryption types	Encryption Max Key Length	Comment
python-mistralclient	python-mistralclient	"OpenStack Workflow as a Service client - Python 2.7 Mistral is a task management service. It is also known as Workflow as a Service. Most business processes consist of multiple distinct interconnected steps that need to be executed in a particular order in a distributed environment. One can describe such process as a set of tasks and task relations and upload such description to Mistral so that it takes care of state management correct execution order task distribution and high availability. Mistral also provides flexible task scheduling so that users can run a process according to a specified schedule (i.e. every Sunday at 4.00pm) instead of running it immediately. Such set of tasks and dependencies between them is called a workflow. Independent routes in a workflow (which in fact is a graph) are called flows and Mistral can execute them in parallel. . This package provides a cli and a Python 2.7 client module."	Apache-2.0			
python-hacking	python-hacking	"Flake8 OpenStack Hacking Guidelines Enforcement plugins - Python 2.x Hacking is a set of flake8 plugins that test and enforce the OpenStack Style Commandments. It checks that your code matches the coding style which is mandatory for contributing to OpenStack. . This package provides the Python 2.x module."	Apache-2.0			
python-compressor	python-django-compressor	"Compresses linked inline JS or CSS - Python 2.7 transition package Django Compressor combines and compresses linked and inline Javascript or CSS in a Django templates into cacheable static files by using the compress template tag. . This is a transitional package to upgrade to python-django-compressor and it is safe to remove."	BSD-2-Clause MIT			
fuel-umm	fuel-library9.0	"Unified maintenance mode Packet provide possibility to put operation system in the state when it has only critical set of working services which are needed for basic network and disk operations. Also node in MM state is reachable with ssh from network."	unknown			
python-oslo.versionedobjects-doc	python-oslo.versionedobjects	"deals with DB schema versions and code expectations - doc oslo.versionedobjects library deals with DB schema being at different versions than the code expects allowing services to be operated safely during upgrades. It enables DB independent schema by providing an abstraction layer which allows one to support SQL and NoSQL Databases. oslo.versionedobjects is also used in RPC APIs to ensure upgrades happen without spreading version dependent code across different services and projects. . This package contains the documentation."	Apache-2.0			
python-bson-ext	pymongo	"C-coded extension to the python-bson package BSON Python module contains all of the Binary JSON encoding and decoding logic for MongoDB. This package contains an extension written in C for higher performance."	MIT Apache-2.0			
ryu-bin	ryu	"software defined networking framework (ryu binary) Ryu is a component-based software defined networking framework. Ryu provides software components with well defined API that make it easy for developers to create new network management and control applications. Ryu supports various protocols for managing network devices such as OpenFlow Netconf OF-config etc. About OpenFlow Ryu supports fully 1.0 1.2 1.3 1.4 and Nicira Extensions. . This package provides the Ryu manager."	MIT Apache-2.0			

Package name	Source	Package Description	Package License	Encryption types	Encryption Max Key Length	Comment
libjs-magic-search	libjs-magic-search	"AngularJS widget that provides a UI for faceted and text search MagicSearch is an AngularJS directive that provides a UI for both faceted filtering and as-you-type filtering. It is intended for filtering tables such as an AngularJS smart-table but it can be used in any situation where you can provide it with facets/options and consume its events."	Apache-2.0			
python3-pint	python-pint	"define operate and manipulate physical quantities - Python 3.x Pint is Python module/package to define operate and manipulate physical quantities: the product of a numerical value and a unit of measurement. It allows arithmetic operations between them and conversions from and to different units. . It is distributed with a comprehensive list of physical units prefixes and constants. Due to its modular design you can extend (or even rewrite!) the complete list without changing the source code. . This package contains the Python 3.x module."	BSD-3-Clause			
python3-oslo.concurrency	python-oslo.concurrency	"oslo.concurrency library - Python 3.x The oslo.concurrency library provides solutions for managing concurrency and locks within OpenStack projects. . This package contains the Python 3.x module."	Apache-2.0			
python-proliantutils-doc	python-proliantutils	"client lib interfacing various devices in HP Proliant Servers - doc Proliant Management Tools provides Python libraries for interfacing and managing various devices(like iLO) present in HP Proliant Servers. Currently this module offers a library to interface to iLO4 using RIBCL. . This package contains the documentation."	Apache-2.0			
qemu-utils	qemu	"QEMU utilities QEMU is a fast processor emulator: currently the package supports ARM CRIS i386 M68k (ColdFire) MicroBlaze MIPS PowerPC SH4 SPARC and x86-64 emulation. By using dynamic translation it achieves reasonable speed while being easy to port on new host CPUs. . This package provides QEMU related utilities: * qemu-img: QEMU disk image utility * qemu-io: QEMU disk exerciser * qemu-nbd: QEMU disk network block device server"	GPL-2.0 MIT	crypt	65	
qemu-utils	qemu	"QEMU utilities QEMU is a fast processor emulator: currently the package supports ARM CRIS i386 M68k (ColdFire) MicroBlaze MIPS PowerPC SH4 SPARC and x86-64 emulation. By using dynamic translation it achieves reasonable speed while being easy to port on new host CPUs. . This package provides QEMU related utilities: * qemu-img: QEMU disk image utility * qemu-io: QEMU disk exerciser * qemu-nbd: QEMU disk network block device server"	GPL-2.0 MIT	aes	256	
qemu-utils	qemu	"QEMU utilities QEMU is a fast processor emulator: currently the package supports ARM CRIS i386 M68k (ColdFire) MicroBlaze MIPS PowerPC SH4 SPARC and x86-64 emulation. By using dynamic translation it achieves reasonable speed while being easy to port on new host CPUs. . This package provides QEMU related utilities: * qemu-img: QEMU disk image utility * qemu-io: QEMU disk exerciser * qemu-nbd: QEMU disk network block device server"	GPL-2.0 MIT	des	56	



Package name	Source	Package Description	Package License	Encryption types	Encryption Max Key Length	Comment
qemu-utils	qemu	"QEMU utilities QEMU is a fast processor emulator: currently the package supports ARM CRIS i386 M68k (ColdFire) MicroBlaze MIPS PowerPC SH4 SPARC and x86-64 emulation. By using dynamic translation it achieves reasonable speed while being easy to port on new host CPUs. . This package provides QEMU related utilities: * qemu-img: QEMU disk image utility * qemu-io: QEMU disk exerciser * qemu-nbd: QEMU disk network block device server"	GPL-2.0 MIT	tripleDES	168	
qemu-utils	qemu	"QEMU utilities QEMU is a fast processor emulator: currently the package supports ARM CRIS i386 M68k (ColdFire) MicroBlaze MIPS PowerPC SH4 SPARC and x86-64 emulation. By using dynamic translation it achieves reasonable speed while being easy to port on new host CPUs. . This package provides QEMU related utilities: * qemu-img: QEMU disk image utility * qemu-io: QEMU disk exerciser * qemu-nbd: QEMU disk network block device server"	GPL-2.0 MIT	sha	512	
qemu-system-ppc	qemu	"QEMU full system emulation binaries (ppc) QEMU is a fast processor emulator: currently the package supports PowerPC emulation. By using dynamic translation it achieves reasonable speed while being easy to port on new host CPUs. . This package provides the full system emulation binaries to emulate the following PowerPC hardware: ppc ppcemb ppc64. . In system emulation mode QEMU emulates a full system including a processor and various peripherals. It enables easier testing and debugging of system code. It can also be used to provide virtual hosting of several virtual machines on a single server."	GPL-2.0 MIT	crypt	65	
qemu-system-ppc	qemu	"QEMU full system emulation binaries (ppc) QEMU is a fast processor emulator: currently the package supports PowerPC emulation. By using dynamic translation it achieves reasonable speed while being easy to port on new host CPUs. . This package provides the full system emulation binaries to emulate the following PowerPC hardware: ppc ppcemb ppc64. . In system emulation mode QEMU emulates a full system including a processor and various peripherals. It enables easier testing and debugging of system code. It can also be used to provide virtual hosting of several virtual machines on a single server."	GPL-2.0 MIT	aes	256	
qemu-system-ppc	qemu	"QEMU full system emulation binaries (ppc) QEMU is a fast processor emulator: currently the package supports PowerPC emulation. By using dynamic translation it achieves reasonable speed while being easy to port on new host CPUs. . This package provides the full system emulation binaries to emulate the following PowerPC hardware: ppc ppcemb ppc64. . In system emulation mode QEMU emulates a full system including a processor and various peripherals. It enables easier testing and debugging of system code. It can also be used to provide virtual hosting of several virtual machines on a single server."	GPL-2.0 MIT	des	56	

Package name	Source	Package Description	Package License	Encryption types	Encryption Max Key Length	Comment
qemu-system-ppc	qemu	"QEMU full system emulation binaries (ppc) QEMU is a fast processor emulator: currently the package supports PowerPC emulation. By using dynamic translation it achieves reasonable speed while being easy to port on new host CPUs. . This package provides the full system emulation binaries to emulate the following PowerPC hardware: ppc ppcemb ppc64. . In system emulation mode QEMU emulates a full system including a processor and various peripherals. It enables easier testing and debugging of system code. It can also be used to provide virtual hosting of several virtual machines on a single server."	GPL-2.0 MIT	tripledes	168	
qemu-system-ppc	qemu	"QEMU full system emulation binaries (ppc) QEMU is a fast processor emulator: currently the package supports PowerPC emulation. By using dynamic translation it achieves reasonable speed while being easy to port on new host CPUs. . This package provides the full system emulation binaries to emulate the following PowerPC hardware: ppc ppcemb ppc64. . In system emulation mode QEMU emulates a full system including a processor and various peripherals. It enables easier testing and debugging of system code. It can also be used to provide virtual hosting of several virtual machines on a single server."	GPL-2.0 MIT	sha	512	
bandit	bandit	"Security oriented static analyzer for Python code - Metapackage Bandit is a tool designed to find common security issues in Python code. To do this Bandit processes each file builds an Abstract Syntax Tree (AST) and runs appropriate plugins against the AST nodes. Once Bandit has finished scanning all the files it generates a report. . This package is a metapackage to install the Python 2.7 or 3.x of bandit."	Apache-2.0			
sahara-engine	sahara	"OpenStack data processing cluster as a service - Engine server The Sahara project provides a simple means to provision a data-intensive application cluster (Hadoop or Spark) on top of OpenStack. It's the ex Savanna project renamed due to potential trademark issues. . This package contains the engine daemon."	Apache-2.0			
unicorn-examples	unicorn	"Event-based HTTP/WSGI server Green Unicorn (gunicorn) is an HTTP/WSGI server designed to serve fast clients or sleepy applications. That is to say; behind a buffering front-end server such as nginx or lighttpd. . * Optional support for Eventlet Tornado and Gevent to provide asynchronous long-polling ("Comet") connections. * Process management: Unicorn reaps and restarts workers that die. * Easy integration with Django and Paster compatible applications (Pylons TurboGears 2 etc. * Load balancing via pre-fork and a shared socket * Graceful worker process restarts * Upgrading without losing connections * Decode chunked transfers on-the-fly allowing upload progress notifications or stream-based protocols over HTTP . These are the examples."	GPL-3.0 BSD MIT			

Package name	Source	Package Description	Package License	Encryption types	Encryption Max Key Length	Comment
python-lockfile	python-lockfile	"file locking library for Python ? Python 2 library The ?lockfile? library exports a ?LockFile? class which provides a simple API for locking files. . The appropriate implementation for ?LockFile? is chosen automatically based on the OS capabilities for an atomic filesystem operation. These implementations are also available for explicit use as ?LinkLockFile? and ?MkdirLockFile?. . Other back ends are possible with the same semantics. Examples included are: * ?SQLiteLockFile? using records in an SQLite database. * ?PIDLockFile? using the semantics of a Unix PID file. . Unlike other Python locking libraries (the Windows ?msvcrt.locking? function the Unix ?fcntl.flock? ?fcntl.lockf? and the deprecated ?posixfile? module) the API is identical across both Unix (including GNU/Linux and MacOS) and Windows platforms. . This package installs the Python 2 library."	Unknown			
erlang-crypto	erlang	"Erlang/OTP cryptographic modules The Crypto Application provides functions for computation of message digests encryption and decryption functions. It uses OpenSSL for actual calculations."	LGPL-2.1 Apache-2.0	aes	256	
erlang-crypto	erlang	"Erlang/OTP cryptographic modules The Crypto Application provides functions for computation of message digests encryption and decryption functions. It uses OpenSSL for actual calculations."	LGPL-2.1 Apache-2.0	diffiehellman	unlimited	
erlang-crypto	erlang	"Erlang/OTP cryptographic modules The Crypto Application provides functions for computation of message digests encryption and decryption functions. It uses OpenSSL for actual calculations."	LGPL-2.1 Apache-2.0	blowfish	448	
erlang-crypto	erlang	"Erlang/OTP cryptographic modules The Crypto Application provides functions for computation of message digests encryption and decryption functions. It uses OpenSSL for actual calculations."	LGPL-2.1 Apache-2.0	sha	512	
erlang-crypto	erlang	"Erlang/OTP cryptographic modules The Crypto Application provides functions for computation of message digests encryption and decryption functions. It uses OpenSSL for actual calculations."	LGPL-2.1 Apache-2.0	hmac	160	
erlang-crypto	erlang	"Erlang/OTP cryptographic modules The Crypto Application provides functions for computation of message digests encryption and decryption functions. It uses OpenSSL for actual calculations."	LGPL-2.1 Apache-2.0	md5	128	
libpengine-dev	pacemaker	"cluster resource manager Policy Engine library development At its core Pacemaker is a distributed finite state machine capable of co-ordinating the startup and recovery of inter-related services across a set of machines. . Pacemaker understands many different resource types (OCF SYSV systemd) and can accurately model the relationships between them (colocation ordering). . It can even use technology such as Docker to automatically isolate the resources managed by the cluster. . This package contains the headers and other necessary files to build applications or libraries that use the Policy Engine library."	GPL-2.0+ GPL-2.0 LGPL-2.1	md5	128	

Package name	Source	Package Description	Package License	Encryption types	Encryption Max Key Length	Comment
python3-zmq-dbg	pyzmq	"Python3 bindings for 0MQ library - debugging files Python bindings for 0MQ. 0MQ is a small fast and free software library that gives you message-passing concurrency for applications in most common languages. . The 0MQ lightweight messaging kernel is a library which extends the standard socket interfaces with features traditionally provided by specialised messaging middleware products. 0MQ sockets provide an abstraction of asynchronous message queues multiple messaging patterns message filtering (subscriptions) seamless access to multiple transport protocols and more. . This package contains the extension built for the Python3 debug interpreter."	LGPL-2.1 BSD-3-Clause Apache-2.0			
pcs	pcs	"Pacemaker command line interface PCS is pacemaker/corosync configuration system."	GPL-2.0+ GPL-2.0			
python-whoosh	python-whoosh	"pure-Python full-text indexing search and spell checking library (Python 2) Whoosh is a fast pure-Python indexing and search library. Programmers can use it to easily add search functionality to their applications and websites. As Whoosh is pure Python you don't have to compile or install a binary support library and/or make Python work with a JVM yet indexing and searching is still very fast. Whoosh is designed to be modular so every part can be extended or replaced to meet your needs exactly. . This package contains the python2 library"	BSD-2-Clause			
python3-netifaces-dbg	netifaces	"portable network interface information - Python 3.x debug extension netifaces provides a (hopefully portable-ish) way for Python programmers to get access to a list of the network interfaces on the local machine and to obtain the addresses of those network interfaces. . This package contains debug symbols of python3-netifaces."	unknown			
erlang-base	erlang	"Erlang/OTP virtual machine and base applications This package contains the Erlang/OTP runtime implementation which is configured and built without HiPE support (compiles to byte-code only) and minimal set of Erlang applications: compiler - compiles Erlang code to byte-code; erts - the Erlang runtime system application; kernel - code necessary to run the Erlang runtime system itself; ose - code for Enea OSE operating system; sasl - the system architecture support libraries application; stdlib - modules for manipulating lists strings files etc."	LGPL-2.1 Apache-2.0	aes	256	
erlang-base	erlang	"Erlang/OTP virtual machine and base applications This package contains the Erlang/OTP runtime implementation which is configured and built without HiPE support (compiles to byte-code only) and minimal set of Erlang applications: compiler - compiles Erlang code to byte-code; erts - the Erlang runtime system application; kernel - code necessary to run the Erlang runtime system itself; ose - code for Enea OSE operating system; sasl - the system architecture support libraries application; stdlib - modules for manipulating lists strings files etc."	LGPL-2.1 Apache-2.0	diffiehellman	unlimited	
erlang-base	erlang	"Erlang/OTP virtual machine and base applications This package contains the Erlang/OTP runtime implementation which is configured and built without HiPE support (compiles to byte-code only) and minimal set of Erlang applications: compiler - compiles Erlang code to byte-code; erts - the Erlang runtime system application; kernel - code necessary to run the Erlang runtime system itself; ose - code for Enea OSE operating system; sasl - the system architecture support libraries application; stdlib - modules for manipulating lists strings files etc."	LGPL-2.1 Apache-2.0	blowfish	448	

Package name	Source	Package Description	Package License	Encryption types	Encryption Max Key Length	Comment
erlang-base	erlang	"Erlang/OTP virtual machine and base applications This package contains the Erlang/OTP runtime implementation which is configured and built without HiPE support (compiles to byte-code only) and minimal set of Erlang applications: compiler - compiles Erlang code to byte-code; erts - the Erlang runtime system application; kernel - code necessary to run the Erlang runtime system itself; ose - code for Enea OSE operating system; sasl - the system architecture support libraries application; stdlib - modules for manipulating lists strings files etc."	LGPL-2.1 Apache-2.0	sha	512	
erlang-base	erlang	"Erlang/OTP virtual machine and base applications This package contains the Erlang/OTP runtime implementation which is configured and built without HiPE support (compiles to byte-code only) and minimal set of Erlang applications: compiler - compiles Erlang code to byte-code; erts - the Erlang runtime system application; kernel - code necessary to run the Erlang runtime system itself; ose - code for Enea OSE operating system; sasl - the system architecture support libraries application; stdlib - modules for manipulating lists strings files etc."	LGPL-2.1 Apache-2.0	hmac	160	
erlang-base	erlang	"Erlang/OTP virtual machine and base applications This package contains the Erlang/OTP runtime implementation which is configured and built without HiPE support (compiles to byte-code only) and minimal set of Erlang applications: compiler - compiles Erlang code to byte-code; erts - the Erlang runtime system application; kernel - code necessary to run the Erlang runtime system itself; ose - code for Enea OSE operating system; sasl - the system architecture support libraries application; stdlib - modules for manipulating lists strings files etc."	LGPL-2.1 Apache-2.0	md5	128	
python3-pytest	pytest	"Simple powerful testing in Python3 This testing tool has for objective to allow the developers to limit the boilerplate code around the tests promoting the use of built-in mechanisms such as the `assert` keyword. . This package provides the Python 3 module and the py3.test script."	BSD-3-Clause			
python-toml	python-toml	"library for Tom's Obvious Minimal Language - Python 2.7 This package provides a Python module which parses and emits TOML. TOML aims to be a minimal configuration file format that's easy to read due to obvious semantics. TOML is designed to map unambiguously to a hash table. TOML should be easy to parse into data structures in a wide variety of languages. . This package contains the Python 2.7 module."	Unknown			

Package name	Source	Package Description	Package License	Encryption types	Encryption Max Key Length	Comment
python-wrapt	python-wrapt	"decorators wrappers and monkey patching. - Python 2.x The aim of the wrapt module is to provide a transparent object proxy for Python which can be used as the basis for the construction of function wrappers and decorator functions. . The wrapt module focuses very much on correctness. It therefore goes way beyond existing mechanisms such as functools.wraps() to ensure that decorators preserve introspectability signatures type checking abilities etc. The decorators that can be constructed using this module will work in far more scenarios than typical decorators and provide more predictable and consistent behaviour. . To ensure that the overhead is as minimal as possible a C extension module is used for performance critical components. An automatic fallback to a pure Python implementation is also provided where a target system does not have a compiler to allow the C extension to be compiled. . This package contains the Python 2.x module."	BSD-2-Clause			
python-concurrent.futures	python-concurrent.futures	"backport of concurrent.futures package from Python 3.2 The concurrent.futures module provides a high-level interface for asynchronously executing callables. . This is a backport for concurrent.futures as of PEP-3148 and included in Python 3.2"	BSD-2-Clause			
libvirt-dev	libvirt	"development files for the libvirt library Libvirt is a C toolkit to interact with the virtualization capabilities of recent versions of Linux (and other OSes). The library aims at providing a long term stable C API for different virtualization mechanisms. It currently supports QEMU KVM XEN OpenVZ LXC and VirtualBox. . This package contains the header files and static libraries which are needed for developing the applications with libvirt."	GPL-2.0 GPL-3.0 LGPL-3.0 MIT	sha	512	
libvirt-dev	libvirt	"development files for the libvirt library Libvirt is a C toolkit to interact with the virtualization capabilities of recent versions of Linux (and other OSes). The library aims at providing a long term stable C API for different virtualization mechanisms. It currently supports QEMU KVM XEN OpenVZ LXC and VirtualBox. . This package contains the header files and static libraries which are needed for developing the applications with libvirt."	GPL-2.0 GPL-3.0 LGPL-3.0 MIT	md5	128	
mistral-dashboard	mistral-dashboard	"mistral-dashboard is an extension for OpenStack Dashboard. It provides UI for mistral. With mistral-dashboard user is able to easily manage and control work-flows long-running processes and cloud scheduling for OpenStack resources. . Horizon plugin for Mistral."	Apache-2.0			
vim-haproxy	haproxy	"syntax highlighting for HAProxy configuration files The vim-haproxy package provides filetype detection and syntax highlighting for HAProxy configuration files. . As per the Debian vim policy installed addons are not activated automatically but the "vim-addon-manager" tool can be used for this purpose."	GPL-2.0+ GPL-2.0 LGPL-2.1 Apache-2.0			
python-oslo-serialization-doc	python-oslo.serialization	"transitional dummy package for python-oslo-serialization-doc This transitional package is safe to remove and use python-oslo.serialization-doc instead."	Apache-2.0			
openjdk-8-jre-headless	openjdk-8	"OpenJDK Java runtime using Hotspot JIT (headless) Minimal Java runtime - needed for executing non GUI Java programs using Hotspot JIT. . The packages are built using the IcedTea build support and patches from the IcedTea project."	GPL-2.0 LGPL-2.0 LGPL-2.1 Public Domain Apache-2.0			

Package name	Source	Package Description	Package License	Encryption types	Encryption Max Key Length	Comment
python3-django-babel	python-django-babel	"Utilities for using Babel in Django - Python 3.x This package contains various utilities for integration of Babel into the Django web framework: * A message extraction plugin for Django templates. * A middleware class that adds the Babel Locale object to requests. * A set of template tags for date and number formatting. . Babel provides a message extraction framework similar to GNU xgettext but more extensible and geared towards Python applications. While Django does provide wrapper scripts for making the use of xgettext more convenient the extraction functionality is rather limited. For example you can't use template files with an extension other than .html and everything needs to be in your project package directory. . This package contains the Python 3.x module."	BSD-3-Clause			
erlang-snmp	erlang	"Erlang/OTP SNMP applications A multilingual Simple Network Management Protocol application features an Extensible Agent simple manager a MIB compiler and facilities for implementing SNMP MIBs etc. . The OTP_Mibs application provides an SNMP management information base for Erlang nodes."	LGPL-2.1 Apache-2.0	aes	256	
erlang-snmp	erlang	"Erlang/OTP SNMP applications A multilingual Simple Network Management Protocol application features an Extensible Agent simple manager a MIB compiler and facilities for implementing SNMP MIBs etc. . The OTP_Mibs application provides an SNMP management information base for Erlang nodes."	LGPL-2.1 Apache-2.0	diffiehellman	unlimited	
erlang-snmp	erlang	"Erlang/OTP SNMP applications A multilingual Simple Network Management Protocol application features an Extensible Agent simple manager a MIB compiler and facilities for implementing SNMP MIBs etc. . The OTP_Mibs application provides an SNMP management information base for Erlang nodes."	LGPL-2.1 Apache-2.0	blowfish	448	
erlang-snmp	erlang	"Erlang/OTP SNMP applications A multilingual Simple Network Management Protocol application features an Extensible Agent simple manager a MIB compiler and facilities for implementing SNMP MIBs etc. . The OTP_Mibs application provides an SNMP management information base for Erlang nodes."	LGPL-2.1 Apache-2.0	sha	512	
erlang-snmp	erlang	"Erlang/OTP SNMP applications A multilingual Simple Network Management Protocol application features an Extensible Agent simple manager a MIB compiler and facilities for implementing SNMP MIBs etc. . The OTP_Mibs application provides an SNMP management information base for Erlang nodes."	LGPL-2.1 Apache-2.0	hmac	160	
erlang-snmp	erlang	"Erlang/OTP SNMP applications A multilingual Simple Network Management Protocol application features an Extensible Agent simple manager a MIB compiler and facilities for implementing SNMP MIBs etc. . The OTP_Mibs application provides an SNMP management information base for Erlang nodes."	LGPL-2.1 Apache-2.0	md5	128	
python3-singledispatch	singledispatch	"single-dispatch generic functions for Python PEP 443 proposed to expose a mechanism in the functools standard library module in Python 3.4 that provides a simple form of generic programming known as single-dispatch generic functions. . This library is a backport of this functionality to Python 2.6 - 3.3. . This is the Python 3 version of the library."	Unknown			

Package name	Source	Package Description	Package License	Encryption types	Encryption Max Key Length	Comment
python-aioeventlet-doc	python-aioeventlet	"asyncio event loop scheduling callbacks in eventlet - doc aioeventlet implements the asyncio API (PEP 3156) on top of eventlet. It makes possible to write asyncio code in a project currently written for eventlet. . aioeventlet allows one to use greenthreads in asyncio coroutines and to use asyncio coroutines tasks and futures in greenthreads: see link_future() and wrap_greenthread() functions. . The main visible difference between aioeventlet and trollius is the behaviour of run_forever(): run_forever() blocks with trollius whereas it runs in a greenthread with aioeventlet. It means that aioeventlet event loop can run in an greenthread while the Python main thread runs other greenthreads in parallel. . This package contains the documentation."	Apache-2.0			
ironic-doc	ironic	"bare metal hypervisor API for OpenStack - doc Ironic provision bare metal machines instead of virtual machines. It is a fork of the Nova Baremetal driver. It is best thought of as a bare metal hypervisor API and a set of plugins which interact with the bare metal hypervisors. By default it will use PXE and IPMI in concert to provision and turn on/off machines but Ironic also supports vendor-specific plugins which may implement additional functionality. . This package provides the Ironic documentation."	Apache-2.0			
python-xstatic	python-xstatic	"XStatic base package with minimal support code - Python 2.x XStatic is a packaging standard to package external (often 3rd party) static files as a Python package so they are easily usable on all operating systems with any package management system or even without one. . Many Python projects need to use some specific data files like javascript css java applets images etc. Sometimes these files belong to YOUR project (then you may want to package them separately but you could also just put them into your main package). But in many other cases those files are maintained by someone else (like jQuery javascript library or even much bigger js libraries or applications) and you definitely do not really want to merge them into your project. So you want to have static file packages but you don't want to get lots of stuff you do not want. Thus stuff required by XStatic file packages (especially the main toplevel XStatic package) tries to obey to be a MINIMAL no-fat thing. XStatic doesn't "sell" any web framework or other stuff you don't want. Maybe there will be optional XStatic extensions for all sorts of stuff but they won't be required if you just want the files. . By having static files in packages it is also easier to build virtual envs support linux/bsd/... distribution package maintainers and even windows installs using the same mechanism. . This package contains the Python 2.x module."	Unknown			
python-castellan-doc	python-castellan	"generic key manager interface for OpenStack - doc The Castellan module provides a generic key manager interface so that OpenStack projects can use Barbican but also have the flexibility to choose an alternative Key Manager as needed. This is helpful during development for example where a simple implementation of the Key Manager Interface can be used instead of having to spin up a Barbican instance. . This package contains the documentation."	Apache-2.0			



Package name	Source	Package Description	Package License	Encryption types	Encryption Max Key Length	Comment
python-pyscss	python-pyscss	"SCSS compiler - Python 2.x pyScss compiles Scss (Sass) a superset of CSS that is more powerful elegant and easier to maintain than plain-vanilla CSS. The library acts as a CSS source code preprocessor which allows you to use variables nested rules mixins and have inheritance of rules all with a CSS-compatible syntax which the preprocessor then compiles to standard CSS. . This package provides the Python 2.x module."	MIT			
sahara-api	sahara	"OpenStack data processing cluster as a service - API server The Sahara project provides a simple means to provision a data-intensive application cluster (Hadoop or Spark) on top of OpenStack. It's the ex Savanna project renamed due to potential trademark issues. . This package contains the API server."	Apache-2.0			
dpdk-doc	dpdk	"Data Plane Development Kit (documentation) DPDK is a set of libraries for fast packet processing. Applications run in user-space and communicate directly with dedicated network interfaces. This package contains the complete set of documentation and guides."	LGPL-2.1 BSD	sha	512	
dpdk-doc	dpdk	"Data Plane Development Kit (documentation) DPDK is a set of libraries for fast packet processing. Applications run in user-space and communicate directly with dedicated network interfaces. This package contains the complete set of documentation and guides."	LGPL-2.1 BSD	ripemd	160	
dpdk-doc	dpdk	"Data Plane Development Kit (documentation) DPDK is a set of libraries for fast packet processing. Applications run in user-space and communicate directly with dedicated network interfaces. This package contains the complete set of documentation and guides."	LGPL-2.1 BSD	hmac	160	
dpdk-doc	dpdk	"Data Plane Development Kit (documentation) DPDK is a set of libraries for fast packet processing. Applications run in user-space and communicate directly with dedicated network interfaces. This package contains the complete set of documentation and guides."	LGPL-2.1 BSD	md5	128	
ceph-dbg	ceph	"debugging symbols for ceph Ceph is a distributed storage system designed to provide excellent performance reliability and scalability. . This package contains the debugging symbols for ceph."	GPL-2.0+ GPL-2.0 GPL-3.0 LGPL-2.0 LGPL-2.1 BSD-2-Clause BSD-3-Clause Public Domain Apache-2.0	crush	unlimited	cephhash
ceph-dbg	ceph	"debugging symbols for ceph Ceph is a distributed storage system designed to provide excellent performance reliability and scalability. . This package contains the debugging symbols for ceph."	GPL-2.0+ GPL-2.0 GPL-3.0 LGPL-2.0 LGPL-2.1 BSD-2-Clause BSD-3-Clause Public Domain Apache-2.0	sha	512	
ceph-dbg	ceph	"debugging symbols for ceph Ceph is a distributed storage system designed to provide excellent performance reliability and scalability. . This package contains the debugging symbols for ceph."	GPL-2.0+ GPL-2.0 GPL-3.0 LGPL-2.0 LGPL-2.1 BSD-2-Clause BSD-3-Clause Public Domain Apache-2.0	aes	256	
ceph-dbg	ceph	"debugging symbols for ceph Ceph is a distributed storage system designed to provide excellent performance reliability and scalability. . This package contains the debugging symbols for ceph."	GPL-2.0+ GPL-2.0 GPL-3.0 LGPL-2.0 LGPL-2.1 BSD-2-Clause BSD-3-Clause Public Domain Apache-2.0	abacus	0	
ceph-dbg	ceph	"debugging symbols for ceph Ceph is a distributed storage system designed to provide excellent performance reliability and scalability. . This package contains the debugging symbols for ceph."	GPL-2.0+ GPL-2.0 GPL-3.0 LGPL-2.0 LGPL-2.1 BSD-2-Clause BSD-3-Clause Public Domain Apache-2.0	md5	128	

Package name	Source	Package Description	Package License	Encryption types	Encryption Max Key Length	Comment
pypy-pkg-resources	python-setuptools	"Package Discovery and Resource Access using pkg_resources The pkg_resources module provides an API for Python libraries to access their resource files and for extensible applications and frameworks to automatically discover plugins. It also provides runtime support for using C extensions that are inside zipfile-format eggs support for merging packages that have separately-distributed modules or subpackages and APIs for managing Python's current "working set" of active packages."	Unknown			
python-oslo.config	python-oslo.config	"Common code for Openstack Projects (configuration API) - Python 2.x The OpenStack Oslo project provides Python libraries containing infrastructure code shared by OpenStack projects. . The OpenStack Oslo Configuration API supports parsing command line arguments and .ini style configuration files. . This package provides the Python 2.x module."	Apache-2.0			
python3-django-sekizai	django-sekizai	"template blocks for Django projects (Python3 version) Sekizai means ?blocks? in Japanese and that?s what this app provides. A fresh look at blocks. With django-sekizai you can define placeholders where your blocks get rendered and at different places in your templates append to those blocks. This is especially useful for css and javascript. Your subtemplates can now define css and javascript files to be included and the css will be nicely put at the top and the javascript to the bottom just like you should. Also sekizai will ignore any duplicate content in a single block. . This package contains the Python 3 version of the library."	BSD-3-Clause			
python3-gnocchiclient	python-gnocchiclient	"bindings to the OpenStack Gnocchi API - Python 3.x This is a client for OpenStack gnocchi API. There's a Python API (the gnocchiclient module) and a command-line script. Each implements the entire OpenStack Gnocchi API. . Gnocchi is a service for managing a set of resources and storing metrics about them in a scalable and resilient way. Its functionalities are exposed over an HTTP REST API. . This package contains the Python 3.x module."	Apache-2.0			
libcppunit-subunit-dev	subunit	"SubunitTestProgressListener for CPPUNIT - Development headers subunit is a protocol for test activity reporting. The SubunitTestProgressListener permits outputting Subunit from a CPPUNIT test suite. . The libcppunit-subunit-dev package contains the C++ development headers pkgconfig data file and a static version of the library."	BSD-3-Clause Apache-2.0			
python-futurist-doc	python-futurist	"useful additions to futures from the future - doc Code from the future delivered to you in the now. For example: * A futurist.GreenThreadPoolExecutor using eventlet green thread pools. It provides a standard executor API/interface and it also gathers execution statistics. * A futurist.ProcessPoolExecutor derivative that gathers execution statistics. * A futurist.SynchronousExecutor that doesn?t run concurrently. It has the same executor API/interface and it also gathers execution statistics. * A futurist.ThreadPoolExecutor derivative that gathers execution statistics. * A futurist.periodics.PeriodicWorker that can use the previously mentioned executors to run asynchronous work periodically in parallel or synchronously. * etc. . This package contains the documentation."	Apache-2.0			

Package name	Source	Package Description	Package License	Encryption types	Encryption Max Key Length	Comment
python3-pkg-resources	python-setuptools	"Package Discovery and Resource Access using pkg_resources The pkg_resources module provides an API for Python libraries to access their resource files and for extensible applications and frameworks to automatically discover plugins. It also provides runtime support for using C extensions that are inside zipfile-format eggs support for merging packages that have separately-distributed modules or subpackages and APIs for managing Python's current "working set" of active packages."	Unknown			
python-sqlparse-doc	sqlparse	"documentation for non-validating SQL parser in Python Sqlparse is a library which provides support for parsing splitting and customizable formatting of SQL statements in Python environment. . This package contains HTML documentation for provided module."	GPL-2.0 BSD-2-Clause			
python3-pysaml2	python-pysaml2	"SAML Version 2 to be used in a WSGI environment - Python 3.x This package provides a Python implementation of SAML Version 2 to be used in a WSGI environment. . From wikipedia: Security Assertion Markup Language 2.0 (SAML 2.0) is a version of the SAML standard for exchanging authentication and authorization data between security domains. SAML 2.0 is an XML-based protocol that uses security tokens containing assertions to pass information about a principal (usually an end user) between a SAML authority that is an identity provider and a SAML consumer that is a service provider. SAML 2.0 enables web-based authentication and authorization scenarios including cross-domain single sign-on (SSO) which helps reduce the administrative overhead of distributing multiple authentication tokens to the user. . This package contains the Python 3.x module."	BSD-2-Clause Apache-2.0			
puppetmaster	puppet	"configuration management system master service Puppet is a server automation tool. It is composed of a declarative language for expressing system configuration a client and server for distributing it and a library for realizing the configuration. . The primary design goal of Puppet is to have an expressive enough language backed by a powerful enough library that you can write your own server automation applications in just a few lines of code. Puppet's deep extensibility and open source license lets you add functionality as needed and share your innovations with others. . This package contains the "puppetmaster" service and init script which is suitable for small deployments."	GPL-2.0+ GPL-2.0 BSD-3-Clause MIT Public Domain Apache-2.0			

Package name	Source	Package Description	Package License	Encryption types	Encryption Max Key Length	Comment
swift	swift	"distributed virtual object store - common files OpenStack Object Storage (code-named Swift) creates redundant scalable object storage using clusters of standardized servers to store petabytes of accessible data. It is not a file system or real-time data storage system but rather a long-term storage system for a more permanent type of static data that can be retrieved leveraged and then updated if necessary. Primary examples of data that best fit this type of storage model are virtual machine images photo storage email storage and backup archiving. Having no central "brain" or master point of control provides greater scalability redundancy and permanence. . Objects are written to multiple hardware devices in the data center with the OpenStack software responsible for ensuring data replication and integrity across the cluster. Storage clusters can scale horizontally by adding new nodes. Should a node fail OpenStack works to replicate its content from other active nodes. Because OpenStack uses software logic to ensure data replication and distribution across different devices inexpensive commodity hard drives and servers can be used in lieu of more expensive equipment. . This package provides some core binaries and clients to control swift."	Apache-2.0			
oslo-messaging-zmq-receiver	python-oslo.messaging	"Oslo Messaging ZeroMQ receiver daemon The Oslo Messaging API supports RPC and notifications over a number of different messaging transports. . This package provides the ZeroMQ receiver which processes incoming messages on all servers participating in a ZeroMQ messaging cluster."	Apache-2.0			
python-aodhclient-doc	python-aodhclient	"Python bindings to the OpenStack Aodh API Aodh provides alarming for OpenStack. The alarming component of Aodh first delivered in the Havana version allows you to set alarms based on threshold evaluation for a collection of samples. An alarm can be set on a single meter or on a combination. For example you may want to trigger an alarm when the memory consumption reaches 70% on a given instance if the instance has been up for more than 10 min. . This package contains the documentation for the client."	Apache-2.0			
python3-oslo-context	python-oslo.context	"transitional dummy package for python3-oslo-context This transitional package is safe to remove and use python3-oslo.context instead."	Apache-2.0			
python-castellan	python-castellan	"generic key manager interface for OpenStack - Python 2.x The Castellan module provides a generic key manager interface so that OpenStack projects can use Barbican but also have the flexibility to choose an alternative Key Manager as needed. This is helpful during development for example where a simple implementation of the Key Manager Interface can be used instead of having to spin up a Barbican instance. . This package contains the Python 2.x module."	Apache-2.0			
radosgw	ceph	"REST gateway for RADOS distributed object store RADOS is a distributed object store used by the Ceph distributed storage system. This package provides a REST gateway to the object store that aims to implement a superset of Amazon's S3 service. . This package contains the proxy daemon and related tools only."	GPL-2.0+ GPL-2.0 GPL-3.0 LGPL-2.0 LGPL-2.1 BSD-2-Clause BSD-3-Clause Public Domain Apache-2.0	crush	unlimited	cephhash
radosgw	ceph	"REST gateway for RADOS distributed object store RADOS is a distributed object store used by the Ceph distributed storage system. This package provides a REST gateway to the object store that aims to implement a superset of Amazon's S3 service. . This package contains the proxy daemon and related tools only."	GPL-2.0+ GPL-2.0 GPL-3.0 LGPL-2.0 LGPL-2.1 BSD-2-Clause BSD-3-Clause Public Domain Apache-2.0	sha	512	

Package name	Source	Package Description	Package License	Encryption types	Encryption Max Key Length	Comment
radosgw	ceph	"REST gateway for RADOS distributed object store RADOS is a distributed object store used by the Ceph distributed storage system. This package provides a REST gateway to the object store that aims to implement a superset of Amazon's S3 service. . This package contains the proxy daemon and related tools only."	GPL-2.0+ GPL-2.0 GPL-3.0 LGPL-2.0 LGPL-2.1 BSD-2-Clause BSD-3-Clause Public Domain Apache-2.0	aes	256	
radosgw	ceph	"REST gateway for RADOS distributed object store RADOS is a distributed object store used by the Ceph distributed storage system. This package provides a REST gateway to the object store that aims to implement a superset of Amazon's S3 service. . This package contains the proxy daemon and related tools only."	GPL-2.0+ GPL-2.0 GPL-3.0 LGPL-2.0 LGPL-2.1 BSD-2-Clause BSD-3-Clause Public Domain Apache-2.0	abacus	0	
radosgw	ceph	"REST gateway for RADOS distributed object store RADOS is a distributed object store used by the Ceph distributed storage system. This package provides a REST gateway to the object store that aims to implement a superset of Amazon's S3 service. . This package contains the proxy daemon and related tools only."	GPL-2.0+ GPL-2.0 GPL-3.0 LGPL-2.0 LGPL-2.1 BSD-2-Clause BSD-3-Clause Public Domain Apache-2.0	md5	128	
python3-osprofiler	python-osprofiler	"OpenStack Profiler Library - Python 3.x OpenStack consists of multiple projects. Each project in turn is composed of multiple services. To process some request e.g. to boot a virtual machine OpenStack uses multiple services from different projects. In the case somethin works too slowly it's extremely complicated to understand what exactly goes wrong and to locate the bottleneck. . To resolve this issue a tiny but powerful library osprofiler has been interoduced and can be used by all OpenStack projects and their Python clients. To be able to generate one trace per request that goes through all involved services and builds a tree of calls (see an example <a href="http://pavlovic.me/rally/profiler/">http://pavlovic.me/rally/profiler/</a> ). . This package contains the Python 3.x module."	Apache-2.0			
openstack-dashboard-apache	horizon	"web application to control an OpenStack cloud - Apache support The OpenStack Dashboard is a web application to control an OpenStack cloud. It connects to OpenStack services such as Nova Swift or Keystone using the OpenStack REST API just as you would with the command line clients. . This package includes the configuration files to use within Apache. If you wish to configure Apache yourself use only openstack-dashboard."	Apache-2.0			
python-doc8-doc	python-doc8	"style checker for Sphinx (or other) RST documentation - doc Doc8 is an opinionated style checker for rst (with basic support for plain text) styles of documentation. . This package contains the documentation."	Apache-2.0			
heat-api	heat	"OpenStack orchestration service - ReST API Heat is a service to orchestrate multiple composite cloud applications using templates through both an OpenStack-native ReST API and a CloudFormation-compatible Query API. . This package contains the ReST API."	Apache-2.0			
python-oslo-db-doc	<a href="#">python-oslo.db</a>	"transitional dummy package for python-oslo-db-doc This transitional package is safe to remove."	Apache-2.0			

Package name	Source	Package Description	Package License	Encryption types	Encryption Max Key Length	Comment
python-xstatic-jquery-migrate	python-xstatic-jquery-migrate	"jQuery Migrate XStatic support - Python 2.x XStatic is a packaging standard to package external (often 3rd party) static files as a Python package so they are easily usable on all operating systems with any package management system or even without one. . Many Python projects need to use some specific data files like javascript css java applets images etc. Sometimes these files belong to YOUR project (then you may want to package them separately but you could also just put them into your main package). But in many other cases those files are maintained by someone else (like jQuery javascript library or even much bigger js libraries or applications) and you definitely do not really want to merge them into your project. So you want to have static file packages but you don't want to get lots of stuff you do not want. Thus stuff required by XStatic file packages (especially the main toplevel XStatic package) tries to obey to be a MINIMAL no-fat thing. XStatic doesn't "sell" any web framework or other stuff you don't want. Maybe there will be optional XStatic extensions for all sorts of stuff but they won't be required if you just want the files. . By having static files in packages it is also easier to build virtual envs support linux/bsd/... distribution package maintainers and even windows installs using the same mechanism. . This package provides JQuery Migrate support as a Python 2.x module."	Unknown			
python3-alabaster	alabaster	"Configurable sidebar-enabled Sphinx theme (Python 3) This theme is a modified "Kr" Sphinx theme from @kennethreitz (especially as used in his Requests project) which was itself originally based on @mitsuhiko's theme used for Flask & related projects. . This is the Python 3 version of the package."	BSD-3-Clause			
python3-logilab-common	logilab-common	"useful miscellaneous modules used by Logilab projects (Python3) logilab-common is a collection of low-level Python packages and modules designed to ease: . * handling command line options and configuration files * writing interactive command line tools * manipulation files and character strings * interfacing to OmniORB * generating SQL queries * running unit tests * manipulating tree structures * accessing RDBMS (currently PostgreSQL MySQL and sqlite) * generating text and HTML reports * logging * parsing XML processing instructions . This package contains the Python 3 version of logilab-common."	LGPL-2.1			
python-taskflow	python-taskflow	"Taskflow structured state management library - Python 2.7 TaskFlow is a library to do [jobs tasks flows] in a HA manner using different backends to be used with OpenStack projects. More information at <a href="http://wiki.openstack.org/wiki/TaskFlow">http://wiki.openstack.org/wiki/TaskFlow</a> . This package contains the Python 2.7 module."	Apache-2.0			
python-cinder	cinder	"OpenStack block storage system - Python libraries Cinder is a block Storage-as-a-Service system for the OpenStack cloud computing suite. It re-implements the features of Nova-volume which it directly replaces. . Cinder uses LVM partitions of your volume servers in order to provide iSCSI permanent block storage devices for your virtual machines running on Nova. It also has back-end drivers for many hardware and software storage solutions like Ceph NFS Net-APP etc. . This package contains the Python libraries that are part of Cinder."	Apache-2.0			

Package name	Source	Package Description	Package License	Encryption types	Encryption Max Key Length	Comment
libjs-rickshaw	rickshaw	"JavaScript toolkit for interactive time series graph Rickshaw is a JavaScript toolkit for creating interactive time series graphs. Rickshaw provides the elements you need to create interactive graphs: renderers legends hovers range selectors etc. You put the pieces together."	BSD-3-Clause MIT Apache-2.0			
libjs-twitter-bootstrap-datepicker	libjs-twitter-bootstrap-datepicker	"add datepicker picker to field or to any other element libjs-twitter-bootstrap-datepicker shows a Javascript calendar object when the user clicks on a date field or on the widget next to it. The users can then select a date conveniently. . This plugin needs libjs-twitter-bootstrap."	Apache-2.0			
python-repoze.who-plugins	python-repoze.who-plugins	"authentication framework for Python WSGI applications - plugins collection repoze.who is an identification and authentication framework for arbitrary Python WSGI applications; it acts as WSGI middleware and is inspired by Zope 2's Pluggable Authentication Service (PAS). . This package contains a collection of plugins for repoze.who in particular: . * repoze.who-friendlyform - developer-friendly forms * repoze.who-plugins.sa - SQLAlchemy integration * repoze.who-testutil - test utilities for repoze.who applications * repoze.who.plugins ldap - LDAP authentication * repoze.who.plugins openid - login via OpenID"	GPL-3.0			
golang-github-emicklei-go-restful-dev	golang-github-emicklei-go-restful	"build REST-style Web Services using Google Go Go-restful is a package for building REST-style Web Services using Google Go. REST asks developers to use HTTP methods explicitly and in a way that's consistent with the protocol definition. This basic REST design principle establishes a one-to-one mapping between create read update and delete (CRUD) operations and HTTP methods."	GPL-3.0			
python3-magnumclient	python-magnumclient	"client library for Magnum API - Python 3.x Magnum is an OpenStack API service developed by the OpenStack Containers Team making container orchestration engines such as Docker and Kubernetes available as first class resources in OpenStack. Magnum uses Heat to orchestrate an OS image which contains Docker and Kubernetes and runs that image in either virtual machines or bare metal in a cluster configuration. . This package contains the Python 3.x module."	Apache-2.0			
python3-semantic-version	python-semantic-version	"implementing the SemVer scheme - Python 3.x This small Python library provides a few tools to handle SemVer in Python. It follows strictly the 2.0.0 version of the SemVer scheme. semantic_version can also support versions which wouldn't match the semantic version scheme by converting a version such as 0.1.2.3.4 into 0.1.2+3.4. . This package contains the Python 3.x module."	BSD-2-Clause			
python-saharaclient-doc	python-saharaclient	"Client library for Openstack Sahara API server - documentation Sahara aims to provide users with simple means to provision a Hadoop cluster by specifying several parameters like Hadoop version cluster topology nodes hardware details and a few more. . This is a client for the Sahara which uses the OpenStack Image API. There's a Python API (the "saharaclient" module) and a command-line script ("sahara"). . This package contains the documentation."	Apache-2.0			

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neutron-doc	neutron	"Neutron is a virtual network service for Openstack - Docs Neutron is a virtual network service for Openstack and a part of Netstack. Just like OpenStack Nova provides an API to dynamically request and configure virtual servers Neutron provides an API to dynamically request and configure virtual networks. These networks connect "interfaces" from other OpenStack services (e.g. virtual NICs from Nova VMs). The Neutron API supports extensions to provide advanced network capabilities (e.g. QoS ACLs network monitoring etc.) . This package contains the documentation"	Apache-2.0			
openjdk-8-source	openjdk-8	"OpenJDK Development Kit (JDK) source files OpenJDK is a development environment for building applications applets and components using the Java programming language. . This package contains the Java programming language source files (src.zip) for all classes that make up the Java core API. . The packages are built using the IcedTea build support and patches from the IcedTea project."	unknown			
python3-kerberos	pykerberos	"GSSAPI interface module - Python 3.x This Python package is a high-level wrapper for Kerberos (GSSAPI) operations. The goal is to avoid having to build a module that wraps the entire Kerberos.framework and instead offer a limited set of functions that do what is needed for client/server Kerberos authentication based on <http://www.ietf.org/rfc/rfc4559.txt>. . Much of the C-code here is adapted from Apache's mod_auth_kerb-5.0rc7. . This package contains the Python 3.x module."	Apache-2.0			
python-oslo.vmware	python-oslo.vmware	"VMware library for OpenStack projects - Python 2.7 This package is part of the Oslo project which aims at providing unified Python libraries across all of OpenStack. It provides a VMware library for OpenStack projects. . This package contains the Python 2.7 module."	Apache-2.0			
pacemaker	pacemaker	"cluster resource manager At its core Pacemaker is a distributed finite state machine capable of co-ordinating the startup and recovery of inter-related services across a set of machines. . Pacemaker understands many different resource types (OCF SYSV systemd) and can accurately model the relationships between them (colocation ordering). . It can even use technology such as Docker to automatically isolate the resources managed by the cluster. . This package contains the Pacemaker daemons directly interacting with the cluster stack."	GPL-2.0+ GPL-2.0 LGPL-2.1	md5	128	
ironic-api	ironic	"bare metal hypervisor API for OpenStack - API server Ironic provision bare metal machines instead of virtual machines. It is a fork of the Nova Baremetal driver. It is best thought of as a bare metal hypervisor API and a set of plugins which interact with the bare metal hypervisors. By default it will use PXE and IPMI in concert to provision and turn on/off machines but Ironic also supports vendor-specific plugins which may implement additional functionality. . This package provides the Ironic API server. The ironic-api service provides a RESTful API that supports JSON and XML."	Apache-2.0			
erlang-diameter	erlang	"Erlang/OTP implementation of RFC 6733 protocol Interface with which a user creates a service that sends and receives messages using the Diameter protocol as defined in RFC 6733."	LGPL-2.1 Apache-2.0	aes	256	
erlang-diameter	erlang	"Erlang/OTP implementation of RFC 6733 protocol Interface with which a user creates a service that sends and receives messages using the Diameter protocol as defined in RFC 6733."	LGPL-2.1 Apache-2.0	diffiehellman	unlimited	



Package name	Source	Package Description	Package License	Encryption types	Encryption Max Key Length	Comment
erlang-diameter	erlang	"Erlang/OTP implementation of RFC 6733 protocol Interface with which a user creates a service that sends and receives messages using the Diameter protocol as defined in RFC 6733."	LGPL-2.1 Apache-2.0	blowfish	448	
erlang-diameter	erlang	"Erlang/OTP implementation of RFC 6733 protocol Interface with which a user creates a service that sends and receives messages using the Diameter protocol as defined in RFC 6733."	LGPL-2.1 Apache-2.0	sha	512	
erlang-diameter	erlang	"Erlang/OTP implementation of RFC 6733 protocol Interface with which a user creates a service that sends and receives messages using the Diameter protocol as defined in RFC 6733."	LGPL-2.1 Apache-2.0	hmac	160	
erlang-diameter	erlang	"Erlang/OTP implementation of RFC 6733 protocol Interface with which a user creates a service that sends and receives messages using the Diameter protocol as defined in RFC 6733."	LGPL-2.1 Apache-2.0	md5	128	
python-pexpect-doc	pexpect	"Python module for automating interactive applications (documentation) Pexpect is a pure Python module for spawning child applications; controlling them; and responding to expected patterns in their output. Pexpect works like Don Libes' Expect. Pexpect allows your script to spawn a child application and control it as if a human were typing commands. . This is the common documentation package."	ISC			
heat-engine	heat	"OpenStack orchestration service - engine Heat is a service to orchestrate multiple composite cloud applications using templates through both an OpenStack-native ReST API and a CloudFormation-compatible Query API. . This package contains the heat engine which is the core service of heat and which the API servers will use."	Apache-2.0			
python-appconf	python-django-appconf	"helper class handling configuration defaults of apps - 2.7 transition package Say you have an app with a few defaults which you want to refer to in the app's code without repeating yourself all the time. Django-appconf provides a simple helper class to implement those defaults. . This is a transitional package to upgrade to python-django-appconf and it is safe to remove."	BSD-3-Clause			
websockify	websockify	"WebSockets support for any application/server websockify was formerly named wsproxy and was part of the noVNC project. . At the most basic level websockify just translates WebSockets traffic to normal socket traffic. Websockify accepts the WebSockets handshake parses it and then begins forwarding traffic between the client and the target in both directions. . Websockify supports all versions of the WebSockets protocol (Hixie and HyBi). The older Hixie versions of the protocol only support UTF-8 text payloads. In order to transport binary data over UTF-8 an encoding must used to encapsulate the data within UTF-8. . With Hixie clients Websockify uses base64 to encode all traffic to and from the client. This does not affect the data between websockify and the server. . With HyBi clients websockify negotiates whether to base64 encode traffic to and from the client via the subprotocol header (Sec-WebSocket-Protocol). The valid subprotocol values are 'binary' and 'base64' and if the client sends both then the server (the Python implementation) will prefer 'binary'. The 'binary' subprotocol indicates that the data will be sent raw using binary WebSocket frames. Some HyBi clients (such as the Flash fallback and older Chrome and iOS versions) do not support binary data which is why the negotiation is necessary."	GPL-2.0+ GPL-2.0 BSD-2-Clause			

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python-xvfbwrapper	python-xvfbwrapper	"headless display inside Xvfb - Python 2.x Python wrapper for running a display inside X virtual framebuffer (Xvfb). . In the X Window System Xvfb or X Virtual FrameBuffer is an X11 server that performs all graphical operations in memory not showing any screen output. This virtual server does not require the computer to run or to even have a screen or an input device. Only a network layer is necessary. . This package contains the Python 2.x module."	Unknown			
erlang-test-server	erlang	"Erlang/OTP server for automated application testing Test Server is a portable test server for automated application testing. The server can run test suites on local or remote targets and log progress and results to HTML pages. The main purpose of Test Server is to act as engine inside customized test tools. A callback interface for such framework applications is provided."	LGPL-2.1 Apache-2.0	aes	256	
erlang-test-server	erlang	"Erlang/OTP server for automated application testing Test Server is a portable test server for automated application testing. The server can run test suites on local or remote targets and log progress and results to HTML pages. The main purpose of Test Server is to act as engine inside customized test tools. A callback interface for such framework applications is provided."	LGPL-2.1 Apache-2.0	diffiehellman	unlimited	
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erlang-test-server	erlang	"Erlang/OTP server for automated application testing Test Server is a portable test server for automated application testing. The server can run test suites on local or remote targets and log progress and results to HTML pages. The main purpose of Test Server is to act as engine inside customized test tools. A callback interface for such framework applications is provided."	LGPL-2.1 Apache-2.0	hmac	160	
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Package name	Source	Package Description	Package License	Encryption types	Encryption Max Key Length	Comment
python3-coffin	python-coffin	"Jinja2 adapter for Django - Python 3.x Coffin is a Jinja2 adapter for Django. Coffin currently makes the following Django tags available in Jinja: * {% cache %} - has currently an incompatibility: The second argument (the fragment name) needs to be specified with surrounding quotes if it is supposed to be a literal string according to Jinja2 syntax. It will otherwise be considered an identifier and resolved as a variable. * {% load %} - is actually a no-op in Coffin since templatetag libraries are always loaded. See also "Custom Filters and extensions". * {% spaceless %} * {% url %} - additionally a view url() filter is also available. Or use view url() for Django 1.5 style lookups by the value of view. * {% with %} * {% csrf_token %} . Django filters that are ported in Coffin: * date * floatformat * pluralize (expects an optional second parameter rather than the comma syntax) * time * timesince * timeuntil * truncatewords * truncatewords_html . This package contains the Python 3.x module."	BSD-3-Clause			
libsam4	corosync	"Standards-based cluster framework Sam library Corosync is a project to implement a production quality "Revised BSD" licensed implementation of all core functionalities required by openais. The project implements cutting edge research on virtual synchrony to provide 100% correct operation in the face of failures or partitionable networks with excellent performance characteristics. . The Application Interface Specification is a software API and policies which are used to develop applications that maintain service during faults. . This package contains the Sam library which is a library included in Corosync."	Public Domain			
python-novnc	novnc	"HTML5 VNC client - libraries noVNC is a HTML5 VNC (WebSockets Canvas) with encryption (wss://) support client that runs well in any modern browser including mobile browsers (iPhone/iPad and Android). More than 16 companies/projects have integrated noVNC into their products including Ganeti Web Manager OpenStack and OpenNebula. . This package installs the core Python parts of NoVNC."	GPL-2.0 LGPL-2.1 BSD-3-Clause			
python3-sphinx	sphinx	"documentation generator for Python projects (implemented in Python 3) Sphinx is a tool for producing documentation for Python projects using reStructuredText as markup language. . Sphinx features: * HTML CHM LaTeX output * Cross-referencing source code * Automatic indices * Code highlighting using Pygments * Extensibility. Existing extensions: - automatic testing of code snippets - including docstrings from Python modules. . This package includes Python 3 modules."	MIT Public Domain			
python-unittest2	unittest2	"backport of the enhanced unittest testing framework - Python 2.7 unittest2 is an enhanced version of unittest including a standard test runner (automatic test discovery) class and module level fixtures (setUpClass / setUpModule etc) many powerful new assert methods better resource management with addCleanups and a host of other new features. These new features are *all* going into the Python version of unittest in Python 2.7 and Python 3.2. The point of unittest2 is that it works with Python 2.4 - 2.6; you can use it now. . This package contains the Python 2.7 module."	BSD-3-Clause			

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blt-dev	blt	"graphics extension library for Tcl/Tk - development files. BLT is a library of useful extensions for the Tcl language and the popular Tk graphical toolkit. It adds a vector and tree data type, background execution and some debugging tools to Tcl, and provides several new widgets for Tk, including graphs, bar-charts, trees, tabs, splines and hyper-links, as well as a new geometry manager, drag & drop support, and more. . This package contains the headers and libraries needed to extend or embed BLT."	Unknown			
python3-xstatic-roboto-fontface	python-xstatic-roboto-fontface	"Roboto Fontface XStatic support - Python 3.x. XStatic is a Python web development tool for handling required static data files from external projects, such as CSS, images, and JavaScript. It provides a lightweight infrastructure to manage them via Python modules that your app can depend on in a portable, virtualenv-friendly way instead of using embedded copies. . This package contains the Python 3.x module support for the Roboto Fontface. See the description of the fonts-roboto-fontface package."	Apache-2.0			
openvswitch-ipsec	openvswitch	"Open vSwitch GRE-over-IPsec support. Open vSwitch is a production quality, multilayer, software-based Ethernet virtual switch. It is designed to enable massive network automation through programmatic extension, while still supporting standard management interfaces and protocols (e.g. NetFlow, IPFIX, sFlow, SPAN, RSPAN, CLI, LACP, 802.1ag). In addition, it is designed to support distribution across multiple physical servers similar to VMware's vNetwork distributed vswitch or Cisco's Nexus 1000V. . The ovs-monitor-ipsec script provides support for encrypting GRE tunnels with IPsec."	GPL-2.0 LGPL-2.1 BSD-2-Clause Apache-2.0	lex	128	
openvswitch-ipsec	openvswitch	"Open vSwitch GRE-over-IPsec support. Open vSwitch is a production quality, multilayer, software-based Ethernet virtual switch. It is designed to enable massive network automation through programmatic extension, while still supporting standard management interfaces and protocols (e.g. NetFlow, IPFIX, sFlow, SPAN, RSPAN, CLI, LACP, 802.1ag). In addition, it is designed to support distribution across multiple physical servers similar to VMware's vNetwork distributed vswitch or Cisco's Nexus 1000V. . The ovs-monitor-ipsec script provides support for encrypting GRE tunnels with IPsec."	GPL-2.0 LGPL-2.1 BSD-2-Clause Apache-2.0	crypt	65	
openvswitch-ipsec	openvswitch	"Open vSwitch GRE-over-IPsec support. Open vSwitch is a production quality, multilayer, software-based Ethernet virtual switch. It is designed to enable massive network automation through programmatic extension, while still supporting standard management interfaces and protocols (e.g. NetFlow, IPFIX, sFlow, SPAN, RSPAN, CLI, LACP, 802.1ag). In addition, it is designed to support distribution across multiple physical servers similar to VMware's vNetwork distributed vswitch or Cisco's Nexus 1000V. . The ovs-monitor-ipsec script provides support for encrypting GRE tunnels with IPsec."	GPL-2.0 LGPL-2.1 BSD-2-Clause Apache-2.0	aes	256	

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openvswitch-ipsec	openvswitch	"Open vSwitch GRE-over-IPsec support Open vSwitch is a production quality multilayer software-based Ethernet virtual switch. It is designed to enable massive network automation through programmatic extension while still supporting standard management interfaces and protocols (e.g. NetFlow IPFIX sFlow SPAN RSPAN CLI LACP 802.1ag). In addition it is designed to support distribution across multiple physical servers similar to VMware's vNetwork distributed vswitch or Cisco's Nexus 1000V. . The ovs-monitor-ipsec script provides support for encrypting GRE tunnels with IPsec."	GPL-2.0 LGPL-2.1 BSD-2-Clause Apache-2.0	sha	512	
openvswitch-ipsec	openvswitch	"Open vSwitch GRE-over-IPsec support Open vSwitch is a production quality multilayer software-based Ethernet virtual switch. It is designed to enable massive network automation through programmatic extension while still supporting standard management interfaces and protocols (e.g. NetFlow IPFIX sFlow SPAN RSPAN CLI LACP 802.1ag). In addition it is designed to support distribution across multiple physical servers similar to VMware's vNetwork distributed vswitch or Cisco's Nexus 1000V. . The ovs-monitor-ipsec script provides support for encrypting GRE tunnels with IPsec."	GPL-2.0 LGPL-2.1 BSD-2-Clause Apache-2.0	md5	128	
python3-oslo-utils	python-oslo.utils	"transitional dummy package for python3-oslo-utils This transitional package to python3-oslo.utils is safe to remove."	Apache-2.0			
murano-rabbitmq	murano	"cloud-ready application catalog - rabbitmq configuration Murano Project introduces an application catalog which allows application developers and cloud administrators to publish various cloud-ready applications in a browsable categorised catalog which may be used by the cloud users (including the inexperienced ones) to pick-up the needed applications and services and composes the reliable environments out of them in a "push-the-button" manner. . This package contains configuration for rabbitmq."	Apache-2.0			
python3-oauth2client	python-oauth2client	"OAuth 2.0 client library - Python 3.x The oauth2client is a client library for OAuth 2.0. . OAuth is an open standard for authorization. OAuth provides a method for clients to access server resources on behalf of a resource owner (such as a different client or an end-user). It also provides a process for end-users to authorize third-party access to their server resources without sharing their credentials (typically a username and password pair) using user-agent redirections. . OAuth is a service that is complementary to and therefore distinct from OpenID. OAuth is also distinct from OATH which is a reference architecture for authentication (i.e. not a standard). . This package provides the Python 3.x module."	Apache-2.0			
python3-mako	mako	"fast and lightweight templating for the Python 3 platform Mako is a template library written in Python. It provides a familiar non-XML syntax which compiles into Python modules for maximum performance. Mako's syntax and API borrows from the best ideas of many others including Django templates Cheetah Myghty and Genshi. Conceptually Mako is an embedded Python (i.e. Python Server Page) language which refines the familiar ideas of componentized layout and inheritance to produce one of the most straightforward and flexible models available while also maintaining close ties to Python calling and scoping semantics."	BSD-3-Clause			

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python-flake8	python-flake8	"code checker using pep8 and pyflakes Flake8 is a wrapper around PyFlakes pep8 and Ned's McCabe script. Flake8 runs all tools by launching the single 'flake8' script but ignores pep8 and PyFlakes extended options and just uses defaults. It displays the warnings in a per-file merged output. . This package provides Python 2 module bindings only."	Unknown			
aodh-listener	aodh	"OpenStack Telemetry (Ceilometer) Alarming - listener Ceilometer aims to deliver a Single Point Of Contact for billing systems providing all the counters they need to establish customer billing across all current and future OpenStack components. The delivery of counters must be traceable and auditable the counters must be easily extensible to support new projects and agents doing data collections should be independent of the overall system. . (A ceilometer is an instrument that measures cloud coverage.) . This package contains the listener daemon: it does an alarm on an event."	Apache-2.0			
libnl-3-dev	libnl3	"development library and headers for libnl-3 This is a library for applications dealing with netlink sockets. The library provides an interface for raw netlink messaging and various netlink family specific interfaces. . This package contains the headers needed by all libraries and the files that are needed to build applications using libnl3."	GPL-2.0 LGPL-2.1			
openvswitch-test	openvswitch	"Open vSwitch test package Open vSwitch is a production quality multilayer software-based Ethernet virtual switch. It is designed to enable massive network automation through programmatic extension while still supporting standard management interfaces and protocols (e.g. NetFlow IPFIX sFlow SPAN RSPAN CLI LACP 802.1ag). In addition it is designed to support distribution across multiple physical servers similar to VMware's vNetwork distributed vswitch or Cisco's Nexus 1000V. . This package contains utilities that are useful to diagnose performance and connectivity issues in Open vSwitch setup."	GPL-2.0 LGPL-2.1 BSD-2-Clause Apache-2.0	lex	128	
openvswitch-test	openvswitch	"Open vSwitch test package Open vSwitch is a production quality multilayer software-based Ethernet virtual switch. It is designed to enable massive network automation through programmatic extension while still supporting standard management interfaces and protocols (e.g. NetFlow IPFIX sFlow SPAN RSPAN CLI LACP 802.1ag). In addition it is designed to support distribution across multiple physical servers similar to VMware's vNetwork distributed vswitch or Cisco's Nexus 1000V. . This package contains utilities that are useful to diagnose performance and connectivity issues in Open vSwitch setup."	GPL-2.0 LGPL-2.1 BSD-2-Clause Apache-2.0	crypt	65	
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python-pil-dbg	pillow	"Python Imaging Library (debug extension) The Python Imaging Library (PIL) adds an image object to your Python interpreter. You can load images from a variety of file formats and apply a rich set of image operations to them. . This package contains the extension built for the Python debug interpreter."	unknown			
python-django-babel-doc	python-django-babel	"Utilities for using Babel in Django - doc This package contains various utilities for integration of Babel into the Django web framework: * A message extraction plugin for Django templates. * A middleware class that adds the Babel Locale object to requests. * A set of template tags for date and number formatting. . Babel provides a message extraction framework similar to GNU xgettext but more extensible and geared towards Python applications. While Django does provide wrapper scripts for making the use of xgettext more convenient the extraction functionality is rather limited. For example you can't use template files with an extension other than .html and everything needs to be in your project package directory. . This package contains the documentation."	BSD-3-Clause			
erlang-dialyzer	erlang	"Erlang/OTP discrepancy analyzer application Dialyzer is a static analysis tool that identifies software discrepancies such as type errors unreachable code unnecessary tests etc. in single Erlang modules or entire (sets of) applications."	LGPL-2.1 Apache-2.0	aes	256	
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python-cffi-backend-dbg	python-cffi	"Foreign Function Interface for Python calling C code (Debug version) Convenient and reliable way of calling C code from Python. . The aim of this project is to provide a convenient and reliable way of calling C code from Python. It keeps Python logic in Python and minimises the C required. It is able to work at either the C API or ABI level unlike most other approaches that only support the ABI level. . This package contains the debug version of the python-cffi backend."	Unknown			
python-oslotest-doc	python-oslotest	"OpenStack test framework - doc OpenStack test framework that provides base classes and fixtures for creating unit and functional tests. . This package contains the documentation."	Apache-2.0			
python3-portlocker	portlocker	"easy API to file locking (Python 3) Portlocker is a cross-platform library to provide an easy API to file locking. . This is the Python 3 version of the package."	Unknown			
python-saharaclient	python-saharaclient	"Client library for Openstack Sahara API server - Python 2.7 module Sahara aims to provide users with simple means to provision a Hadoop cluster by specifying several parameters like Hadoop version cluster topology nodes hardware details and a few more. . This is a client for the Sahara which uses the OpenStack Image API. There's a Python API (the "saharaclient" module) and a command-line script ("sahara"). . This package provides the Python 2.7 module."	Apache-2.0			
live-boot	live-boot	"Live System Boot Components The Live Systems project maintains the components to build Debian based Live systems and the official Debian Live images themselves. . live-boot contains the components to configure a live system during the boot process (early userspace). . In addition to live-boot a backend for the initrd generation is required such as live-boot-initramfs-tools."	GPL-3.0			
python-httplib	python-httplib	"HTTP client mock - Python 2.x Once upon a time a Python developer wanted to use a RESTful API everything was fine but until the day he needed to test the code that hits the RESTful API: what if the API server is down? What if its content has changed ? . Don't worry HTTPretty is here for you. . This package provides the Python 2.x module."	MIT			
python-oslo.context-doc	python-oslo.context	"WSGI context helpers for OpenStack - doc The Oslo context library has helpers to maintain useful information about a request context. The request context is usually populated in the WSGI pipeline and used by various modules such as logging. . This package contains the documentation."	Apache-2.0			
python-uritemplate	python-uritemplate	"implementation of RFC6570 - Python 2.x python-uritemplate implements RFC6570. URI Template can expand templates up to and including Level 4 in that specification. It exposes one method "expand". . This package provides the Python 2.x module."	Apache-2.0			



Package name	Source	Package Description	Package License	Encryption types	Encryption Max Key Length	Comment
mysql-server-wsrep-core-5.6	mysql-wsrep-5.6	"MySQL database server binaries MySQL is a fast stable and true multi-user multi-threaded SQL database server. SQL (Structured Query Language) is the most popular database query language in the world. The main goals of MySQL are speed robustness and ease of use. . This package includes the server binaries but doesn't contain all the infrastructure needed to setup system databases."	GPL-2.0+ GPL-2.0 LGPL-2.0 BSD-3-Clause BSD MIT Public Domain ISC			
neutron-l3-agent	neutron	"OpenStack virtual network service - l3 agent Neutron provides an API to dynamically request and configure virtual networks. These networks connect "interfaces" from other OpenStack services (such as vNICs from Nova VMs). The Neutron API supports extensions to provide advanced network capabilities including QoS ACLs and network monitoring. . This package provides the l3 agent."	Apache-2.0			
python3-ceilometerclient	python-ceilometerclient	"Client library for Openstack Ceilometer API server - Python 3.x Ceilometer aims to deliver a unique point of contact for billing systems to acquire all counters they need to establish customer billing across all current and future OpenStack components. The delivery of counters must be tracable and auditable the counters must be easily extensible to support new projects and agents doing data collections should be independent of the overall system. . This is a client for the Ceilometer which uses the OpenStack Image API. There's a Python API (the "ceilometerclient" module) and a command-line script ("ceilometer"). . This package contains the Python 3.x module."	Apache-2.0			
python-django-openstack-auth	python-django-openstack-auth	"Django authentication backend for Openstack - Python 2.7 Django authentication backend for use with the OpenStack Keystone Identity backend. This Python module is used by Horizon (the Openstack Dashport web GUI) to auth against Keystone. . This package provides the Python 2.7 module."	Apache-2.0			
python3-keystonemiddleware	python-keystonemiddleware	"Middleware for OpenStack Identity (Keystone) - Python 3.x This package contains middleware modules designed to provide authentication and authorization features to web services other than Keystone. The most prominent module is keystonemiddleware.auth_token. This package does not expose any CLI or Python API features. . This package contains the Python 3.x module."	Apache-2.0			
python-jinja2-doc	jinja2	"documentation for the Jinja2 Python library Jinja2 is a small but fast and easy to use stand-alone template engine . This package contains the documentation for Jinja2 in HTML and reStructuredText formats."	GPL-2.0 GPL-3.0 MIT			
python-senlinclient-doc	python-senlinclient	"OpenStack Clustering API Client Library - doc This is a client library for Senlin built on the Senlin clustering API. It provides a Python API (the senlinclient module) and a command-line tool (senlin). . This package contains the documentation."	Apache-2.0			
openjdk-8-demo	openjdk-8	"Java runtime based on OpenJDK (demos and examples) OpenJDK Java runtime . The packages are built using the IcedTea build support and patches from the IcedTea project."	unknown			
python-oslo.log	python-oslo.log	"OpenStack logging configuration library - Python 2.x OpenStack logging configuration library provides standardized configuration for all openstack projects. It also provides custom formatters handlers and support for context specific logging (like resource id's etc). . This package contains the Python 2.x module."	Apache-2.0			

Package name	Source	Package Description	Package License	Encryption types	Encryption Max Key Length	Comment
python-ironic-lib	python-ironic-lib	"common library used by various Ironic projects - Python 2.7 A common library to be used by various projects in the Ironic ecosystem. . Ironic provision bare metal machines instead of virtual machines. It is a fork of the Nova Baremetal driver. It is best thought of as a bare metal hypervisor API and a set of plugins which interact with the bare metal hypervisors. By default it will use PXE and IPMI in concert to provision and turn on/off machines but Ironic also supports vendor-specific plugins which may implement additional functionality. . This package provides the Python 2.7 module."	Apache-2.0			
python3-fixtures	python-fixtures	"PyUnit extension for defining test fixtures outside of test cases - Python 3.x A PyUnit extension for defining test fixtures outside of test cases. Each fixture encapsulates creating reusing and freeing some state - be that a temporary directory on disk SQL server connection or just a particular object graph. This is extremely useful for testing and general resource management. . Fixtures ships with the base class unittest glue and a number of precanned concrete fixtures. . This package provides the Python 3.x module."	BSD-3-Clause Apache-2.0			
python-pip	python-pip	"alternative Python package installer pip is a replacement for easy_install and is intended to be an improved Python package installer. It integrates with virtualenv doesn't do partial installs can save package state for replaying can install from non-egg sources and can install from version control repositories."	Unknown			
gunicorn3	gunicorn	"Event-based HTTP/WSGI server Green Unicorn (gunicorn) is an HTTP/WSGI server designed to serve fast clients or sleepy applications. That is to say; behind a buffering front-end server such as nginx or lighttpd. . * Optional support for Eventlet Tornado and Gevent to provide asynchronous long-polling ("Comet") connections. * Process management: Gunicorn reaps and restarts workers that die. * Easy integration with Django and Paster compatible applications (Pylons TurboGears 2 etc. * Load balancing via pre-fork and a shared socket * Graceful worker process restarts * Upgrading without losing connections * Decode chunked transfers on-the-fly allowing upload progress notifications or stream-based protocols over HTTP . This is the Python 3 version."	GPL-3.0 BSD MIT			
qemu-system-mips	qemu	"QEMU full system emulation binaries (mips) QEMU is a fast processor emulator: currently the package supports MIPS emulation. By using dynamic translation it achieves reasonable speed while being easy to port on new host CPUs. . This package provides the full system emulation binaries to emulate the following mips hardware: mips mipsel mips64 mips64el. . In system emulation mode QEMU emulates a full system including a processor and various peripherals. It enables easier testing and debugging of system code. It can also be used to provide virtual hosting of several virtual machines on a single server."	GPL-2.0 MIT	crypt	65	

Package name	Source	Package Description	Package License	Encryption types	Encryption Max Key Length	Comment
qemu-system-mips	qemu	"QEMU full system emulation binaries (mips) QEMU is a fast processor emulator: currently the package supports MIPS emulation. By using dynamic translation it achieves reasonable speed while being easy to port on new host CPUs. . This package provides the full system emulation binaries to emulate the following mips hardware: mips mipsel mips64 mips64el. . In system emulation mode QEMU emulates a full system including a processor and various peripherals. It enables easier testing and debugging of system code. It can also be used to provide virtual hosting of several virtual machines on a single server."	GPL-2.0 MIT	aes	256	
qemu-system-mips	qemu	"QEMU full system emulation binaries (mips) QEMU is a fast processor emulator: currently the package supports MIPS emulation. By using dynamic translation it achieves reasonable speed while being easy to port on new host CPUs. . This package provides the full system emulation binaries to emulate the following mips hardware: mips mipsel mips64 mips64el. . In system emulation mode QEMU emulates a full system including a processor and various peripherals. It enables easier testing and debugging of system code. It can also be used to provide virtual hosting of several virtual machines on a single server."	GPL-2.0 MIT	des	56	
qemu-system-mips	qemu	"QEMU full system emulation binaries (mips) QEMU is a fast processor emulator: currently the package supports MIPS emulation. By using dynamic translation it achieves reasonable speed while being easy to port on new host CPUs. . This package provides the full system emulation binaries to emulate the following mips hardware: mips mipsel mips64 mips64el. . In system emulation mode QEMU emulates a full system including a processor and various peripherals. It enables easier testing and debugging of system code. It can also be used to provide virtual hosting of several virtual machines on a single server."	GPL-2.0 MIT	tripledes	168	
qemu-system-mips	qemu	"QEMU full system emulation binaries (mips) QEMU is a fast processor emulator: currently the package supports MIPS emulation. By using dynamic translation it achieves reasonable speed while being easy to port on new host CPUs. . This package provides the full system emulation binaries to emulate the following mips hardware: mips mipsel mips64 mips64el. . In system emulation mode QEMU emulates a full system including a processor and various peripherals. It enables easier testing and debugging of system code. It can also be used to provide virtual hosting of several virtual machines on a single server."	GPL-2.0 MIT	sha	512	
python3-kafka	python-kafka	"Pure Python client for Apache Kafka - Python 3.x This module provides low-level protocol support for Apache Kafka as well as high-level consumer and producer classes. Request batching is supported by the protocol as well as broker-aware request routing. Gzip and Snappy compression is also supported for message sets. . This package contains the Python 3.x module."	Apache-2.0			
glance-glare	glance	"OpenStack Artifacts - API server The Glance project provides services for discovering registering and retrieving virtual machine images over the cloud. They may be stand-alone services or may be used to deliver images from object stores such as OpenStack's Swift service to Nova's compute nodes. . This package contains the Glance Glare artifacts API server."	Apache-2.0			

Package name	Source	Package Description	Package License	Encryption types	Encryption Max Key Length	Comment
python3-amqp	python-amqp	"Low-level AMQP client (Python3 version) This is a fork of amqp-lib which was originally written by Barry Pederson. It is maintained by the Celery project and used by kombu as a pure Python alternative when librabbitmq is not available. . This library should be API compatible with librabbitmq. Differences from amqp-lib are: * Supports draining events from multiple channels (Connection.drain_events). * Support for timeouts. * Channels are restored after channel error instead of having to close the connection. * Support for heartbeats. * Supports RabbitMQ extensions: - Consumer Cancel Notifications. - Publisher confirms. - Exchange-to-exchange bindings: exchange_bind / exchange_unbind. * Support for basic_return. * Uses AMQP 0-9-1 instead of 0-8. * Exposes the underlying socket as Connection.sock. * Adds Channel.no_ack_consumers to keep track of consumer tags that set the no_ack flag. * Slightly better at error recovery. . This package contains the Python 3 version of the library."	GPL-2.0 LGPL-2.1			
python3-oslo-concurrency	python-oslo.concurrency	"transitional dummy package for python3-oslo-concurrency This transitional package is safe to remove and use python3-oslo.concurrency instead."	Apache-2.0			
libradosstriper1-dbg	ceph	"debugging symbols for libradosstriper libradosstriper is a striping interface built on top of the rados library allowing to stripe bigger objects onto several standard rados objects using an interface very similar to the rados one. . This package contains debugging symbols for libradosstriper."	GPL-2.0+ GPL-2.0 GPL-3.0 LGPL-2.0 LGPL-2.1 BSD-2-Clause BSD-3-Clause Public Domain Apache-2.0	crush	unlimited	cephhash
libradosstriper1-dbg	ceph	"debugging symbols for libradosstriper libradosstriper is a striping interface built on top of the rados library allowing to stripe bigger objects onto several standard rados objects using an interface very similar to the rados one. . This package contains debugging symbols for libradosstriper."	GPL-2.0+ GPL-2.0 GPL-3.0 LGPL-2.0 LGPL-2.1 BSD-2-Clause BSD-3-Clause Public Domain Apache-2.0	sha	512	
libradosstriper1-dbg	ceph	"debugging symbols for libradosstriper libradosstriper is a striping interface built on top of the rados library allowing to stripe bigger objects onto several standard rados objects using an interface very similar to the rados one. . This package contains debugging symbols for libradosstriper."	GPL-2.0+ GPL-2.0 GPL-3.0 LGPL-2.0 LGPL-2.1 BSD-2-Clause BSD-3-Clause Public Domain Apache-2.0	aes	256	
libradosstriper1-dbg	ceph	"debugging symbols for libradosstriper libradosstriper is a striping interface built on top of the rados library allowing to stripe bigger objects onto several standard rados objects using an interface very similar to the rados one. . This package contains debugging symbols for libradosstriper."	GPL-2.0+ GPL-2.0 GPL-3.0 LGPL-2.0 LGPL-2.1 BSD-2-Clause BSD-3-Clause Public Domain Apache-2.0	abacus	0	
libradosstriper1-dbg	ceph	"debugging symbols for libradosstriper libradosstriper is a striping interface built on top of the rados library allowing to stripe bigger objects onto several standard rados objects using an interface very similar to the rados one. . This package contains debugging symbols for libradosstriper."	GPL-2.0+ GPL-2.0 GPL-3.0 LGPL-2.0 LGPL-2.1 BSD-2-Clause BSD-3-Clause Public Domain Apache-2.0	md5	128	
python3-taskflow	python-taskflow	"Taskflow structured state management library - Python 3.x TaskFlow is a library to do [jobs tasks flows] in a HA manner using different backends to be used with OpenStack projects. More information at <a href="http://wiki.openstack.org/wiki/TaskFlow">http://wiki.openstack.org/wiki/TaskFlow</a> . This package contains the Python 3.x module."	Apache-2.0			
libvirt-daemon	libvirt	"programs for the libvirt library Libvirt is a C toolkit to interact with the virtualization capabilities of recent versions of Linux (and other OSes). The library aims at providing a long term stable C API for different virtualization mechanisms. It currently supports QEMU KVM XEN OpenVZ LXC and VirtualBox. . This package contains the libvirt-daemon."	GPL-2.0 GPL-3.0 LGPL-3.0 MIT	sha	512	

Package name	Source	Package Description	Package License	Encryption types	Encryption Max Key Length	Comment
libvirt-daemon	libvirt	"programs for the libvirt library Libvirt is a C toolkit to interact with the virtualization capabilities of recent versions of Linux (and other OSes). The library aims at providing a long term stable C API for different virtualization mechanisms. It currently supports QEMU KVM XEN OpenVZ LXC and VirtualBox. . This package contains the libvirt-daemon."	GPL-2.0 GPL-3.0 LGPL-3.0 MIT	md5	128	
libqpid-proton2-dev-doc	qpid-proton	"Developer documentation for Qpid Proton Qpid Proton is a high-performance lightweight messaging library. It can be used in the widest range of messaging applications including brokers client libraries routers bridges proxies and more. Proton makes it trivial to integrate with the AMQP 1.0 ecosystem from any platform environment or language. . This package provides C developer documentation for Qpid Proton."	GPL-2.0+ GPL-2.0 BSD-3-Clause Apache-2.0			
python3-requests-mock	python-requests-mock	"mock out responses from the requests package - Python 3.x requests-mock provides a building block to stub out the HTTP requests_ portions of your testing code. Everything in requests_ eventually goes through an adapter to do the transport work. requests-mock creates a custom adapter that allows you to predefine responses when certain URIs are called. There are then a number of methods provided to get the adapter used. . This package contains the Python 3.x module."	Apache-2.0			
python-glance-doc	glance	"OpenStack Image Registry and Delivery Service - Documentation The Glance project provides services for discovering registering and retrieving virtual machine images over the cloud. They may be stand-alone services or may be used to deliver images from object stores such as OpenStack's Swift service to Nova's compute nodes. . This package contains the documentation."	Apache-2.0			
python-pil.imagetk-dbg	pillow	"Python Imaging Library - ImageTk Module (debug extension) Tk dependent python-pil module. . This package contains the extension built for the Python debug interpreter."	unknown			
openjdk-8-jre-zero	openjdk-8	"Alternative JVM for OpenJDK using Zero/Shark The package provides an alternative runtime using the Zero VM and the Shark Just In Time Compiler (JIT). Built on architectures in addition to the Hotspot VM as a debugging aid for those architectures which don't have a Hotspot VM. . The VM is started with the option '-zero'. See the README.Debian for details."	unknown			
glance-common	glance	"OpenStack Image Registry and Delivery Service - common files The Glance project provides services for discovering registering and retrieving virtual machine images over the cloud. They may be stand-alone services or may be used to deliver images from object stores such as OpenStack's Swift service to Nova's compute nodes. . This package contains common files for Glance."	Apache-2.0			
python-sqlalchemy-utils-doc	python-sqlalchemy-utils	"various utility functions for SQLAlchemy - doc Various utility functions and custom data types for SQLAlchemy. . SQLAlchemy is an SQL database abstraction library for Python. . This package contains the documentation."	BSD-3-Clause			
librados2	ceph	"RADOS distributed object store client library RADOS is a reliable autonomic distributed object storage cluster developed as part of the Ceph distributed storage system. This is a shared library allowing applications to access the distributed object store using a simple file-like interface."	GPL-2.0+ GPL-2.0 GPL-3.0 LGPL-2.0 LGPL-2.1 BSD-2-Clause BSD-3-Clause Public Domain Apache-2.0	crush	unlimited	cephhash

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librados2	ceph	"RADOS distributed object store client library RADOS is a reliable autonomous distributed object storage cluster developed as part of the Ceph distributed storage system. This is a shared library allowing applications to access the distributed object store using a simple file-like interface."	GPL-2.0+ GPL-2.0 GPL-3.0 LGPL-2.0 LGPL-2.1 BSD-2-Clause BSD-3-Clause Public Domain Apache-2.0	sha	512	
librados2	ceph	"RADOS distributed object store client library RADOS is a reliable autonomous distributed object storage cluster developed as part of the Ceph distributed storage system. This is a shared library allowing applications to access the distributed object store using a simple file-like interface."	GPL-2.0+ GPL-2.0 GPL-3.0 LGPL-2.0 LGPL-2.1 BSD-2-Clause BSD-3-Clause Public Domain Apache-2.0	aes	256	
librados2	ceph	"RADOS distributed object store client library RADOS is a reliable autonomous distributed object storage cluster developed as part of the Ceph distributed storage system. This is a shared library allowing applications to access the distributed object store using a simple file-like interface."	GPL-2.0+ GPL-2.0 GPL-3.0 LGPL-2.0 LGPL-2.1 BSD-2-Clause BSD-3-Clause Public Domain Apache-2.0	abacus	0	
librados2	ceph	"RADOS distributed object store client library RADOS is a reliable autonomous distributed object storage cluster developed as part of the Ceph distributed storage system. This is a shared library allowing applications to access the distributed object store using a simple file-like interface."	GPL-2.0+ GPL-2.0 GPL-3.0 LGPL-2.0 LGPL-2.1 BSD-2-Clause BSD-3-Clause Public Domain Apache-2.0	md5	128	
python-oslo-log	python-oslo.log	"transitional dummy package for python-oslo-log This transitional package to python-oslo.log is safe to remove."	Apache-2.0			
python-pbr	python-pbr	"inject useful and sensible default behaviors into setuptools - Python 2.x PBR (Python Build Reasonableness) is a library that injects some useful and sensible default behaviors into your setuptools run. PBR can: * Manage version number based on git revisions and tags (Version file). * Generate AUTHORS file from git log * Generate ChangeLog from git log * Generate Sphinx autodoc stub files for your whole module * Store your dependencies in a pip requirements file * Use your README file as a long_description * Smartly find packages under your root package . PBR is only mildly configurable. The basic idea is that there's a decent way to run things and if you do you should reap the rewards because then it's simple and repeatable. If you want to do things differently cool! But you've already got the power of Python at your fingertips so you don't really need PBR. . PBR builds on top of `d2to1` to provide for declarative configuration. It then filters the `setup.cfg` data through a setup hook to fill in default values and provide more sensible behaviors. . This package provides support for Python 2.x."	BSD-2-Clause BSD-3-Clause Apache-2.0			
python-jsonschema	python-jsonschema	"An(other) implementation of JSON Schema (Draft 3) for Python JSON Schema is a specification for a JSON-based format for defining the structure of JSON data. JSON Schema provides a contract for what JSON data is required for a given application and how it can be modified much like what XML Schema provides for XML. JSON Schema is intended to provide validation documentation and interaction control of JSON data. . This package contains the Python 2.x module."	GPL-2.0+ GPL-2.0 MIT			
python3-ecdsa	python-ecdsa	"ECDSA cryptographic signature library (Python 3) This is an easy-to-use implementation of ECDSA cryptography (Elliptic Curve Digital Signature Algorithm) implemented purely in Python. With this library you can quickly create keypairs (signing key and verifying key) sign messages and verify the signatures. The keys and signatures are very short making them easy to handle and incorporate into other protocols. . This package contains the module for Python 3."	Public Domain			

Package name	Source	Package Description	Package License	Encryption types	Encryption Max Key Length	Comment
python-oslotest	python-oslotest	"OpenStack test framework - Python 2.x OpenStack test framework that provides base classes and fixtures for creating unit and functional tests. . This package contains the Python 2.x module."	Apache-2.0			
python-openvswitch	openvswitch	"Python bindings for Open vSwitch Open vSwitch is a production quality multilayer software-based Ethernet virtual switch. It is designed to enable massive network automation through programmatic extension while still supporting standard management interfaces and protocols (e.g. NetFlow IPFIX sFlow SPAN RSPAN CLI LACP 802.1ag). In addition it is designed to support distribution across multiple physical servers similar to VMware's vNetwork distributed vswitch or Cisco's Nexus 1000V. . This package contains the full Python bindings for Open vSwitch database."	GPL-2.0 LGPL-2.1 BSD-2-Clause Apache-2.0	lex	128	
python-openvswitch	openvswitch	"Python bindings for Open vSwitch Open vSwitch is a production quality multilayer software-based Ethernet virtual switch. It is designed to enable massive network automation through programmatic extension while still supporting standard management interfaces and protocols (e.g. NetFlow IPFIX sFlow SPAN RSPAN CLI LACP 802.1ag). In addition it is designed to support distribution across multiple physical servers similar to VMware's vNetwork distributed vswitch or Cisco's Nexus 1000V. . This package contains the full Python bindings for Open vSwitch database."	GPL-2.0 LGPL-2.1 BSD-2-Clause Apache-2.0	crypt	65	
python-openvswitch	openvswitch	"Python bindings for Open vSwitch Open vSwitch is a production quality multilayer software-based Ethernet virtual switch. It is designed to enable massive network automation through programmatic extension while still supporting standard management interfaces and protocols (e.g. NetFlow IPFIX sFlow SPAN RSPAN CLI LACP 802.1ag). In addition it is designed to support distribution across multiple physical servers similar to VMware's vNetwork distributed vswitch or Cisco's Nexus 1000V. . This package contains the full Python bindings for Open vSwitch database."	GPL-2.0 LGPL-2.1 BSD-2-Clause Apache-2.0	aes	256	
python-openvswitch	openvswitch	"Python bindings for Open vSwitch Open vSwitch is a production quality multilayer software-based Ethernet virtual switch. It is designed to enable massive network automation through programmatic extension while still supporting standard management interfaces and protocols (e.g. NetFlow IPFIX sFlow SPAN RSPAN CLI LACP 802.1ag). In addition it is designed to support distribution across multiple physical servers similar to VMware's vNetwork distributed vswitch or Cisco's Nexus 1000V. . This package contains the full Python bindings for Open vSwitch database."	GPL-2.0 LGPL-2.1 BSD-2-Clause Apache-2.0	sha	512	
python-openvswitch	openvswitch	"Python bindings for Open vSwitch Open vSwitch is a production quality multilayer software-based Ethernet virtual switch. It is designed to enable massive network automation through programmatic extension while still supporting standard management interfaces and protocols (e.g. NetFlow IPFIX sFlow SPAN RSPAN CLI LACP 802.1ag). In addition it is designed to support distribution across multiple physical servers similar to VMware's vNetwork distributed vswitch or Cisco's Nexus 1000V. . This package contains the full Python bindings for Open vSwitch database."	GPL-2.0 LGPL-2.1 BSD-2-Clause Apache-2.0	md5	128	

Package name	Source	Package Description	Package License	Encryption types	Encryption Max Key Length	Comment
python-rtslib-fb-doc	python-rtslib-fb	"object API for managing the Linux LIO kernel target - doc The rtlib-fb package is an object-based Python library for configuring the LIO generic SCSI target present in 3.x Linux kernel versions. . The rtlib-fb package is a fork of the "rtlib" code written by RisingTide Systems. The "-fb" differentiates between the original and this version. Ensure to use either all "fb" versions of the targetcli components -- targetcli rtlib and configshell or stick with all non-fb versions since they are no longer strictly compatible. . This package contains the documentation."	Apache-2.0			
python-gridfs	pymongo	"Python implementation of GridFS for MongoDB GridFS is a storage specification for large objects in MongoDB. The Python gridfs module is an implementation based on the pymongo module. It provides a file-like interface."	MIT Apache-2.0			
sahara	sahara	"OpenStack data processing cluster as a service - API & Engine The Sahara project provides a simple means to provision a data-intensive application cluster (Hadoop or Spark) on top of OpenStack. It's the ex Savanna project renamed due to potential trademark issues. . This metapackage depends on the API server and the engine daemon."	Apache-2.0			
python3-oslo.versionedobjects	python-oslo.versionedobjects	"deals with DB schema versions and code expectations - Python 3.x oslo.versionedobjects library deals with DB schema being at different versions than the code expects allowing services to be operated safely during upgrades. It enables DB independent schema by providing an abstraction layer which allows one to support SQL and NoSQL Databases. oslo.versionedobjects is also used in RPC APIs to ensure upgrades happen without spreading version dependent code across different services and projects. . This package contains the Python 3.x module."	Apache-2.0			
python3-ironic-lib	python-ironic-lib	"common library used by various Ironic projects - Python 3.x A common library to be used by various projects in the Ironic ecosystem. . Ironic provision bare metal machines instead of virtual machines. It is a fork of the Nova Baremetal driver. It is best thought of as a bare metal hypervisor API and a set of plugins which interact with the bare metal hypervisors. By default it will use PXE and IPMI in concert to provision and turn on/off machines but Ironic also supports vendor-specific plugins which may implement additional functionality. . This package provides the Python 3.x module."	Apache-2.0			
python-osprofiler	python-osprofiler	"OpenStack Profiler Library - Python 2.x OpenStack consists of multiple projects. Each project in turn is composed of multiple services. To process some request e.g. to boot a virtual machine OpenStack uses multiple services from different projects. In the case somethin works too slowly it's extremely complicated to understand what exactly goes wrong and to locate the bottleneck. . To resolve this issue a tiny but powerful library osprofiler has been interoduced and can be used by all OpenStack projects and their Python clients. To be able to generate one trace per request that goes through all involved services and builds a tree of calls (see an example <a href="http://pavlovic.me/rally/profiler/">http://pavlovic.me/rally/profiler/</a> ). . This package contains the Python 2.x module."	Apache-2.0			



Package name	Source	Package Description	Package License	Encryption types	Encryption Max Key Length	Comment
nodeenv	nodeenv	"Node.js virtual environment builder Tool to create isolated node.js environments with their own installation directories that don't share libraries with other node.js virtual environments similar to a Python virtualenv. . These environments can be integrated with ones created by Python's virtualenv."	BSD-3-Clause			
python-oslo-middleware-doc	python-oslo.middleware	"transitional dummy package for python-oslo-middleware-doc This transitional package to python-oslo.middleware-doc is safe to remove."	Apache-2.0			
python3-kombu	kombu	"AMQP Messaging Framework for Python (Python3 version) The aim of Kombu is to make messaging in Python as easy as possible by providing an idiomatic high-level interface for the AMQP protocol. It is meant to replace the carrot library by providing a compatibility layer. . Features: * Allows application authors to support several message server solutions by using pluggable transports. * Supports automatic encoding serialization and compression of message payloads. * The ability to ensure that an operation is performed by gracefully handling connection and channel errors. . This package contains the Python 3 version of the library."	Unknown			
python-six	six	"Python 2 and 3 compatibility library (Python 2 interface) Six is a Python 2 and 3 compatibility library. It provides utility functions for smoothing over the differences between the Python versions with the goal of writing Python code that is compatible on both Python versions. . This package provides Six on the Python 2 module path. It is complemented by python3-six."	Unknown			
vim-puppet	puppet	"syntax highlighting for puppet manifests in vim The vim-puppet package provides filetype detection and syntax highlighting for puppet manifests (files ending with ".pp"). . As per the Debian vim policy installed addons are not activated automatically but the "vim-addon-manager" tool can be used for this purpose."	GPL-2.0+ GPL-2.0 BSD-3-Clause MIT Public Domain Apache-2.0			
python-lockfile-doc	python-lockfile	"file locking library for Python ? documentation The ?lockfile? library exports a ?LockFile? class which provides a simple API for locking files. . This package installs the API documentation in plain text and rendered as HTML."	Unknown			
python-aioreventlet	python-aioreventlet	"asyncio event loop scheduling callbacks in eventlet - Python 2.x aioeventlet implements the asyncio API (PEP 3156) on top of eventlet. It makes possible to write asyncio code in a project currently written for eventlet. . aioeventlet allows one to use greenthreads in asyncio coroutines and to use asyncio coroutines tasks and futures in greenthreads: see link_future() and wrap_greenthread() functions. . The main visible difference between aioeventlet and trollius is the behaviour of run_forever(): run_forever() blocks with trollius whereas it runs in a greenthread with aioeventlet. It means that aioeventlet event loop can run in an greenthread while the Python main thread runs other greenthreads in parallel. . This package contains the Python 2.x module."	Apache-2.0			

Package name	Source	Package Description	Package License	Encryption types	Encryption Max Key Length	Comment
python-migrate-doc	migrate	"Database schema migration for SQLAlchemy - doc Inspired by Ruby on Rails' migrations migrate provides a way to deal with database schema changes in SQLAlchemy projects. . SQLAlchemy-migrate is build on top of SQLAlchemy and provides a changeset and a versioning API for database schemas as well as a script utilizing these APIs. The database change sets are managed in a file based repository allowing upgrades and downgrades of database schema versions. The change sets may consist of Python code facilitating the changeset API or SQL scripts. . SQLAlchemy-migrate has support for MySQL PostgreSQL SQLite and Oracle databases. The support for Oracle is not as well tested as the support for the other database systems. . This package contains the documentation."	GPL-2.0 MIT Apache-2.0			
python-editor	python-editor	"programmatically open an editor capture the result - Python 2.7 python-editor is a library that provides the editor module for programmatically interfacing with your system's \$EDITOR. The user can then enter a commit message for example. . Editor first looks for the environment variable. If set it uses the value as-is without fallbacks. If no \$EDITOR is set editor will search through a list of known editors and use the first one that exists on the system. For example on Linux editor will look for the following editors in order: * vim * emacs * nano . When calling the edit() function editor will open the editor in a subprocess inheriting the parent process's stdin stdout . This package contains the Python 2.7 module."	Apache-2.0			
python-pecan-doc	python-pecan	"WSGI object-dispatching web framework The Pecan Python module is a WSGI object-dispatching web framework designed to be lean and fast with few dependencies. Pecan comes bundled with a lightweight WSGI development server based on Python's wsgiref.simpleserver. Pecan applications also come with an interactive Python shell which can be used to execute expressions in an environment very similar to the one your application runs in (using the "pecan shell" command). . WSGI is the "Web Server Gateway Interface". It defines a simple and universal interface between web servers and web applications or frameworks for the Python programming language. . This package contains the pecan documentation."	GPL-2.0 BSD-3-Clause MIT			
python-os-apply-config	python-os-apply-config	"Creates config files out of cloud metadata os-apply-config apply configuration out of the cloud metadata (JSON) that it recieves from a metadata server. . It turns metadata from one or more JSON files like this: . {"keystone": {"database": {"host": "127.0.0.1" "user": "keystone" "password": "foobar"} } } . into service config files like this: . [sql] connection = mysql://keystone:foobar@127.0.0.1/keystone"	Apache-2.0			
fuel-rabbit-fence	fuel-library9.0	"Fuel RabbitMQ fencing utilitites"	unknown			
python3-q-text-as-data	q-text-as-data	"performs SQL-like statements on tabular text data - Python 3.x Q is a command line tool that allows direct execution of SQL-like queries on CSVs/TSVs (and any other tabular text files). Q treats ordinary files as database tables and supports all SQL constructs such as WHERE GROUP BY JOINs etc. It supports automatic column name and column type detection and provides full support for multiple encodings. . This package provides the Python 3 version."	GPL-3.0			

Package name	Source	Package Description	Package License	Encryption types	Encryption Max Key Length	Comment
erlang-src	erlang	"Erlang/OTP applications sources Erlang sources for all the applications in the Erlang/OTP system. They are useful for educational purpose and as a base for creating embedded systems."	LGPL-2.1 Apache-2.0	aes	256	
erlang-src	erlang	"Erlang/OTP applications sources Erlang sources for all the applications in the Erlang/OTP system. They are useful for educational purpose and as a base for creating embedded systems."	LGPL-2.1 Apache-2.0	diffiehellman	unlimited	
erlang-src	erlang	"Erlang/OTP applications sources Erlang sources for all the applications in the Erlang/OTP system. They are useful for educational purpose and as a base for creating embedded systems."	LGPL-2.1 Apache-2.0	blowfish	448	
erlang-src	erlang	"Erlang/OTP applications sources Erlang sources for all the applications in the Erlang/OTP system. They are useful for educational purpose and as a base for creating embedded systems."	LGPL-2.1 Apache-2.0	sha	512	
erlang-src	erlang	"Erlang/OTP applications sources Erlang sources for all the applications in the Erlang/OTP system. They are useful for educational purpose and as a base for creating embedded systems."	LGPL-2.1 Apache-2.0	hmac	160	
erlang-src	erlang	"Erlang/OTP applications sources Erlang sources for all the applications in the Erlang/OTP system. They are useful for educational purpose and as a base for creating embedded systems."	LGPL-2.1 Apache-2.0	md5	128	
python-murano-dashboard	murano-dashboard	"cloud-ready application catalog - dashboard plugin Murano Project introduces an application catalog which allows application developers and cloud administrators to publish various cloud-ready applications in a browsable categorised catalog which may be used by the cloud users (including the inexperienced ones) to pick-up the needed applications and services and composes the reliable environments out of them in a "push-the-button" manner. . This package contains the OpenStack dashboard plugin."	GPL-3.0 Apache-2.0			
python-oslo.log-doc	python-oslo.log	"OpenStack logging configuration library - doc OpenStack logging configuration library provides standardized configuration for all openstack projects. It also provides custom formatters handlers and support for context specific logging (like resource id's etc). . This package contains the documentation."	Apache-2.0			
python-netaddr-docs	python-netaddr	"manipulation of various common network address notations (documentation) netaddr is a Python library for the manipulation of various common network address notations and representations. . It takes the hassle out of fiddling with enumerable variations of network addresses presenting a consistent extensible easy-to-use and (above all) Pythonic API. . This package contains the documentation."	BSD			
neutron-plugin-nec-agent	neutron	"OpenStack virtual network service - NEC agent Neutron provides an API to dynamically request and configure virtual networks. These networks connect "interfaces" from other OpenStack services (such as vNICs from Nova VMs). The Neutron API supports extensions to provide advanced network capabilities including QoS ACLs and network monitoring. . This package provides the NEC plugin agent."	Apache-2.0			
libvirt-sanlock	libvirt	"library for interfacing with different virtualization systems Libvirt is a C toolkit to interact with the virtualization capabilities of recent versions of Linux (and other OSes). The library aims at providing a long term stable C API for different virtualization mechanisms. It currently supports QEMU KVM XEN OpenVZ LXC and VirtualBox. . This package contains the sanlock plugin."	GPL-2.0 GPL-3.0 LGPL-3.0 MIT	sha	512	

Package name	Source	Package Description	Package License	Encryption types	Encryption Max Key Length	Comment
libvirt-sanlock	libvirt	"library for interfacing with different virtualization systems Libvirt is a C toolkit to interact with the virtualization capabilities of recent versions of Linux (and other OSes). The library aims at providing a long term stable C API for different virtualization mechanisms. It currently supports QEMU KVM XEN OpenVZ LXC and VirtualBox. . This package contains the sanlock plugin."	GPL-2.0 GPL-3.0 LGPL-3.0 MIT	md5	128	
libcrmcommon3	pacemaker	"cluster resource manager common library At its core Pacemaker is a distributed finite state machine capable of co-ordinating the startup and recovery of inter-related services across a set of machines. . Pacemaker understands many different resource types (OCF SYSV systemd) and can accurately model the relationships between them (colocation ordering). . It can even use technology such as Docker to automatically isolate the resources managed by the cluster. . This package contains the common library."	GPL-2.0+ GPL-2.0 LGPL-2.1	md5	128	
neutron-metadata-agent	neutron	"OpenStack virtual network service - metadata agent Neutron provides an API to dynamically request and configure virtual networks. These networks connect "interfaces" from other OpenStack services (such as vNICs from Nova VMs). The Neutron API supports extensions to provide advanced network capabilities including QoS ACLs and network monitoring. . This package provides the metadata proxy agent."	Apache-2.0			
python3-pil-dbg	pillow	"Python Imaging Library (Python3 debug extension) The Python Imaging Library (PIL) adds an image object to your Python interpreter. You can load images from a variety of file formats and apply a rich set of image operations to them. . This package contains the extension built for the Python debug interpreter."	unknown			
pep8	pep8	"Python PEP 8 code style checker - python2 Features a plugin architecture allowing for adding new checks is easily. Parseable output listing line numbers of the error location. Consists of just one Python file and requires only stdlib."	GPL-3.0			
python-scciclient	python-scciclient	"Python ServerView Common Command Interface (SCCI) Client Library - Python 2.x This package provides the Python ServerView Common Command Interface (SCCI) Client Library which support FUJITSU iRMC S4 integrated Remote Management Controller. This Python module may be helpful if you want to use Ironic to manage a FUJITSU server that has this hardware. . This package contains the Python 2.x module."	Apache-2.0			
python-cinderclient	python-cinderclient	"Python bindings to the OpenStack Volume API - Python 2.x Cinder is a block storage as service system for the Openstack cloud computing software suite. It is a direct replacement for nova-volume as a separate project. Cinder users LVM partitions of your volume servers in order to provide iSCSI permanent block storage devices for your virtual machines running on Nova. . This package contains the a client for the OpenStack Volume API. There's a Python API (the "cinderclient" module) and a command-line script ("cinder"). Each implements 100% of the OpenStack Volume API. . This package provides the Python 2.x module."	GPL-2.0+ GPL-2.0 Apache-2.0			
python-restructuredtext-lint	restructuredtext-lint	"restructured text linter for Python 2.x . This package provides the Python 2.x module."	Public Domain			

Package name	Source	Package Description	Package License	Encryption types	Encryption Max Key Length	Comment
python-demjson	python-demjson	"encoder decoder and lint/validator for JSON in Python demjson is a comprehensive Python language binding to the JSON language-independent data encoding standard which is often used as a simpler substitute for XML in AJAX-based web applications."	Unknown			
python-rsa	python-rsa	"Pure-Python RSA implementation (Python 2) Python-RSA is a pure-Python RSA implementation. It supports encryption and decryption signing and verifying signatures and key generation according to PKCS#1 version 1.5. It can be used as a Python library as well as on the commandline. The code was mostly written by Sybren A. St?vel. . This package contains the module for Python 2."	Apache-2.0	rsa	unlimited	typically <=8192
python-xstatic-angular-gettext	python-xstatic-angular-gettext	"Angular-Gettext (XStatic packaging standard) - Python 2.7 XStatic is a Python web development tool for handling required static data files from external projects such as CSS images and JavaScript. It provides a lightweight infrastructure to manage them via Python modules that your app can depend on in a portable virtualenv-friendly way instead of using embedded copies. . This package contains the Python 2.7 module support for Angular-Gettext."	Unknown			
python-openstacksdk	python-openstacksdk	"SDK for building applications to work with OpenStack - Python 2.x The python-openstacksdk is a collection of libraries for building applications to work with OpenStack clouds. The project aims to provide a consistent and complete set of interactions with OpenStack's many services along with complete documentation examples and tools. . This SDK is under active development and in the interests of providing a high-quality interface the APIs provided in this release may differ from those provided in future release. . This package contains the Python 2.x module."	Apache-2.0			
python-zaqarclient	python-zaqarclient	"OpenStack Zaqar Queueing API client and library - Python 2.x Zaqar is a multi-tenant cloud messaging service for web developers. It combines the ideas pioneered by Amazon's SQS product with additional semantics to support event broadcasting. . The service features a fully RESTful API which developers can use to send messages between various components of their SaaS and mobile applications by using a variety of communication patterns. Underlying this API is an efficient messaging engine designed with scalability and security in mind. . Other OpenStack components can integrate with Zaqar to surface events to end users and to communicate with guest agents that run in the "over-cloud" layer. Cloud operators can leverage Zaqar to provide equivalents of SQS and SNS to their customers. . By installing python-zaqarclient you get programmatic access to the Zaqar v1.0 API library. Plus it installs a plugin to python-openstackclient that allows you to perform simple queue operations. . This package contains the Python 2.x module."	Apache-2.0			
pacemaker-resource-agents	pacemaker	"cluster resource manager general resource agents At its core Pacemaker is a distributed finite state machine capable of co-ordinating the startup and recovery of inter-related services across a set of machines. . Pacemaker understands many different resource types (OCF SYSV systemd) and can accurately model the relationships between them (colocation ordering). . It can even use technology such as Docker to automatically isolate the resources managed by the cluster. . This package contains Pacemaker resource agents not requiring access to the cluster stack thus also usable by the remote daemon."	GPL-2.0+ GPL-2.0 LGPL-2.1	md5	128	

Package name	Source	Package Description	Package License	Encryption types	Encryption Max Key Length	Comment
python-oslo.utils-doc	python-oslo.utils	"Oslo Utility library - doc The Oslo.utils package provides a set of function which are cross-project for OpenStack. For example it provides text decoding exception handling Python module import facility (try_import function) network-related system-level and time utilities and helper functions. . This package contains the documentation."	Apache-2.0			
python-qpid-proton	qpid-proton	"language bindings for Qpid Proton messaging framework - Python 2.7. Qpid Proton is a high-performance lightweight messaging library. It can be used in the widest range of messaging applications including brokers client libraries routers bridges proxies and more. Proton makes it trivial to integrate with the AMQP 1.0 ecosystem from any platform environment or language. . This package provides Python 2.7 language bindings for Qpid Proton."	GPL-2.0+ GPL-2.0 BSD-3-Clause Apache-2.0			
python-os-win	python-os-win	"Windows / Hyper-V library for OpenStack projects - Python 2.7 Os-win is a library that contains Windows / Hyper-V code commonly used in the OpenStack projects: nova cinder networking-hyperv. The library can be used in any other OpenStack projects where it is needed. . This package contains the Python 2.7 module."	Apache-2.0			
python-oslo.concurrency	python-oslo.concurrency	"concurrency and locks for OpenStack projects - Python 2.x The oslo.concurrency library provides solutions for managing concurrency and locks within OpenStack projects. . This package contains the Python 2.x module."	Apache-2.0			
python-oslo-versionedobjects-doc	python-oslo.versionedobjects	"transitional dummy package for python-oslo-versionedobjects-doc This transitional package to python-oslo.versionedobjects-doc is safe to remove."	Apache-2.0			
ironic-fa-deploy	fuel-agent	"Ironic-fa-deploy package"	Apache-2.0			
erlang-x11	erlang	"Erlang/OTP applications that require X Window System This package is a dummy package which will install all Erlang/OTP applications which use graphical interface and therefore require X Window System to run."	LGPL-2.1 Apache-2.0	aes	256	
erlang-x11	erlang	"Erlang/OTP applications that require X Window System This package is a dummy package which will install all Erlang/OTP applications which use graphical interface and therefore require X Window System to run."	LGPL-2.1 Apache-2.0	diffiehellman	unlimited	
erlang-x11	erlang	"Erlang/OTP applications that require X Window System This package is a dummy package which will install all Erlang/OTP applications which use graphical interface and therefore require X Window System to run."	LGPL-2.1 Apache-2.0	blowfish	448	
erlang-x11	erlang	"Erlang/OTP applications that require X Window System This package is a dummy package which will install all Erlang/OTP applications which use graphical interface and therefore require X Window System to run."	LGPL-2.1 Apache-2.0	sha	512	
erlang-x11	erlang	"Erlang/OTP applications that require X Window System This package is a dummy package which will install all Erlang/OTP applications which use graphical interface and therefore require X Window System to run."	LGPL-2.1 Apache-2.0	hmac	160	
erlang-x11	erlang	"Erlang/OTP applications that require X Window System This package is a dummy package which will install all Erlang/OTP applications which use graphical interface and therefore require X Window System to run."	LGPL-2.1 Apache-2.0	md5	128	
python-oslo.context	python-oslo.context	"WSGI context helpers for OpenStack - Python 2.x The Oslo context library has helpers to maintain useful information about a request context. The request context is usually populated in the WSGI pipeline and used by various modules such as logging. . This package contains the Python 2.x module."	Apache-2.0			

Package name	Source	Package Description	Package License	Encryption types	Encryption Max Key Length	Comment
python-ldap3	python-ldap3	"Pure Python LDAP client library A pure Python 3 LDAP version 3 strictly conforming to RFC4511 released under the LGPL v3 open source license. RFC4511 is the current LDAP specification (June 2006) from IETF and obsoletes the previous LDAP RFCs 2251 2830 3771 (December 1997) . This package contains the Python 2.7 version of the library."	Unknown			
python-future	python-future	"single-source support for Python 3 and 2 - Python 2.x Future is the missing compatibility layer between Python 2 and Python 3. It allows one to use a single clean Python 3.x-compatible codebase to support both Python 2 and Python 3 with minimal overhead. . The imports have no effect on Python 3. On Python 2 they shadow the corresponding builtins which normally have different semantics on Python 3 versus 2 to provide their Python 3 semantics. . This package contains the Python 2.x module."	BSD-2-Clause BSD-3-Clause Public Domain Apache-2.0			
python-bashate-doc	python-bashate	"bash script style guide checker - doc This program attempts to be an automated style checker for bash scripts to fill the same part of code review that pep8 does in most OpenStack projects. It started from humble beginnings in the DevStack project and will continue to evolve over time. . This package contains the documentation."	Apache-2.0			
python-django-sekizai-doc	django-sekizai	"template blocks for Django projects (Documentation) Sekizai means ?blocks? in Japanese and that?s what this app provides. A fresh look at blocks. With django-sekizai you can define placeholders where your blocks get rendered and at different places in your templates append to those blocks. This is especially useful for css and javascript. Your subtemplates can now define css and javascript files to be included and the css will be nicely put at the top and the javascript to the bottom just like you should. Also sekizai will ignore any duplicate content in a single block. . This package contains the documentation."	BSD-3-Clause			
python3-oslo.serialization	python-oslo.serialization	"utilities for serialization especially JSON - Python 3.x The oslo.serialization library contain utilities for working with serialization features especially working with JSON. . This package contains the Python 3.x module."	Apache-2.0			
libjs-jsencrypt	libjs-jsencrypt	"RSA Encryption in JavaScript JSEncrypt provides a simple wrapper around the fantastic work done by Tom Wu for RSA Encryption in JavaScript (ie: the jsbn Javascript library). JSEncrypt works hand-in-hand with openssl. . With JSEncrypt you can generate private and public keypairs then use them to encrypt and decrypt."	Unknown			
sphinx-common	sphinx	"documentation generator for Python projects - common data Sphinx is a tool for producing documentation for Python projects using reStructuredText as markup language. . This package includes manual pages templates translations and other data files."	MIT Public Domain			

Package name	Source	Package Description	Package License	Encryption types	Encryption Max Key Length	Comment
python-coffin	python-coffin	"Jinja2 adapter for Django - Python 2.x Coffin is a Jinja2 adapter for Django. Coffin currently makes the following Django tags available in Jinja: * {% cache %} - has currently an incompatibility: The second argument (the fragment name) needs to be specified with surrounding quotes if it is supposed to be a literal string according to Jinja2 syntax. It will otherwise be considered an identifier and resolved as a variable. * {% load %} - is actually a no-op in Coffin since templatetag libraries are always loaded. See also "Custom Filters and extensions". * {% spaceless %} * {% url %} - additionally a view url() filter is also available. Or use view url() for Django 1.5 style lookups by the value of view. * {% with %} * {% csrf_token %} . Django filters that are ported in Coffin: * date * floatformat * pluralize (expects an optional second parameter rather than the comma syntax) * time * timesince * timeuntil * truncatewords * truncatewords_html . This package contains the Python 2.x module."	BSD-3-Clause			
python-openstackdocstheme-doc	python-openstackdocstheme	"extension support for Sphinx OpenStack doc - doc Theme and extension support for Sphinx documentation that is published to docs.openstack.org. Intended for use by OpenStack projects. . This package contains the documentation."	Apache-2.0			
libcppunit-subunit0	subunit	"SubunitTestProgressListener for CPPUnit - C++ shared library subunit is a protocol for test activity reporting. The SubunitTestProgressListener permits outputting Subunit from a CPPUnit test suite."	BSD-3-Clause Apache-2.0			
python-django-classy-tags	django-classy-tags	"Class based template tags for Django projects django-classy-tags is an approach at making writing template tags in Django easier shorter and more fun. It provides an extensible argument parser which reduces most of the boiler plate code you usually have to write when coding custom template tags. . django-classy-tags does no magic by design. Thus you will not get automatic registering/loading of your tags like other solutions provide. You will not get automatic argument guessing from function signatures but rather you have to declare what arguments your tag accepts. There is no magic in your template tag class either it?s just a subclass of django.template.Node which invokes a parser class to parse the arguments when it?s initialized and resolves those arguments into keyword arguments in it?s render method and calls its render_tag method with those keyword arguments."	BSD-3-Clause			
libcmap4	corosync	"Standards-based cluster framework Cmap library Corosync is a project to implement a production quality "Revised BSD" licensed implementation of all core functionalities required by openais. The project implements cutting edge research on virtual synchrony to provide 100% correct operation in the face of failures or partitionable networks with excellent performance characteristics. . The Application Interface Specification is a software API and policies which are used to develop applications that maintain service during faults. . This package contains the Cmap library which is a library included in Corosync."	Public Domain			
python-oslo.messaging	python-oslo.messaging	"oslo messaging library - Python 2.x The oslo.messaging API supports RPC and notifications over a number of different messaging transports. . Oslo is a set of libraries developed for OpenStack. . This package provides the Python 2.x module."	Apache-2.0			



Package name	Source	Package Description	Package License	Encryption types	Encryption Max Key Length	Comment
openvswitch-testcontroller	openvswitch	"Open vSwitch test controller implementation Open vSwitch is a production quality multilayer software-based Ethernet virtual switch. It is designed to enable massive network automation through programmatic extension while still supporting standard management interfaces and protocols (e.g. NetFlow IPFIX sFlow SPAN RSPAN CLI LACP 802.1ag). In addition it is designed to support distribution across multiple physical servers similar to VMware's vNetwork distributed vswitch or Cisco's Nexus 1000V. . The Open vSwitch controller enables OpenFlow switches that connect to it to act as MAC-learning Ethernet switches. Note that the test controller should be used for testing purposes only."	GPL-2.0 LGPL-2.1 BSD-2-Clause Apache-2.0	lex	128	
openvswitch-testcontroller	openvswitch	"Open vSwitch test controller implementation Open vSwitch is a production quality multilayer software-based Ethernet virtual switch. It is designed to enable massive network automation through programmatic extension while still supporting standard management interfaces and protocols (e.g. NetFlow IPFIX sFlow SPAN RSPAN CLI LACP 802.1ag). In addition it is designed to support distribution across multiple physical servers similar to VMware's vNetwork distributed vswitch or Cisco's Nexus 1000V. . The Open vSwitch controller enables OpenFlow switches that connect to it to act as MAC-learning Ethernet switches. Note that the test controller should be used for testing purposes only."	GPL-2.0 LGPL-2.1 BSD-2-Clause Apache-2.0	crypt	65	
openvswitch-testcontroller	openvswitch	"Open vSwitch test controller implementation Open vSwitch is a production quality multilayer software-based Ethernet virtual switch. It is designed to enable massive network automation through programmatic extension while still supporting standard management interfaces and protocols (e.g. NetFlow IPFIX sFlow SPAN RSPAN CLI LACP 802.1ag). In addition it is designed to support distribution across multiple physical servers similar to VMware's vNetwork distributed vswitch or Cisco's Nexus 1000V. . The Open vSwitch controller enables OpenFlow switches that connect to it to act as MAC-learning Ethernet switches. Note that the test controller should be used for testing purposes only."	GPL-2.0 LGPL-2.1 BSD-2-Clause Apache-2.0	aes	256	
openvswitch-testcontroller	openvswitch	"Open vSwitch test controller implementation Open vSwitch is a production quality multilayer software-based Ethernet virtual switch. It is designed to enable massive network automation through programmatic extension while still supporting standard management interfaces and protocols (e.g. NetFlow IPFIX sFlow SPAN RSPAN CLI LACP 802.1ag). In addition it is designed to support distribution across multiple physical servers similar to VMware's vNetwork distributed vswitch or Cisco's Nexus 1000V. . The Open vSwitch controller enables OpenFlow switches that connect to it to act as MAC-learning Ethernet switches. Note that the test controller should be used for testing purposes only."	GPL-2.0 LGPL-2.1 BSD-2-Clause Apache-2.0	sha	512	

Package name	Source	Package Description	Package License	Encryption types	Encryption Max Key Length	Comment
openvswitch-testcontroller	openvswitch	"Open vSwitch test controller implementation Open vSwitch is a production quality multilayer software-based Ethernet virtual switch. It is designed to enable massive network automation through programmatic extension while still supporting standard management interfaces and protocols (e.g. NetFlow IPFIX sFlow SPAN RSPAN CLI LACP 802.1ag). In addition it is designed to support distribution across multiple physical servers similar to VMware's vNetwork distributed vswitch or Cisco's Nexus 1000V. . The Open vSwitch controller enables OpenFlow switches that connect to it to act as MAC-learning Ethernet switches. Note that the test controller should be used for testing purposes only."	GPL-2.0 LGPL-2.1 BSD-2-Clause Apache-2.0	md5	128	
python-oslo.concurrency-doc	python-oslo.concurrency	"oslo.concurrency library - doc The oslo.concurrency library provides solutions for managing concurrency and locks within OpenStack projects. . This package contains the documentation."	Apache-2.0			
mistral-common	mistral	"OpenStack Workflow service - common files Mistral is a workflow service. Most business processes consist of multiple distinct interconnected steps that need to be executed in a particular order in a distributed environment. One can describe such process as a set of tasks and task relations and upload such description to Mistral so that it takes care of state management correct execution order parallelism synchronization and high availability. Mistral also provides flexible task scheduling so that it can run a process according to a specified schedule (i.e. every Sunday at 4.00pm) instead of running it immediately. Such set of tasks and relations between them is called a workflow. . This package contains common files and configuration."	Apache-2.0			
erlang-dev	erlang	"Erlang/OTP development libraries and headers The files for application development in Erlang. They include headers for all applications included into Erlang/OTP distribution and C interface libraries."	LGPL-2.1 Apache-2.0	aes	256	
erlang-dev	erlang	"Erlang/OTP development libraries and headers The files for application development in Erlang. They include headers for all applications included into Erlang/OTP distribution and C interface libraries."	LGPL-2.1 Apache-2.0	diffiehellman	unlimited	
erlang-dev	erlang	"Erlang/OTP development libraries and headers The files for application development in Erlang. They include headers for all applications included into Erlang/OTP distribution and C interface libraries."	LGPL-2.1 Apache-2.0	blowfish	448	
erlang-dev	erlang	"Erlang/OTP development libraries and headers The files for application development in Erlang. They include headers for all applications included into Erlang/OTP distribution and C interface libraries."	LGPL-2.1 Apache-2.0	sha	512	
erlang-dev	erlang	"Erlang/OTP development libraries and headers The files for application development in Erlang. They include headers for all applications included into Erlang/OTP distribution and C interface libraries."	LGPL-2.1 Apache-2.0	hmac	160	
erlang-dev	erlang	"Erlang/OTP development libraries and headers The files for application development in Erlang. They include headers for all applications included into Erlang/OTP distribution and C interface libraries."	LGPL-2.1 Apache-2.0	md5	128	
python3-pil.imagetk-dbg	pillow	"Python Imaging Library - ImageTk Module (Python3 debug extension) Tk dependent python-pil module. . This package contains the extension built for the Python debug interpreter."	unknown			

Package name	Source	Package Description	Package License	Encryption types	Encryption Max Key Length	Comment
nova-network	nova	"OpenStack Compute - network manager OpenStack is a reliable cloud infrastructure. Its mission is to produce the ubiquitous cloud computing platform that will meet the needs of public and private cloud providers regardless of size by being simple to implement and massively scalable. . OpenStack Compute codenamed Nova is a cloud computing fabric controller designed to be modular and easy to extend and adapt. In addition to its "native" OpenStack API it also supports the Amazon EC2 API and it supports many different database backends (including SQLite MySQL and PostgreSQL) hypervisors (KVM Xen) and user directory systems (LDAP SQL). . This package equips a system to function as a network node. This service is responsible for managing floating and fixed IP addresses DHCP bridging and VLANs and in some cases acts as a gateway. Different networking strategies can be accessed by setting the network_manager flag to FlatManager FlatDHCPManager or VlanManager (the default)."	Apache-2.0			
python3-zzzeeksphinx	zzzeeksphinx	"Zzseek's Sphinx layout and utilities This layout is first and foremost pulled in for the SQLAlchemy documentation builds (and possibly other related projects) but is also usable as a standalone theme / utility set for any project. . Features include: . * uses Mako templates instead of Jinja for more programmatic capabilities inside of templates * layout includes an independently scrollable sidebar * unique (to Sphinx) ?contextual? sidebar contents that shows the current page in context with all sibling pages * modifications to autodoc which illustrate inherited classes bases method documentation illustrates if a method is only inherited from the base or overridden * ?dynamic base? feature that will under ReadTheDocs pull in optional .mako and .py files from the website of your choice that will serve as an alternate base template and a source of extra config setup respectively allowing the layout to be integrated into the layout of an external site when viewing on the web * ?viewsource? extension that can provide highlighted sourcecode to any Python file arbitrarily * SQLAlchemy-specific stuff like the [SQL] popups the dialect info directives * scss support using pycss"	Public Domain			
libcrmcluster-dev	pacemaker	"cluster resource manager cluster library development At its core Pacemaker is a distributed finite state machine capable of co-ordinating the startup and recovery of inter-related services across a set of machines. . Pacemaker understands many different resource types (OCF SYSV systemd) and can accurately model the relationships between them (colocation ordering). . It can even use technology such as Docker to automatically isolate the resources managed by the cluster. . This package contains the headers and other necessary files to build applications or libraries that use the cluster library."	GPL-2.0+ GPL-2.0 LGPL-2.1	md5	128	
python3-rednose	python-rednose	"coloured output for nosetests - Python 3.x rednose is a nosetests plugin for adding colour (and readability) to nosetest console results. Rednose by default uses auto-colouring which will only use colour if you're running it on a terminal (i.e not piping it to a file). . This package contains the Python 3.x module."	BSD-3-Clause			

Package name	Source	Package Description	Package License	Encryption types	Encryption Max Key Length	Comment
python-pil-doc	pillow	"Examples for the Python Imaging Library The Python Imaging Library (PIL) adds an image object to your Python interpreter. You can load image objects from a variety of file formats and apply a rich set of image operations to them. . This package contains PIL API documentation and some example scripts. You may also want to look at the python-pil-doc-html or python-pil-doc-pdf packages for the PIL handbook documentation."	Unknown			
python-django-common	python-django	"High-level Python web development framework (common) Django is a high-level web application framework that loosely follows the model-view-controller design pattern. . Python's equivalent to Ruby on Rails Django lets you build complex data-driven websites quickly and easily - Django focuses on automating as much as possible and adhering to the "Don't Repeat Yourself" (DRY) principle. . Django additionally emphasizes reusability and "pluggability" of components; many generic third-party "applications" are available to enhance projects or to simply to reduce development time even further. . This package contains files common to both Python 2.7 and Python 3."	BSD-2-Clause BSD-3-Clause Apache-2.0			
python-nose-parameterized	python-nose-parameterized	"decorator for parameterized testing with Nose - Python 2.x nose-parameterized is a decorator for parameterized testing of Python code with nose. . The provided decorators make it simple to pass lists iterables tuples or callables to the test functions. This allows you to separate the data from the test without having to subclass unittest.testcase. . This package contains the Python 2.x module."	BSD-2-Clause			
mysql-testsuite-5.6	mysql-wsrep-5.6	"MySQL 5.6 testsuite MySQL is a fast stable and true multi-user multi-threaded SQL database server. SQL (Structured Query Language) is the most popular database query language in the world. The main goals of MySQL are speed robustness and ease of use. . This package includes the MySQL testsuite."	GPL-2.0+ GPL-2.0 LGPL-2.0 BSD-3-Clause BSD MIT Public Domain ISC			
python-xstatic-angular-mock	python-xstatic-angular-mock	"Angular JS Mock XStatic support - Python 2.x XStatic is a packaging standard to package external (often 3rd party) static files as a Python package so they are easily usable on all operating systems with any package management system or even without one. . Many Python projects need to use some specific data files like javascript css java applets images etc. Sometimes these files belong to YOUR project (then you may want to package them separately but you could also just put them into your main package). But in many other cases those files are maintained by someone else (like jQuery javascript library or even much bigger js libraries or applications) and you definitely do not really want to merge them into your project. So you want to have static file packages but you don't want to get lots of stuff you do not want. Thus stuff required by XStatic file packages (especially the main toplevel XStatic package) tries to obey to be a MINIMAL no-fat thing. XStatic doesn't "sell" any web framework or other stuff you don't want. Maybe there will be optional XStatic extensions for all sorts of stuff but they won't be required if you just want the files. . By having static files in packages it is also easier to build virtual envs support linux/bsd/... distribution package maintainers and even windows installs using the same mechanism. . This package provides Angular JS Mock support as a Python 2.x module."	Unknown			

Package name	Source	Package Description	Package License	Encryption types	Encryption Max Key Length	Comment
nova-consoleproxy	nova	"OpenStack Compute - NoVNC proxy OpenStack is a reliable cloud infrastructure. Its mission is to produce the ubiquitous cloud computing platform that will meet the needs of public and private cloud providers regardless of size by being simple to implement and massively scalable. . OpenStack Compute codenamed Nova is a cloud computing fabric controller designed to be modular and easy to extend and adapt. In addition to its "native" OpenStack API it also supports the Amazon EC2 API and it supports many different database backends (including SQLite MySQL and PostgreSQL) hypervisors (KVM Xen) and user directory systems (LDAP SQL). . This package provides the proxy for the console in Nova: either the VNC proxy the SPICE HTML5 proxy or the XVP (Xen VNC Proxy) proxy. It is a publically reachable component which proxies access to the console running on compute nodes."	Apache-2.0			
python-oslo.config-doc	python-oslo.config	"Common code for Openstack Projects (configuration API) - doc The OpenStack Oslo project provides Python libraries containing infrastructure code shared by OpenStack projects. . The OpenStack Oslo Configuration API supports parsing command line arguments and .ini style configuration files. . This package provides the documentation."	Apache-2.0			
libcpkg-dev	corosync	"Standards-based cluster framework Cpg devel files Corosync is a project to implement a production quality "Revised BSD" licensed implementation of all core functionalities required by openais. The project implements cutting edge research on virtual synchrony to provide 100% correct operation in the face of failures or partitionable networks with excellent performance characteristics. . The Application Interface Specification is a software API and policies which are used to develop applications that maintain service during faults. . This package contains the devel files of Cpg a library which is part of Corosync."	Public Domain			
radosgw-dbg	ceph	"debugging symbols for radosgw RADOS is a distributed object store used by the Ceph distributed storage system. This package provides a REST gateway to the object store that aims to implement a superset of Amazon's S3 service. . This package contains debugging symbols for radosgw."	GPL-2.0+ GPL-2.0 GPL-3.0 LGPL-2.0 LGPL-2.1 BSD-2-Clause BSD-3-Clause Public Domain Apache-2.0	crush	unlimited	cephhash
radosgw-dbg	ceph	"debugging symbols for radosgw RADOS is a distributed object store used by the Ceph distributed storage system. This package provides a REST gateway to the object store that aims to implement a superset of Amazon's S3 service. . This package contains debugging symbols for radosgw."	GPL-2.0+ GPL-2.0 GPL-3.0 LGPL-2.0 LGPL-2.1 BSD-2-Clause BSD-3-Clause Public Domain Apache-2.0	sha	512	
radosgw-dbg	ceph	"debugging symbols for radosgw RADOS is a distributed object store used by the Ceph distributed storage system. This package provides a REST gateway to the object store that aims to implement a superset of Amazon's S3 service. . This package contains debugging symbols for radosgw."	GPL-2.0+ GPL-2.0 GPL-3.0 LGPL-2.0 LGPL-2.1 BSD-2-Clause BSD-3-Clause Public Domain Apache-2.0	aes	256	
radosgw-dbg	ceph	"debugging symbols for radosgw RADOS is a distributed object store used by the Ceph distributed storage system. This package provides a REST gateway to the object store that aims to implement a superset of Amazon's S3 service. . This package contains debugging symbols for radosgw."	GPL-2.0+ GPL-2.0 GPL-3.0 LGPL-2.0 LGPL-2.1 BSD-2-Clause BSD-3-Clause Public Domain Apache-2.0	abacus	0	
radosgw-dbg	ceph	"debugging symbols for radosgw RADOS is a distributed object store used by the Ceph distributed storage system. This package provides a REST gateway to the object store that aims to implement a superset of Amazon's S3 service. . This package contains debugging symbols for radosgw."	GPL-2.0+ GPL-2.0 GPL-3.0 LGPL-2.0 LGPL-2.1 BSD-2-Clause BSD-3-Clause Public Domain Apache-2.0	md5	128	

Package name	Source	Package Description	Package License	Encryption types	Encryption Max Key Length	Comment
python-repoze.what-plugins	python-repoze.what-plugins	"authorization framework for Python WSGI applications - plugins collection repoze.what is an authorization framework for WSGI applications based on repoze.who (which deals with authentication and identification). . This package contains a collection of plugins for repoze.what in particular: . * repoze.what.plugins.sql - adapter plugin for SQLAlchemy * repoze.what-pylons - integration with Pylons / TurboGears * repoze.what-quickstart - simple authentication and authorization * repoze.what.plugins.xml - XML adapter plugin"	GPL-3.0			
python-sphinxcontrib.program-output-doc	sphinxcontrib-programoutput	"insert the output of arbitrary commands into documents - doc sphinxcontrib-programoutput is a Sphinx extension to literally insert the output of arbitrary commands into documents helping you to keep your command examples up to date. . This package provides the documentation."	BSD-2-Clause			
ohai	ohai	"Detects data about your operating system and reports it in JSON Information about your system is collected and returned as multidimensional attributes in JSON format. The following information is captured: * Operating system and kernel * Filesystems in use * Network configuration and statistics * Available languages * Virtualization"	Apache-2.0			
python-pytest	pytest	"Simple powerful testing in Python This testing tool has for objective to allow the developers to limit the boilerplate code around the tests promoting the use of built-in mechanisms such as the `assert` keyword."	BSD-3-Clause			
python-pkginfo	python-pkginfo	"Python 2.x module to query metadata from packages This package provides an API for querying the distutils metadata written in the PKG-INFO file inside a source distribution (an sdist) or into the EGG-INFO directory of an installed distribution. . This package contains the Python 2 version of the library"	MIT			
python3-pexpect	pexpect	"Python 3 module for automating interactive applications Pexpect is a pure Python 3 module for spawning child applications; controlling them; and responding to expected patterns in their output. Pexpect works like Don Libes' Expect. Pexpect allows your script to spawn a child application and control it as if a human were typing commands."	ISC			

Package name	Source	Package Description	Package License	Encryption types	Encryption Max Key Length	Comment
python-xstatic-jquery.tablesorter	python-xstatic-jquery.tablesorter	"jQuery Tablesorter XStatic support - Python 2.x XStatic is a packaging standard to package external (often 3rd party) static files as a Python package so they are easily usable on all operating systems with any package management system or even without one. . Many Python projects need to use some specific data files like javascript css java applets images etc. Sometimes these files belong to YOUR project (then you may want to package them separately but you could also just put them into your main package). But in many other cases those files are maintained by someone else (like jQuery javascript library or even much bigger js libraries or applications) and you definitely do not really want to merge them into your project. So you want to have static file packages but you don't want to get lots of stuff you do not want. Thus stuff required by XStatic file packages (especially the main toplevel XStatic package) tries to obey to be a MINIMAL no-fat thing. XStatic doesn't "sell" any web framework or other stuff you don't want. Maybe there will be optional XStatic extensions for all sorts of stuff but they won't be required if you just want the files. . By having static files in packages it is also easier to build virtual envs support linux/bsd/... distribution package maintainers and even windows installs using the same mechanism. . This package provides jQuery Tablesorter support as a Python 2.x module."	GPL-3.0			
crmsh	crmsh	"CRM shell for the pacemaker cluster manager The crm shell is an advanced command-line interface for High-Availability cluster management in GNU/Linux. Effortlessly configure manage and troubleshoot your clusters from the command line with full tab completion and extensive help. crmsh also provides advanced features like low-level cluster configuration cluster scripting and package management and history exploration tools giving you an instant view of what your cluster is doing."	GPL-2.0+ GPL-2.0			
python-testtools	python-testtools	"Extensions to the Python unittest library - Python 2.x testtools (formerly pyunit3k) is a set of extensions to the Python standard library's unit testing framework. These extensions have been derived from years of experience with unit testing in Python and come from many different sources. It's hoped that these extensions will make their way into the standard library eventually. Also included are backports from Python trunk of unittest features that are not otherwise available to existing unittest users. . This package contains the libraries for Python 2.x."	MIT			
libcib-dev	pacemaker	"cluster resource manager CIB library development At its core Pacemaker is a distributed finite state machine capable of co-ordinating the startup and recovery of inter-related services across a set of machines. . Pacemaker understands many different resource types (OCF SYSV systemd) and can accurately model the relationships between them (colocation ordering). . It can even use technology such as Docker to automatically isolate the resources managed by the cluster. . This package contains the headers and other necessary files to build applications or libraries that use the Cluster Information Base library."	GPL-2.0+ GPL-2.0 LGPL-2.1	md5	128	

Package name	Source	Package Description	Package License	Encryption types	Encryption Max Key Length	Comment
mistral-executor	mistral	"OpenStack Workflow service - Executor Mistral is a workflow service. Most business processes consist of multiple distinct interconnected steps that need to be executed in a particular order in a distributed environment. One can describe such process as a set of tasks and task relations and upload such description to Mistral so that it takes care of state management correct execution order parallelism synchronization and high availability. Mistral also provides flexible task scheduling so that it can run a process according to a specified schedule (i.e. every Sunday at 4.00pm) instead of running it immediately. Such set of tasks and relations between them is called a workflow. . This package contains the Executor."	Apache-2.0			
python-sphinx-argparse	sphinx-argparse	"Sphinx extension for argparse commands and options (Python 2) sphinx-argparse is an extension for Sphinx (Python documentation generator) that allows one to generate documentation for command line tools using argparse (command-line parsing library) automatically. . This package contains the extension for Sphinx running on Python 2."	Unknown			
paramiko-doc	paramiko	"Make ssh v2 connections with Python (Documentation) This is a library for making SSH2 connections (client or server). Emphasis is on using SSH2 as an alternative to SSL for making secure connections between Python scripts. All major ciphers and hash methods are supported. SFTP client and server mode are both supported too. . This is the documentation for the package."	GPL-2.0 LGPL-2.1	rsa	unlimited	typically <=8192
hpsa-dkms	hpsa-dkms	"hpsa driver in DKMS format."	unknown			
python-oslo-serialization	python-oslo.serialization	"transitional dummy package for python-oslo-serialization This transitional package is safe to remove and use python-oslo.serialization instead."	Apache-2.0			
python-cliff-doc	python-cliff	"command line interface formulation framework documentation Cliff is a framework for building command line programs. It uses plugins to define sub-commands output formatters and other extensions. . The cliff framework is meant to be used to create multi-level commands such as Subversion and git where the main program handles some basic argument parsing and then invokes a sub-command to do the work. . This is the documentation of python-cliff."	Apache-2.0			
python3-jjsonschema	python-jjsonschema	"An(other) implementation of JSON Schema (Draft 3) for Python 3 JSON Schema is a specification for a JSON-based format for defining the structure of JSON data. JSON Schema provides a contract for what JSON data is required for a given application and how it can be modified much like what XML Schema provides for XML. JSON Schema is intended to provide validation documentation and interaction control of JSON data. . This package contains the Python 3.x module."	GPL-2.0+ GPL-2.0 MIT			
python-markupsafe	markupsafe	"HTML/XHTML/XML string library for Python MarkupSafe is a Python library implementing a unicode subclass that is aware of HTML escaping rules. It can be used to implement automatic string escaping."	Unknown			



Package name	Source	Package Description	Package License	Encryption types	Encryption Max Key Length	Comment
libcpq4	corosync	"Standards-based cluster framework Cpg library Corosync is a project to implement a production quality "Revised BSD" licensed implementation of all core functionalities required by openais. The project implements cutting edge research on virtual synchrony to provide 100% correct operation in the face of failures or partitionable networks with excellent performance characteristics. . The Application Interface Specification is a software API and policies which are used to develop applications that maintain service during faults. . This package contains the Cpg library which is a library included in Corosync."	Public Domain			
python3-pymongo-ext	pymongo	"C-coded extension to the python3-pymongo package Pymongo provides an interface to easily access MongoDB from Python 3. This package contains an extension written in C for higher performance."	MIT Apache-2.0			
python-netaddr	python-netaddr	"manipulation of various common network address notations (Python 2) netaddr is a Python library for the manipulation of various common network address notations and representations. . It takes the hassle out of fiddling with enumerable variations of network addresses presenting a consistent extensible easy-to-use and (above all) Pythonic API. . With it you can validate convert categorise iterate generate slice (and dice): - MAC (Media Access Control) - IEEE EUI-48 and EUI-64 - IP version 4 - IP version 6 - CIDR (Classless Inter-Domain Routing) . This is the Python 2 version of the package."	BSD			
python3-subunit	subunit	"unit testing protocol - Python3 bindings to generate and consume streams subunit is a protocol for test activity serialisation deserialisation. This permits executing tests remotely or saving the result of test runs for later introspection. . The python3-subunit package includes the Python version 3 language bindings."	BSD-3-Clause Apache-2.0			
python-dnspython	dnspython	"DNS toolkit for Python dnspython is a DNS toolkit for Python. It supports almost all record types. It can be used for queries zone transfers and dynamic updates. It supports TSIG authenticated messages and EDNS0. . dnspython provides both high and low level access to DNS. The high level classes perform queries for data of a given name type and class and return an answer set. The low level classes allow direct manipulation of DNS zones messages names and records."	Unknown			
nova-consoleauth	nova	"OpenStack Compute - Console Authenticator OpenStack is a reliable cloud infrastructure. Its mission is to produce the ubiquitous cloud computing platform that will meet the needs of public and private cloud providers regardless of size by being simple to implement and massively scalable. . OpenStack Compute codenamed Nova is a cloud computing fabric controller designed to be modular and easy to extend and adapt. In addition to its "native" OpenStack API it also supports the Amazon EC2 API and it supports many different database backends (including SQLite MySQL and PostgreSQL) hypervisors (KVM Xen) and user directory systems (LDAP SQL). . This package provides the authentication service for nova-console. It grants user requests for console access based on tokens in the identity service and allows access to virtual consoles via a browser."	Apache-2.0			

Package name	Source	Package Description	Package License	Encryption types	Encryption Max Key Length	Comment
python-django-formtools-doc	python-django-formtools	"set of high-level abstractions for Django forms - doc Django's formtools is a set of high-level abstractions for Django forms. Currently for form previews and multi-step forms. . This code used to live in Django proper: in django.contrib.formtools. But it was separated into a standalone package in Django 1.8 to keep the framework's core clean. . This package contains the documentation."	BSD-3-Clause			
<a href="#">libis-spin.js</a>	<a href="#">libis-spin.js</a>	"animated CSS3 loading spinner Spin.js is an animated CSS3 loading spinner with VML fallback for IE. It features: * No images no external CSS * No dependencies * Highly configurable * Resolution independent * Uses VML as fallback in old IEs * Uses @keyframe animations falling back to setTimeout() * Works in all major browsers including IE6 * Small footprint (~1.9K gzipped)"	Unknown			
libgf-complete-dev	gf-complete	"Galois Field Arithmetic - development files Galois Field arithmetic forms the backbone of erasure-coded storage systems most famously the Reed-Solomon erasure code. A Galois Field is defined over w-bit words and is termed GF(2w). As such the elements of a Galois Field are the integers 0 1 . . . 2^w - 1. Galois Field arithmetic defines addition and multiplication over these closed sets of integers in such a way that they work as you would hope they would work. Specifically every number has a unique multiplicative inverse. Moreover there is a value typically the value 2 which has the property that you can enumerate all of the non-zero elements of the field by taking that value to successively higher powers. . This package contains the development files needed to build against the shared library."	BSD-3-Clause			
python3-cryptography-vectors	python-cryptography-vectors	"Test vectors for python-cryptography (Python 3) The test vectors for the cryptography library are rather large; thus they are broken out into their own package so that users who do not need to run the tests do not need to download and install them. . This package contains the Python 3 version of cryptography_vectors."	Apache-2.0			
libvirt0-dbg	libvirt	"library for interfacing with different virtualization systems Libvirt is a C toolkit to interact with the virtualization capabilities of recent versions of Linux (and other OSes). The library aims at providing a long term stable C API for different virtualization mechanisms. It currently supports QEMU KVM XEN OpenVZ LXC and VirtualBox. . This package contains the debugging symbols."	GPL-2.0 GPL-3.0 LGPL-3.0 MIT	sha	512	
libvirt0-dbg	libvirt	"library for interfacing with different virtualization systems Libvirt is a C toolkit to interact with the virtualization capabilities of recent versions of Linux (and other OSes). The library aims at providing a long term stable C API for different virtualization mechanisms. It currently supports QEMU KVM XEN OpenVZ LXC and VirtualBox. . This package contains the debugging symbols."	GPL-2.0 GPL-3.0 LGPL-3.0 MIT	md5	128	
python-bandit	bandit	"Security oriented static analyzer for Python code - Python 2.7 Bandit is a tool designed to find common security issues in Python code. To do this Bandit processes each file builds an Abstract Syntax Tree (AST) and runs appropriate plugins against the AST nodes. Once Bandit has finished scanning all the files it generates a report. . This package contains the Python 2.7 module."	Apache-2.0			
python-oslo.vmware-doc	python-oslo.vmware	"VMware library for OpenStack projects - doc This package is part of the Oslo project which aims at providing unified Python libraries across all of OpenStack. It provides a VMware library for OpenStack projects. . This package contains the documentation."	Apache-2.0			

Package name	Source	Package Description	Package License	Encryption types	Encryption Max Key Length	Comment
docutils-common	python-docutils	"text processing system for reStructuredText - common data reStructuredText is an easy-to-read what-you-see-is-what-you-get plaintext markup syntax and parser system. It is useful for in-line program documentation (such as Python docstrings) for quickly creating simple web pages and for standalone documents. . The purpose of the Docutils project is to create a set of tools for processing reStructuredText documentation into useful formats such as HTML LaTeX ODT or Unix manpages. . This package includes data and configuration files."	GPL-3.0 LGPL-2.1 BSD-2-Clause BSD-3-Clause Public Domain			
pacemaker-doc	pacemaker	"cluster resource manager HTML documentation At its core Pacemaker is a distributed finite state machine capable of co-ordinating the startup and recovery of inter-related services across a set of machines. . Pacemaker understands many different resource types (OCF SYSV systemd) and can accurately model the relationships between them (colocation ordering). . It can even use technology such as Docker to automatically isolate the resources managed by the cluster. . This package contains * the Pacemaker API documentation generated by Doxygen * the Clusters from Scratch book * the Pacemaker Explained book and * the Pacemaker Remote book."	GPL-2.0+ GPL-2.0 LGPL-2.1	md5	128	
python-happybase	python-happybase	"developer-friendly Python library to interact with Apache HBase HappyBase is a developer-friendly Python library to interact with Apache HBase. * Documentation: <a href="http://happybase.readthedocs.org/">http://happybase.readthedocs.org/</a> * HBase: <a href="http://hbase.apache.org/">http://hbase.apache.org/</a> "	MIT Apache-2.0			
python-pykmpip	python-pykmpip	"implementation of the Key Management Interoperability Protocol - Python 2.x PyKMIP is a Python implementation of the Key Management Interoperability Protocol (KMIP) specification supporting version 1.1 of the KMIP standard. The KMIP standard is governed by the Organization for the Advancement of Structured Information Standards (OASIS) and specifies a client/server-based protocol to perform key certificate and secret object management including storage and maintenance operations. . The PyKMIP library currently provides a KMIP client and server supporting the following operations for the KMIP SymmetricKey managed object: * Create * Register * Get * Destroy . This package contains the Python 2.x module."	Apache-2.0			
python3-git	python-git	"Python library to interact with Git repositories - Python 3.x python-git provides object model access to a Git repository so Python can be used to manipulate it. Repository objects can be opened or created which can then be traversed to find parent commit(s) trees blobs etc. . This package provides the Python 3.x module."	BSD-3-Clause			

Package name	Source	Package Description	Package License	Encryption types	Encryption Max Key Length	Comment
swift-plugin-s3	swift-plugin-s3	"swift3 (S3 compatibility) middleware plugin for swift OpenStack Object Storage (code-named Swift) creates redundant scalable object storage using clusters of standardized servers to store petabytes of accessible data. It is not a file system or real-time data storage system but rather a long-term storage system for a more permanent type of static data that can be retrieved leveraged and then updated if necessary. Primary examples of data that best fit this type of storage model are virtual machine images photo storage email storage and backup archiving. Having no central "brain" or master point of control provides greater scalability redundancy and permanence. . Objects are written to multiple hardware devices in the data center with the OpenStack software responsible for ensuring data replication and integrity across the cluster. Storage clusters can scale horizontally by adding new nodes. Should a node fail OpenStack works to replicate its content from other active nodes. Because OpenStack uses software logic to ensure data replication and distribution across different devices inexpensive commodity hard drives and servers can be used in lieu of more expensive equipment. . This package provides the Swift3 Middleware plugin for OpenStack Swift allowing access to OpenStack swift via the Amazon S3 API."	Apache-2.0			
ruby-netaddr	ruby-netaddr	"network addresses manipulation library for ruby NetAddr handles such tasks as automating the subnetting of IP space performas calculations on IP CIDR blocks and similar tasks."	BSD-2-Clause Public Domain			
python3-falcon	python-falcon	"supersonic micro-framework for building cloud APIs - Python 3.x Falcon is a high-performance Python framework for building cloud APIs. It encourages the REST architectural style and tries to do as little as possible while remaining highly effective. . Unlike other Python web frameworks Falcon won't bottleneck your API's performance under highly concurrent workloads. Many frameworks max out at serving simple "hello world" requests at a few thousand req/sec while Falcon can easily serve many more on the same hardware. . Falcon isn't very opinionated. In other words the framework leaves a lot of decisions and implementation details to you. . Features: * Intuitive routing via URI templates and resource classes * Easy access to headers and bodies through request and response classes * Idiomatic HTTP error responses via a handy exception base class * DRY request processing using global resource and method hooks * Snappy unit testing through WSGI helpers and mocks * 20% speed boost when Cython is available * Python 2.6 Python 2.7 PyPy and Python 3.3 support . This package provides the Python 3.x module."	Apache-2.0			
python-django-discover-runner	python-django-discover-runner	"alternative Django test runner - Python 2.x python-django-discover-runner is an alternative Django "TEST_RUNNER" which uses the unittest2 test discovery from a base path specified in the settings or any other module or package specified to the "test" management command including app tests. . This package provides the Python 2.x module."	BSD-3-Clause			
python-taskflow-doc	python-taskflow	"Taskflow structured state management library - doc TaskFlow is a library to do [jobs tasks flows] in a HA manner using different backends to be used with OpenStack projects. More information at <a href="http://wiki.openstack.org/wiki/TaskFlow">http://wiki.openstack.org/wiki/TaskFlow</a> . This package contains the documentation."	Apache-2.0			

Package name	Source	Package Description	Package License	Encryption types	Encryption Max Key Length	Comment
python3-openstack-doc-tools	openstack-doc-tools	"tools used by the OpenStack Documentation project - Python 3.x This package contains a set of tools used to build the OpenStack documentation (install-guide etc.) in multiple formats: html pdf etc. The input format is a set of XML documents. . This package provides the Python 3.x module."	Apache-2.0			
librbd1-dbg	ceph	"debugging symbols for librbd1 RBD is a block device striped across multiple distributed objects in RADOS a reliable autonomic distributed object storage cluster developed as part of the Ceph distributed storage system. This is a shared library allowing applications to manage these block devices. . This package contains debugging symbols for librbd1."	GPL-2.0+ GPL-2.0 GPL-3.0 LGPL-2.0 LGPL-2.1 BSD-2-Clause BSD-3-Clause Public Domain Apache-2.0	crush	unlimited	cephhash
librbd1-dbg	ceph	"debugging symbols for librbd1 RBD is a block device striped across multiple distributed objects in RADOS a reliable autonomic distributed object storage cluster developed as part of the Ceph distributed storage system. This is a shared library allowing applications to manage these block devices. . This package contains debugging symbols for librbd1."	GPL-2.0+ GPL-2.0 GPL-3.0 LGPL-2.0 LGPL-2.1 BSD-2-Clause BSD-3-Clause Public Domain Apache-2.0	sha	512	
librbd1-dbg	ceph	"debugging symbols for librbd1 RBD is a block device striped across multiple distributed objects in RADOS a reliable autonomic distributed object storage cluster developed as part of the Ceph distributed storage system. This is a shared library allowing applications to manage these block devices. . This package contains debugging symbols for librbd1."	GPL-2.0+ GPL-2.0 GPL-3.0 LGPL-2.0 LGPL-2.1 BSD-2-Clause BSD-3-Clause Public Domain Apache-2.0	aes	256	
librbd1-dbg	ceph	"debugging symbols for librbd1 RBD is a block device striped across multiple distributed objects in RADOS a reliable autonomic distributed object storage cluster developed as part of the Ceph distributed storage system. This is a shared library allowing applications to manage these block devices. . This package contains debugging symbols for librbd1."	GPL-2.0+ GPL-2.0 GPL-3.0 LGPL-2.0 LGPL-2.1 BSD-2-Clause BSD-3-Clause Public Domain Apache-2.0	abacus	0	
librbd1-dbg	ceph	"debugging symbols for librbd1 RBD is a block device striped across multiple distributed objects in RADOS a reliable autonomic distributed object storage cluster developed as part of the Ceph distributed storage system. This is a shared library allowing applications to manage these block devices. . This package contains debugging symbols for librbd1."	GPL-2.0+ GPL-2.0 GPL-3.0 LGPL-2.0 LGPL-2.1 BSD-2-Clause BSD-3-Clause Public Domain Apache-2.0	md5	128	
python3-migrate	migrate	"Database schema migration for SQLAlchemy - Python 3.x Inspired by Ruby on Rails' migrations migrate provides a way to deal with database schema changes in SQLAlchemy projects. . SQLAlchemy-migrate is build on top of SQLAlchemy and provides a changeset and a versioning API for database schemas as well as a script utilizing these APIs. The database change sets are managed in a file based repository allowing upgrades and downgrades of database schema versions. The change sets may consist of Python code facilitating the changeset API or SQL scripts. . SQLAlchemy-migrate has support for MySQL PostgreSQL SQLite and Oracle databases. The support for Oracle is not as well tested as the support for the other database systems. . This package provides the Python 3.x module."	GPL-2.0 MIT Apache-2.0			

Package name	Source	Package Description	Package License	Encryption types	Encryption Max Key Length	Comment
python3-oslo.rootwrap	python-oslo.rootwrap	"allows fine filtering of shell commands to run as root - Python 3.x The Oslo Rootwrap allows fine filtering of shell commands to run as root from OpenStack services. . Unlike other Oslo deliverables it should not be used as a Python library but called as a separate process through the oslo-rootwrap command. . This package provides the Python 3.x module."	Apache-2.0			
pacemaker-dbg	pacemaker	"Debugging symbols for Pacemaker High-Availability cluster resource manager for Heartbeat as well as Corosync. . Pacemaker supports a very sophisticated dependency model for n-node clusters and can respond to node and resource-level failures. . It supports both the Heartbeat and Corosync cluster stacks. . This package contains the debugging symbols for Pacemaker."	GPL-2.0+ GPL-2.0 LGPL-2.1	md5	128	
python3-xstatic-jquery.quicksearch	python-xstatic-jquery.quicksearch	"jQuery.quicksearch XStatic support - Python 3.x XStatic is a packaging standard to package external (often 3rd party) static files as a Python package so they are easily usable on all operating systems with any package management system or even without one. . Many Python projects need to use some specific data files like javascript css java applets images etc. Sometimes these files belong to YOUR project (then you may want to package them separately but you could also just put them into your main package). But in many other cases those files are maintained by someone else (like jQuery javascript library or even much bigger js libraries or applications) and you definitely do not really want to merge them into your project. So you want to have static file packages but you don't want to get lots of stuff you do not want. Thus stuff required by XStatic file packages (especially the main toplevel XStatic package) tries to obey to be a MINIMAL no-fat thing. XStatic doesn't "sell" any web framework or other stuff you don't want. Maybe there will be optional XStatic extensions for all sorts of stuff but they won't be required if you just want the files. . By having static files in packages it is also easier to build virtual envs support linux/bsd/... distribution package maintainers and even windows installs using the same mechanism. . This package provides jQuery.quicksearch support as a Python 3.x module."	Unknown			
python-passlib	python-passlib	"comprehensive password hashing framework Password hashing library for Python 2 which provides cross-platform implementations of over 20 password hashing algorithms as well as a framework for managing existing password hashes. It's designed to be useful for a wide range of tasks; from verifying a hash found in /etc/shadow to providing full-strength password hashing for multi-user applications."	BSD-3-Clause			
python3-cassandra	python-cassandra-driver	"Python driver for Apache Cassandra (Python 3) A modern feature-rich and highly-tunable Python client library for Apache Cassandra (1.2+) and DataStax Enterprise (3.1+) using exclusively Cassandra's binary protocol and Cassandra Query Language v3. . Features: * Synchronous and Asynchronous APIs * Simple Prepared and Batch statements * Asynchronous IO parallel execution request pipelining * Connection pooling * Automatic node discovery * Automatic reconnection * Configurable load balancing and retry policies * Concurrent execution utilities * Object mapper . This package contains the Python 3.x module for python-cassandra"	MIT Apache-2.0			

Package name	Source	Package Description	Package License	Encryption types	Encryption Max Key Length	Comment
python3-cachetools	python-cachetools	"extensible memoizing collections and decorators for Python 3 This Python 3 module provides various memoizing collections and decorators including a variant of the Python 3 Standard Library functools.lru_cache() function decorator. . The supported cache algorithms are: . * Least recently used (LRU) * Least frequently used (LFU) * Random replacement (RR) * Per-item time-to-live (TTL)"	Unknown			
python3-doc8	python-doc8	"Style checker for Sphinx (or other) RST documentation - Python 3.x Doc8 is an opinionated style checker for rst (with basic support for plain text) styles of documentation. . This package contains the Python 3.x module."	Apache-2.0			
python3-cmd2	cmd2	"enhanced Python cmd module - Python 3.x Drop-in replacement adds several features for command-prompt tools like searchable and persistent command history multi-line commands input and output redirections integrated Python shell testing helpers . This package provides the Python 3.x module."	MIT			
python3-sqlparse	sqlparse	"non-validating SQL parser for Python 3 Sqlparse is a library which provides support for parsing splitting and customizable formatting of SQL statements in Python environment. . This is the Python 3 version of the package."	GPL-2.0 BSD-2-Clause			
python-pyasn1	pyasn1	"ASN.1 library for Python (Python 2 module) This is an implementation of ASN.1 types and codecs in Python programming language. It has been first written to support particular protocol (SNMP) but then generalized to be suitable for a wide range of protocols based on ASN.1 specification. . This package contains the Python 2 module."	GPL-2.0+ GPL-2.0 BSD-2-Clause			
python3-funcsigs	python-funcsigs	"function signatures from PEP362 - Python 3.x funcsigs is a backport of the PEP 362 function signature features from Python 3.3's inspect module. The backport is compatible with Python 2.6 2.7 as well as 3.2 and up. . This package contains the Python 3.x module."	Apache-2.0			
python3-urllib3	python-urllib3	"HTTP library with thread-safe connection pooling for Python3 urllib3 supports features left out of urllib and urllib2 libraries. . - Re-use the same socket connection for multiple requests (HTTPConnectionPool and HTTPSConnectionPool) (with optional client-side certificate verification). - File posting (encode_multipart_formdata). - Built-in redirection and retries (optional). - Supports gzip and deflate decoding. - Thread-safe and sanity-safe. - Small and easy to understand codebase perfect for extending and building upon. . This package contains the Python 3 version of the library."	Unknown			
erlang-ic	erlang	"Erlang/OTP IDL compiler The IC application is an Erlang implementation of an IDL (CORBA Interface Definition Language) compiler. Depending on the choice of back-end the code will map to Erlang C or Java. The compiler generates client stubs and server skeletons."	LGPL-2.1 Apache-2.0	aes	256	
erlang-ic	erlang	"Erlang/OTP IDL compiler The IC application is an Erlang implementation of an IDL (CORBA Interface Definition Language) compiler. Depending on the choice of back-end the code will map to Erlang C or Java. The compiler generates client stubs and server skeletons."	LGPL-2.1 Apache-2.0	diffiehellman	unlimited	
erlang-ic	erlang	"Erlang/OTP IDL compiler The IC application is an Erlang implementation of an IDL (CORBA Interface Definition Language) compiler. Depending on the choice of back-end the code will map to Erlang C or Java. The compiler generates client stubs and server skeletons."	LGPL-2.1 Apache-2.0	blowfish	448	

Package name	Source	Package Description	Package License	Encryption types	Encryption Max Key Length	Comment
erlang-ic	erlang	"Erlang/OTP IDL compiler The IC application is an Erlang implementation of an IDL (CORBA Interface Definition Language) compiler. Depending on the choice of back-end the code will map to Erlang C or Java. The compiler generates client stubs and server skeletons."	LGPL-2.1 Apache-2.0	sha	512	
erlang-ic	erlang	"Erlang/OTP IDL compiler The IC application is an Erlang implementation of an IDL (CORBA Interface Definition Language) compiler. Depending on the choice of back-end the code will map to Erlang C or Java. The compiler generates client stubs and server skeletons."	LGPL-2.1 Apache-2.0	hmac	160	
erlang-ic	erlang	"Erlang/OTP IDL compiler The IC application is an Erlang implementation of an IDL (CORBA Interface Definition Language) compiler. Depending on the choice of back-end the code will map to Erlang C or Java. The compiler generates client stubs and server skeletons."	LGPL-2.1 Apache-2.0	md5	128	
virtualenv	python-virtualenv	"Python virtual environment creator The virtualenv utility creates virtual Python instances each invocable with its own Python executable. Each instance can have different sets of modules installable via easy_install. Virtual Python instances can also be created without root access. . This is the command line script and manpage."	Unknown			
dpdk-dev	dpdk	"Data Plane Development Kit (development files) DPDK is a set of libraries for fast packet processing. Applications run in user-space and communicate directly with dedicated network interfaces. This package contains examples and the upstream build environment. It is not strictly required in order to build external applications."	LGPL-2.1 BSD	sha	512	
dpdk-dev	dpdk	"Data Plane Development Kit (development files) DPDK is a set of libraries for fast packet processing. Applications run in user-space and communicate directly with dedicated network interfaces. This package contains examples and the upstream build environment. It is not strictly required in order to build external applications."	LGPL-2.1 BSD	ripemd	160	
dpdk-dev	dpdk	"Data Plane Development Kit (development files) DPDK is a set of libraries for fast packet processing. Applications run in user-space and communicate directly with dedicated network interfaces. This package contains examples and the upstream build environment. It is not strictly required in order to build external applications."	LGPL-2.1 BSD	hmac	160	
dpdk-dev	dpdk	"Data Plane Development Kit (development files) DPDK is a set of libraries for fast packet processing. Applications run in user-space and communicate directly with dedicated network interfaces. This package contains examples and the upstream build environment. It is not strictly required in order to build external applications."	LGPL-2.1 BSD	md5	128	
python-muranoclient-doc	python-muranoclient	"cloud-ready application catalog - client doc Murano Project introduces an application catalog which allows application developers and cloud administrators to publish various cloud-ready applications in a browsable categorised catalog which may be used by the cloud users (including the inexperienced ones) to pick-up the needed applications and services and composes the reliable environments out of them in a "push-the-button" manner. . This package contains the documentation for the client."	Apache-2.0			
os-brick-common	python-os-brick	"Library for managing local volume attaches - common files OpenStack Cinder brick library for managing local volume attaches. . Features discovery of volumes being attached to a host for many transport protocols and removal of volumes from a host. . This package contains common files needed by either the Python 2 or 3 module of os-brick."	Apache-2.0			



Package name	Source	Package Description	Package License	Encryption types	Encryption Max Key Length	Comment
python-posix-ipc	python-posix-ipc	"semaphores shared memory and message queues - Python 2.x posix_ipc is a Python module (written in C) that permits creation and manipulation of POSIX inter-process semaphores shared memory and message queues on platforms supporting the POSIX Realtime Extensions a.k.a. POSIX 1003.1b-1993. This includes nearly all Unices and Windows + Cygwin 1.7. . This package contains the Python 2.x module."	BSD-3-Clause			
rbd-fuse	ceph	"FUSE-based rbd client for the Ceph distributed file system Ceph is a distributed network file system designed to provide excellent performance reliability and scalability. This is a FUSE-based client that allows one to map Ceph rbd images as files."	GPL-2.0+ GPL-2.0 GPL-3.0 LGPL-2.0 LGPL-2.1 BSD-2-Clause BSD-3-Clause Public Domain Apache-2.0	crush	unlimited	cephhash
rbd-fuse	ceph	"FUSE-based rbd client for the Ceph distributed file system Ceph is a distributed network file system designed to provide excellent performance reliability and scalability. This is a FUSE-based client that allows one to map Ceph rbd images as files."	GPL-2.0+ GPL-2.0 GPL-3.0 LGPL-2.0 LGPL-2.1 BSD-2-Clause BSD-3-Clause Public Domain Apache-2.0	sha	512	
rbd-fuse	ceph	"FUSE-based rbd client for the Ceph distributed file system Ceph is a distributed network file system designed to provide excellent performance reliability and scalability. This is a FUSE-based client that allows one to map Ceph rbd images as files."	GPL-2.0+ GPL-2.0 GPL-3.0 LGPL-2.0 LGPL-2.1 BSD-2-Clause BSD-3-Clause Public Domain Apache-2.0	aes	256	
rbd-fuse	ceph	"FUSE-based rbd client for the Ceph distributed file system Ceph is a distributed network file system designed to provide excellent performance reliability and scalability. This is a FUSE-based client that allows one to map Ceph rbd images as files."	GPL-2.0+ GPL-2.0 GPL-3.0 LGPL-2.0 LGPL-2.1 BSD-2-Clause BSD-3-Clause Public Domain Apache-2.0	abacus	0	
rbd-fuse	ceph	"FUSE-based rbd client for the Ceph distributed file system Ceph is a distributed network file system designed to provide excellent performance reliability and scalability. This is a FUSE-based client that allows one to map Ceph rbd images as files."	GPL-2.0+ GPL-2.0 GPL-3.0 LGPL-2.0 LGPL-2.1 BSD-2-Clause BSD-3-Clause Public Domain Apache-2.0	md5	128	
python-imaging	pillow	"Python Imaging Library compatibility layer PIL used to provide a PIL.pth file which allowed you to `import Image` but this is deprecated. Use `from PIL import Image` now or install this compatibility package to temporarily get the old behavior back. . This compatibility package is built for Python 2 only."	Unknown			
mongodb-server	mongodb	"object/document-oriented database (server package) MongoDB is a high-performance open source schema-free document-oriented data store that's easy to deploy manage and use. It's network accessible written in C++ and offers the following features: . * Collection oriented storage - easy storage of object-style data * Full index support including on inner objects * Query profiling * Replication and fail-over support * Efficient storage of binary data including large objects (e.g. videos) * Auto-sharding for cloud-level scalability . High performance scalability and reasonable depth of functionality are the goals for the project. . This package contains the server itself (mongod) and the sharding server/load balancer (mongos)."	GPL-2.0 BSD-2-Clause MIT Apache-2.0			

Package name	Source	Package Description	Package License	Encryption types	Encryption Max Key Length	Comment
python3-xstatic-angular-mock	python-xstatic-angular-mock	"Angular JS Mock XStatic support - Python 3.x XStatic is a packaging standard to package external (often 3rd party) static files as a Python package so they are easily usable on all operating systems with any package management system or even without one. . Many Python projects need to use some specific data files like javascript css java applets images etc. Sometimes these files belong to YOUR project (then you may want to package them separately but you could also just put them into your main package). But in many other cases those files are maintained by someone else (like jQuery javascript library or even much bigger js libraries or applications) and you definitely do not really want to merge them into your project. So you want to have static file packages but you don?t want to get lots of stuff you do not want. Thus stuff required by XStatic file packages (especially the main toplevel XStatic package) tries to obey to be a MINIMAL no-fat thing. XStatic doesn't "sell" any web framework or other stuff you don't want. Maybe there will be optional XStatic extensions for all sorts of stuff but they won't be required if you just want the files. . By having static files in packages it is also easier to build virtual envs support linux/bsd/... distribution package maintainers and even windows installs using the same mechanism. . This package provides Angular JS Mock support as a Python 3.x module."	Unknown			
python3-xstatic-angular-gettext	python-xstatic-angular-gettext	"Angular-Gettext (XStatic packaging standard) - Python 3.x XStatic is a Python web development tool for handling required static data files from external projects such as CSS images and JavaScript. It provides a lightweight infrastructure to manage them via Python modules that your app can depend on in a portable virtualenv-friendly way instead of using embedded copies. . This package contains the Python 3.x module support for Angular-Gettext."	Unknown			
python-docker	python-docker	"Python wrapper to access docker.io's control socket This package contains oodles of routines that aid in controlling docker.io over it's socket control the same way the docker.io client controls the daemon. . This package provides Python 2 module bindings only."	Apache-2.0			
python3-astroid	astroid	"rebuild a new abstract syntax tree from Python's AST (Python3) The aim of this module is to provide a common base representation of Python source code for projects such as pychecker pyreverse pylint... Well actually the development of this library is essentially governed by pylint's needs. It used to be called logilab-astng. . It provides a compatible representation which comes from the `_ast` module. It rebuilds the tree generated by the builtin _ast module by recursively walking down the AST and building an extended ast. The new node classes have additional methods and attributes for different usages. They include some support for static inference and local name scopes. Furthermore astroid builds partial trees by inspecting living objects. . Main modules are: . * `bases` `node_classes` and `scoped_nodes` contain the classes for the different type of nodes of the tree. . * the `manager` contains a high level object to get astroid trees from source files and living objects. It maintains a cache of previously constructed tree for quick access. . python3-astroid is the new name of former python3-logilab-astng library."	GPL-2.0 LGPL-2.1			

Package name	Source	Package Description	Package License	Encryption types	Encryption Max Key Length	Comment
keystone	keystone	"OpenStack identity service This is the identity service used by OpenStack for authentication (authN) and high-level authorization (authZ). It currently supports token-based authN with user/service authZ and is scalable to support OAuth SAML and OpenID in future versions. Out of the box Keystone uses SQLite for its identity store database with the option to connect to external LDAP. . This package contains the daemons."	Apache-2.0			
pbuilder	pbuilder	"personal package builder for Debian packages pbuilder constructs a chroot system and builds a package inside the chroot. It is an ideal system to use to check that a package has correct build-dependencies. It uses apt extensively and a local mirror or a fast connection to a Debian mirror is ideal but not necessary. . "pbuilder create" uses debootstrap to create a chroot image. . "pbuilder update" updates the image to the current state of testing/unstable/whatever . "pbuilder build" takes a *.dsc file and builds a binary in the chroot image. . pdebuild is a wrapper for Debian Developers to allow running pbuilder just like "debuild" as a normal user."	GPL-2.0+ GPL-2.0			
libradosstriper-dev	ceph	"RADOS striping interface (development files) libradosstriper is a striping interface built on top of the rados library allowing to stripe bigger objects onto several standard rados objects using an interface very similar to the rados one. . This package contains development files needed for building applications that link against libradosstriper."	GPL-2.0+ GPL-2.0 GPL-3.0 LGPL-2.0 LGPL-2.1 BSD-2-Clause BSD-3-Clause Public Domain Apache-2.0	crush	unlimited	cephhash
libradosstriper-dev	ceph	"RADOS striping interface (development files) libradosstriper is a striping interface built on top of the rados library allowing to stripe bigger objects onto several standard rados objects using an interface very similar to the rados one. . This package contains development files needed for building applications that link against libradosstriper."	GPL-2.0+ GPL-2.0 GPL-3.0 LGPL-2.0 LGPL-2.1 BSD-2-Clause BSD-3-Clause Public Domain Apache-2.0	sha	512	
libradosstriper-dev	ceph	"RADOS striping interface (development files) libradosstriper is a striping interface built on top of the rados library allowing to stripe bigger objects onto several standard rados objects using an interface very similar to the rados one. . This package contains development files needed for building applications that link against libradosstriper."	GPL-2.0+ GPL-2.0 GPL-3.0 LGPL-2.0 LGPL-2.1 BSD-2-Clause BSD-3-Clause Public Domain Apache-2.0	aes	256	
libradosstriper-dev	ceph	"RADOS striping interface (development files) libradosstriper is a striping interface built on top of the rados library allowing to stripe bigger objects onto several standard rados objects using an interface very similar to the rados one. . This package contains development files needed for building applications that link against libradosstriper."	GPL-2.0+ GPL-2.0 GPL-3.0 LGPL-2.0 LGPL-2.1 BSD-2-Clause BSD-3-Clause Public Domain Apache-2.0	abacus	0	
libradosstriper-dev	ceph	"RADOS striping interface (development files) libradosstriper is a striping interface built on top of the rados library allowing to stripe bigger objects onto several standard rados objects using an interface very similar to the rados one. . This package contains development files needed for building applications that link against libradosstriper."	GPL-2.0+ GPL-2.0 GPL-3.0 LGPL-2.0 LGPL-2.1 BSD-2-Clause BSD-3-Clause Public Domain Apache-2.0	md5	128	
python-ldappool	python-ldappool	"connection pool for python-ldap A simple connector pool for python-ldap. The pool keeps LDAP connectors alive and let you reuse them drastically reducing the time spent to initiate a ldap connection. . The pool has useful features like: * transparent reconnection on failures or server restarts * configurable pool size and connectors timeouts * configurable max lifetime for connectors * a context manager to simplify acquiring and releasing a connector"	GPL-2.0 LGPL-2.1			

Package name	Source	Package Description	Package License	Encryption types	Encryption Max Key Length	Comment
python3-lz4	python-lz4	"Python interface to the lz4 compression library (Python 3) This package provides bindings for the liblz4 compression library. . LZ4 is a very fast lossless compression algorithm providing compression speed at 400 MB/s per core scalable with multi-cores CPU. It also features an extremely fast decoder with speed in multiple GB/s per core typically reaching RAM speed limits on multi-core systems. . This package is for Python 3."	GPL-2.0+ GPL-2.0 BSD-3-Clause			
python3-netaddr	python-netaddr	"manipulation of various common network address notations (Python 3) netaddr is a Python library for the manipulation of various common network address notations and representations. . It takes the hassle out of fiddling with enumerable variations of network addresses presenting a consistent extensible easy-to-use and (above all) Pythonic API. . With it you can validate convert categorise iterate generate slice (and dice): - MAC (Media Access Control) - IEEE EUI-48 and EUI-64 - IP version 4 - IP version 6 - CIDR (Classless Inter-Domain Routing) . This is the Python 3 version of the package."	BSD			
python-rabbit	python-rabbit	"A Pythonic interface to the RabbitMQ Management HTTP API Pyrabbit provides an intuitive easy way to work with the data that lives inside of RabbitMQ and manipulate the resources there. . This package contains the libraries for Python 2.x."	MIT			
python3-os-client-config	python-os-client-config	"OpenStack client configuration library - Python 3.x Os-client-config is a library for collecting client configuration for using an OpenStack cloud in a consistent and comprehensive manner. It will find cloud config for as few as 1 cloud and as many as you want to put in a config file. It will read environment variables and config files and it also contains some vendor specific default values so that you don't have to know extra info to use OpenStack . os-client-config honors all of the normal OS_* variables. It does not provide backwards compatibility to service-specific variables such as NOVA_USERNAME. . If you have environment variables and no config files os-client-config will produce a cloud config object named "openstack" containing your values from the environment. . This package contains the Python 3.x module."	Apache-2.0			
python3-os-brick	python-os-brick	"Library for managing local volume attaches - Python 3.x OpenStack Cinder brick library for managing local volume attaches. . Features discovery of volumes being attached to a host for many transport protocols and removal of volumes from a host. . This package contains the Python 3.x module."	Apache-2.0			
nova-compute-kvm	nova	"OpenStack Compute - compute node (KVM) OpenStack is a reliable cloud infrastructure. Its mission is to produce the ubiquitous cloud computing platform that will meet the needs of public and private cloud providers regardless of size by being simple to implement and massively scalable. . OpenStack Compute codenamed Nova is a cloud computing fabric controller designed to be modular and easy to extend and adapt. In addition to its "native" OpenStack API it also supports the Amazon EC2 API and it supports many different database backends (including SQLite MySQL and PostgreSQL) hypervisors (KVM Xen) and user directory systems (LDAP SQL). . This is a dependency package for compute nodes using KVM."	Apache-2.0			

Package name	Source	Package Description	Package License	Encryption types	Encryption Max Key Length	Comment
python-rednose	python-rednose	"coloured output for nosetests - Python 2.x rednose is a nosetests plugin for adding colour (and readability) to nosetest console results. Rednose by default uses auto-colouring which will only use colour if you're running it on a terminal (i.e not piping it to a file). . This package contains the Python 2.x module."	BSD-3-Clause			
neutron-metering-agent	neutron	"OpenStack virtual network service - metering agent Neutron provides an API to dynamically request and configure virtual networks. These networks connect "interfaces" from other OpenStack services (such as vNICs from Nova VMs). The Neutron API supports extensions to provide advanced network capabilities including QoS ACLs and network monitoring. . This package provides the Neutron metering agent."	Apache-2.0			
python-psycopg2-doc	psycopg2	"Python module for PostgreSQL (documentation package) psycopg is a PostgreSQL database adapter for the Python programming language (just like pygresql and popy.) This is version 2 a complete rewrite of the original code to provide new-style classes for connection and cursor objects and other sweet candies. Like the original psycopg 2 was written with the aim of being very small and fast and stable as a rock. . psycopg is different from the other database adapter because it was designed for heavily multi-threaded applications that create and destroy lots of cursors and make a conspicuous number of concurrent INSERTs or UPDATES. psycopg 2 also provides full asynchronous operations for the really brave programmer. . The main advantages of psycopg2 are that it supports the full Python DBAPI-2.0 and being thread safe at level 2. It also includes some extensions to the standard DBAPI-2.0 to allow for better thread performance. . This package contains the psycopg2 documentation"	Public Domain			
python-pymongo-ext	pymongo	"C-coded extension to the python-pymongo package Pymongo provides an interface to easily access MongoDB from Python. This package contains an extension written in C for higher performance."	MIT Apache-2.0			
python-os-net-config-doc	python-os-net-config	"OpenStack network configuration - doc The core aim of this project is to allow fine grained (but extendable) configuration of the networking parameters for a network host. The project consists of: * A CLI (os-net-config) which provides configuration via a YAML or JSON file formats. By default os-net-config uses a YAML config file located at /etc/os-net-config/config.yaml. This can be customized via the --config-file CLI option. * A Python library which provides configuration via an object model. . This package contains the documentation."	Apache-2.0			
python-cachetools	python-cachetools	"extensible memoizing collections and decorators for Python This Python module provides various memoizing collections and decorators including a variant of the Python 3 Standard Library functools.lru_cache() function decorator. . The supported cache algorithms are: . * Least recently used (LRU) * Least frequently used (LFU) * Random replacement (RR) * Per-item time-to-live (TTL)"	Unknown			

Package name	Source	Package Description	Package License	Encryption types	Encryption Max Key Length	Comment
python-pyeclib	python-pyeclib	"interface for implementing erasure codes - Python 2.x This library provides a simple Python interface for implementing erasure codes. To obtain the best possible performance the underlying erasure code algorithms are written in C. . This library makes use of Jerasure for Reed-Solomon and provides its own flat XOR-based erasure code encoder and decoder. Currently it implements a specific class of HD Combination Codes (see "Flat XOR-based erasure codes in storage systems: Constructions efficient recovery and tradeoffs" in IEEE MSST 2010). These codes are well-suited to archival use-cases have a simple construction and require a minimum number of participating disks during single-disk reconstruction (think XOR-based LRC code). . This package contains the Python 2.x module."	BSD-2-Clause			
python-cov-core	cov-core	"plugin core for use by pytest-cov nose-cov and nose2-cov This is a lib package for use by pytest-cov nose-cov and nose2-cov. . This is the Python 2 compatible package."	GPL-3.0 MIT			
python-neutronclient-doc	python-neutronclient	"client - Neutron is a virtual network service for Openstack Neutron is a virtual network service for Openstack and a part of Netstack. Just like OpenStack Nova provides an API to dynamically request and configure virtual servers Neutron provides an API to dynamically request and configure virtual networks. These networks connect "interfaces" from other OpenStack services (e.g. virtual NICs from Nova VMs). The Neutron API supports extensions to provide advanced network capabilities (e.g. QoS ACLs network monitoring etc.) . This package contains the documentation"	Apache-2.0			
python-oslo.cache	python-oslo.cache	"cache storage for Openstack projects - Python 2.7 oslo.cache aims to provide a generic caching mechanism for OpenStack projects by wrapping the dogpile.cache library. The dogpile.cache library provides support memoization key value storage and interfaces to common caching backends such as Memcached. . This package contains the Python 2.7 module."	Apache-2.0			
python-glance	glance	"OpenStack Image Registry and Delivery Service - Python library The Glance project provides services for discovering registering and retrieving virtual machine images over the cloud. They may be stand-alone services or may be used to deliver images from object stores such as OpenStack's Swift service to Nova's compute nodes. . This package contains the Python libraries."	Apache-2.0			
openstack-pkg-tools	openstack-pkg-tools	"Tools and scripts for building Openstack packages in Debian This package contains some useful shell scripts and helpers for building the Openstack packages in Debian including: . * shared code for maintainer scripts (.config .postinst ...). * init script templates to automatically generate init scripts for sysv-rc systemd and upstart. * tools to build backports using sbuild and/or Jenkins based on gbp workflow. * utility to maintain git packaging (to be included in a debian/rules). . Even if this package is maintained in order to build OpenStack packages it is of a general purpose and it can be used for building any package."	Apache-2.0			
python-git-doc	python-git	"Python library to interact with Git repositories - docs python-git provides object model access to a Git repository so Python can be used to manipulate it. Repository objects can be opened or created which can then be traversed to find parent commit(s) trees blobs etc. . This package provides the documentation."	BSD-3-Clause			

Package name	Source	Package Description	Package License	Encryption types	Encryption Max Key Length	Comment
golang-github-miekg-dns-dev	golang-github-miekg-dns	"DNS library in Go Complete and usable DNS library. All widely used Resource Records are supported including the DNSSEC types. It follows a lean and mean philosophy. If there is stuff you should know as a DNS programmer there isn't a convenience function for it. Server side and client side programming is supported i.e. you can build servers and resolvers with it."	BSD-3-Clause			
python3-appdirs	appdirs	"determining appropriate platform-specific directories (Python 3) Depending on your system (Linux Mac OS X or Windows) you have to use different directories for storing user data. appdirs will help you choose an appropriate: . * user data directory (user_data_dir function) * user config directory (user_config_dir function) * user cache directory (user_cache_dir function) * site data directory (site_data_dir function) * site config directory (site_config_dir function) * user log directory (user_log_dir function) . On Linux systems these function return directories based on the XDG Base Directory Specification. . This is the Python 3 version of the package."	MIT			
puppetmaster-passenger	puppet	"configuration management system scalable master service Puppet is a server automation tool. It is composed of a declarative language for expressing system configuration a client and server for distributing it and a library for realizing the configuration. . The primary design goal of Puppet is to have an expressive enough language backed by a powerful enough library that you can write your own server automation applications in just a few lines of code. Puppet?s deep extensibility and open source license lets you add functionality as needed and share your innovations with others. . This package provides a puppet master running under apache with mod_passenger suitable for large deployments. This offers better scalability than the "puppetmaster" package."	GPL-2.0+ GPL-2.0 BSD-3-Clause MIT Public Domain Apache-2.0			
python-os-testr-doc	python-os-testr	"Utility wrappers for testrepository for OpenStack projects - doc A number of small wrappers to support use of testrepository across OpenStack projects. . This package contains the documentation."	Apache-2.0			
haproxy	haproxy	"fast and reliable load balancing reverse proxy HAProxy is a TCP/HTTP reverse proxy which is particularly suited for high availability environments. It features connection persistence through HTTP cookies load balancing header addition modification deletion both ways. It has request blocking capabilities and provides interface to display server status."	GPL-2.0+ GPL-2.0 LGPL-2.1 Apache-2.0			
python3-jingo	python-jingo	"adapter for using Jinja2 templates with Django - Python 3.x Jingo is an adapter for using Jinja2 templates within Django. When configured properly you can render Jinja2 templates in your view the same way you'd render Django templates. . This package contains the Python 3.x module."	BSD-3-Clause			
python-proliantutils	python-proliantutils	"client lib interfacing various devices in HP Proliant Servers - Python 2.x Proliant Management Tools provides Python libraries for interfacing and managing various devices(like iLO) present in HP Proliant Servers. Currently this module offers a library to interface to iLO4 using RIBCL. . This package contains the Python 2.x module."	Apache-2.0			

Package name	Source	Package Description	Package License	Encryption types	Encryption Max Key Length	Comment
python-astroid	astroid	"rebuild a new abstract syntax tree from Python's AST. The aim of this module is to provide a common base representation of Python source code for projects such as pychecker, pyreverse, pylint... Well, actually the development of this library is essentially governed by pylint's needs. It used to be called logilab-astng. . It provides a compatible representation which comes from the `_ast` module. It rebuilds the tree generated by the builtin `_ast` module by recursively walking down the AST and building an extended ast. The new node classes have additional methods and attributes for different usages. They include some support for static inference and local name scopes. Furthermore astroid builds partial trees by inspecting living objects. . Main modules are: . * `bases` `node_classes` and `scoped_nodes` contain the classes for the different type of nodes of the tree. . * the `manager` contains a high level object to get astroid trees from source files and living objects. It maintains a cache of previously constructed tree for quick access. . python-astroid is the new name of former python-logilab-astng library."	GPL-2.0 LGPL-2.1			
python3-xstatic-bootswatch	python-xstatic-bootswatch	"Bootswatch XStatic support - Python 3.x XStatic is a Python web development tool for handling required static data files from external projects such as CSS, images, and JavaScript. It provides a lightweight infrastructure to manage them via Python modules that your app can depend on in a portable, virtualenv-friendly way instead of using embedded copies. . This package contains the Python 3.x module support for the Bootswatch. See the description of the libjs-bootswatch package."	Unknown			
python3-xstatic-jsencrypt	python-xstatic-jsencrypt	"JSEncrypt XStatic support - Python 3.x XStatic is a packaging standard to package external (often 3rd party) static files as a Python package so they are easily usable on all operating systems with any package management system or even without one. . Many Python projects need to use some specific data files like javascript, css, java applets, images, etc. Sometimes these files belong to YOUR project (then you may want to package them separately, but you could also just put them into your main package). But in many other cases, those files are maintained by someone else (like jQuery javascript library or even much bigger js libraries or applications) and you definitely do not really want to merge them into your project. So you want to have static file packages, but you don't want to get lots of stuff you do not want. Thus, stuff required by XStatic file packages (especially the main toplevel XStatic package) tries to obey to be a MINIMAL, no-fat thing. XStatic doesn't "sell" any web framework or other stuff you don't want. Maybe there will be optional XStatic extensions for all sorts of stuff, but they won't be required if you just want the files. . By having static files in packages, it is also easier to build virtual envs, support linux/bsd/... distribution package maintainers, and even windows installs using the same mechanism. . This package provides JSEncrypt support as a Python 3.x module."	Unknown			
golang-github-pborman-uuid-dev	golang-github-pborman-uuid	"Go bindings to work with UUIDs. Generates and inspects UUIDs based on RFC 4122 and DCE 1.1: Authentication and Security Services."	BSD-3-Clause			
python-oslo-utils	python-oslo.utils	"transitional dummy package for python-oslo-utils. This transitional package to python-oslo.utils is safe to remove."	Apache-2.0			



Package name	Source	Package Description	Package License	Encryption types	Encryption Max Key Length	Comment
python3-oslotest	python-oslotest	"OpenStack test framework - Python 3.x OpenStack test framework that provides base classes and fixtures for creating unit and functional tests. . This package contains the Python 3.x module."	Apache-2.0			
python-cliff	python-cliff	"command line interface formulation framework - Python 2.x Cliff is a framework for building command line programs. It uses plugins to define sub-commands output formatters and other extensions. . The cliff framework is meant to be used to create multi-level commands such as Subversion and git where the main program handles some basic argument parsing and then invokes a sub-command to do the work. . This package provides the Python 2.x module."	Apache-2.0			
libnl-idiag-3-dev	libnl3	"development library and headers for libnl-genl-3 This is a library for applications dealing with netlink sockets. The library provides an interface for raw netlink messaging and various netlink family specific interfaces. . This package contains the files that are needed to build applications using libnl-idiag-3."	GPL-2.0 LGPL-2.1			
galera-3-dbg	galera-3	"debugging symbols for galera-3 This package contains the debugging symbols for galera-3."	GPL-2.0 GFDL-1.3 BSD-3-Clause			
nova-scheduler	nova	"OpenStack Compute - virtual machine scheduler OpenStack is a reliable cloud infrastructure. Its mission is to produce the ubiquitous cloud computing platform that will meet the needs of public and private cloud providers regardless of size by being simple to implement and massively scalable. . OpenStack Compute codenamed Nova is a cloud computing fabric controller designed to be modular and easy to extend and adapt. In addition to its "native" OpenStack API it also supports the Amazon EC2 API and it supports many different database backends (including SQLite MySQL and PostgreSQL) hypervisors (KVM Xen) and user directory systems (LDAP SQL). . This is the Nova scheduler."	Apache-2.0			
ceph-mds-dbg	ceph	"debugging symbols for ceph-mds Ceph is a distributed storage and network file system designed to provide excellent performance reliability and scalability. . This package contains the debugging symbols for ceph-mds."	GPL-2.0+ GPL-2.0 GPL-3.0 LGPL-2.0 LGPL-2.1 BSD-2-Clause BSD-3-Clause Public Domain Apache-2.0	crush	unlimited	cephhash
ceph-mds-dbg	ceph	"debugging symbols for ceph-mds Ceph is a distributed storage and network file system designed to provide excellent performance reliability and scalability. . This package contains the debugging symbols for ceph-mds."	GPL-2.0+ GPL-2.0 GPL-3.0 LGPL-2.0 LGPL-2.1 BSD-2-Clause BSD-3-Clause Public Domain Apache-2.0	sha	512	
ceph-mds-dbg	ceph	"debugging symbols for ceph-mds Ceph is a distributed storage and network file system designed to provide excellent performance reliability and scalability. . This package contains the debugging symbols for ceph-mds."	GPL-2.0+ GPL-2.0 GPL-3.0 LGPL-2.0 LGPL-2.1 BSD-2-Clause BSD-3-Clause Public Domain Apache-2.0	aes	256	
ceph-mds-dbg	ceph	"debugging symbols for ceph-mds Ceph is a distributed storage and network file system designed to provide excellent performance reliability and scalability. . This package contains the debugging symbols for ceph-mds."	GPL-2.0+ GPL-2.0 GPL-3.0 LGPL-2.0 LGPL-2.1 BSD-2-Clause BSD-3-Clause Public Domain Apache-2.0	abacus	0	
ceph-mds-dbg	ceph	"debugging symbols for ceph-mds Ceph is a distributed storage and network file system designed to provide excellent performance reliability and scalability. . This package contains the debugging symbols for ceph-mds."	GPL-2.0+ GPL-2.0 GPL-3.0 LGPL-2.0 LGPL-2.1 BSD-2-Clause BSD-3-Clause Public Domain Apache-2.0	md5	128	

Package name	Source	Package Description	Package License	Encryption types	Encryption Max Key Length	Comment
python-pycadf	python-pycadf	"implementation of DMTF Cloud Audit (CADF) data model - Python 2.7 pyCADF is an implementation of DMTF Cloud Audit (CADF) data model. DMTF Cloud Management Initiative is promoting the work of the Cloud Management Work Group the Cloud Auditing Data Federation Working Group the System Virtualization Partitioning Clustering Working Group and the Software Entitlement Working Group. See <a href="http://dmtf.org">http://dmtf.org</a> for details. . This package contains the Python 2.7 module."	Apache-2.0			
python-xstatic-jasmine	python-xstatic-jasmine	"Jasmine JS XStatic support - Python 2.x XStatic is a packaging standard to package external (often 3rd party) static files as a Python package so they are easily usable on all operating systems with any package management system or even without one. . Many Python projects need to use some specific data files like javascript css java applets images etc. Sometimes these files belong to YOUR project (then you may want to package them separately but you could also just put them into your main package). But in many other cases those files are maintained by someone else (like jQuery javascript library or even much bigger js libraries or applications) and you definitely do not really want to merge them into your project. So you want to have static file packages but you don't want to get lots of stuff you do not want. Thus stuff required by XStatic file packages (especially the main toplevel XStatic package) tries to obey to be a MINIMAL no-fat thing. XStatic doesn't "sell" any web framework or other stuff you don't want. Maybe there will be optional XStatic extensions for all sorts of stuff but they won't be required if you just want the files. . By having static files in packages it is also easier to build virtual envs support linux/bsd/... distribution package maintainers and even windows installs using the same mechanism. . This package provides Jasmine JS support as a Python 2.x module."	Unknown			
alembic	alembic	"lightweight database migration tool for SQLAlchemy Alembic is a new database migration tool written by the author of SQLAlchemy. A migration tool offers the following functionality: . * Can emit ALTER statements to a database in order to change the structure of tables and other constructs * Provides a system whereby "migration scripts" may be constructed; each script indicates a particular series of steps that can "upgrade" a target database to a new version and optionally a series of steps that can "downgrade" similarly doing the same steps in reverse. * Allows the scripts to execute in some sequential manner. . This package provides /usr/bin/alembic script and documentation for Alembic and depends on the python-alembic package which contains all the actual code (in Python 2) for Alembic to actually work."	MIT			
cinder-scheduler	cinder	"OpenStack block storage system - Scheduler server Cinder is a block Storage-as-a-Service system for the OpenStack cloud computing suite. It re-implements the features of Nova-volume which it directly replaces. . Cinder uses LVM partitions of your volume servers in order to provide iSCSI permanent block storage devices for your virtual machines running on Nova. It also has back-end drivers for many hardware and software storage solutions like Ceph NFS Net-APP etc. . This package contains the Cinder Scheduler server."	Apache-2.0			

Package name	Source	Package Description	Package License	Encryption types	Encryption Max Key Length	Comment
neutron-vpnaas-doc	neutron-vpnaas	"VPN-as-a-Service driver for OpenStack Neutron. Neutron is a virtual network service for Openstack and a part of Netstack. Just like OpenStack Nova provides an API to dynamically request and configure virtual servers, Neutron provides an API to dynamically request and configure virtual networks. These networks connect "interfaces" from other OpenStack services (e.g. virtual NICs from Nova VMs). The Neutron API supports extensions to provide advanced network capabilities (e.g. QoS ACLs, network monitoring, etc.) . This package contains the documentation"	Apache-2.0			
ceph-deploy	ceph-deploy	"Deployment and configuration of Ceph. Ceph-deploy is an easy to use deployment and configuration tool for the Ceph distributed storage system. . This package includes the programs and libraries to support simple ceph cluster deployment."	MIT			
python-swift	swift	"distributed virtual object store - Python libraries. OpenStack Object Storage (code-named Swift) creates redundant, scalable object storage using clusters of standardized servers to store petabytes of accessible data. It is not a file system or real-time data storage system, but rather a long-term storage system for a more permanent type of static data that can be retrieved leveraged and then updated if necessary. Primary examples of data that best fit this type of storage model are virtual machine images, photo storage, email storage, and backup archiving. Having no central "brain" or master point of control provides greater scalability, redundancy, and permanence. . Objects are written to multiple hardware devices in the data center, with the OpenStack software responsible for ensuring data replication and integrity across the cluster. Storage clusters can scale horizontally by adding new nodes. Should a node fail, OpenStack works to replicate its content from other active nodes. Because OpenStack uses software logic to ensure data replication and distribution across different devices, inexpensive commodity hard drives and servers can be used in lieu of more expensive equipment. . This package provides the Python libraries that actually implement everything."	Apache-2.0			
python-oslo-config-doc	python-oslo.config	"transitional dummy package for python-oslo-config-doc. This transitional package is safe to remove and use python-oslo.config-doc instead."	Apache-2.0			
python-tk	python-stdlib-extensions	"Tkinter - Writing Tk applications with Python. A module for writing portable GUI applications with Python using Tk. Also known as Tkinter."	Unknown			
python-xstatic-roboto-fontface	python-xstatic-roboto-fontface	"Roboto Fontface XStatic support - Python 2.7. XStatic is a Python web development tool for handling required static data files from external projects, such as CSS, images, and JavaScript. It provides a lightweight infrastructure to manage them via Python modules that your app can depend on in a portable, virtualenv-friendly way instead of using embedded copies. . This package contains the Python 2.7 module support for the Roboto Fontface. See the description of the fonts-roboto-fontface package."	Apache-2.0			

Package name	Source	Package Description	Package License	Encryption types	Encryption Max Key Length	Comment
murano-common	murano	"cloud-ready application catalog - common files Murano Project introduces an application catalog which allows application developers and cloud administrators to publish various cloud-ready applications in a browsable categorised catalog which may be used by the cloud users (including the inexperienced ones) to pick-up the needed applications and services and composes the reliable environments out of them in a "push-the-button" manner. . This package contains common files to all Murano servers."	Apache-2.0			
python-bson	pymongo	"Python implementation of BSON for MongoDB BSON Python module contains all of the Binary JSON encoding and decoding logic for MongoDB."	MIT Apache-2.0			
python-bintrees	python-bintrees	"provides Binary- RedBlack- and AVL-Trees written in Python and Cython/C. - Python 2.7 Bundled Classes are much slower than the built-in dict class but all iterators/generators yielding data in sorted key order. Trees can be used as drop in replacement for dicts in most cases. . Trees written in Python: BinaryTree ? unbalanced binary tree AVLTree ? balanced AVL-Tree RBTREE ? balanced Red-Black-Tree . Trees written with C-Functions and Cython as wrapper: FastBinaryTree ? unbalanced binary tree FastAVLTree ? balanced AVL-Tree FastRBTREE ? balanced Red-Black-Tree . This package contains the Python 2.7 module."	MIT			
python3-editor	python-editor	"programmatically open an editor capture the result - Python 3.x python-editor is a library that provides the editor module for programmatically interfacing with your system's \$EDITOR. The user can then enter a commit message for example. . Editor first looks for the environment variable. If set it uses the value as-is without fallbacks. If no \$EDITOR is set editor will search through a list of known editors and use the first one that exists on the system. For example on Linux editor will look for the following editors in order: * vim * emacs * nano . When calling the edit() function editor will open the editor in a subprocess inheriting the parent process's stdin stdout . This package contains the Python 3.x module."	Apache-2.0			
python-stevedore	stevedore	"manage dynamic plugins for Python applications - python2 Python makes loading code dynamically easy allowing you to configure and extend your application by discovering and loading extensions (plugins) at runtime. Many applications implement their own library for doing this using __import__ or importlib. stevedore avoids creating yet another extension mechanism by building on top of setuptools entry points. The code for managing entry points tends to be repetitive though so stevedore provides manager classes for implementing common patterns for using dynamically loaded extensions. . This package provides the Python 2.x module."	GPL-2.0+ GPL-2.0 Apache-2.0			
python-networkx-doc	python-networkx	"tool to create manipulate and study complex networks - documentation NetworkX is a Python-based package for the creation manipulation and study of the structure dynamics and functions of complex networks. . The structure of a graph or network is encoded in the edges (connections links ties arcs bonds) between nodes (vertices sites actors). If unqualified by graph it's meant a simple undirected graph i.e. no self-loops and no multiple edges are allowed. By a network it's usually meant a graph with weights (fields properties) on nodes and/or edges. . The potential audience for NetworkX includes: mathematicians physicists biologists computer scientists social scientists. . This package contains documentation for NetworkX."	GPL-3.0 BSD-3-Clause			

Package name	Source	Package Description	Package License	Encryption types	Encryption Max Key Length	Comment
python-mako-doc	mako	"documentation for the Mako Python library Mako is a template library written in Python. . This package contains the documentation for Mako in HTML and reStructuredText formats."	BSD-3-Clause			
python-termstyle	python-termstyle	"console colouring for python - Python 2.x Termstyle is a simple Python library for adding coloured output to terminal (console) programs. The definitions come from ECMA-048 the "Control Functions for Coded Character Sets" standard. . This package contains the Python 2.x module."	BSD-3-Clause			
mistral-kilo	mistral-kilo	"Mistral is a workflow service. Most business processes consist of multiple distinct interconnected steps that need to be executed in a particular order in a distributed environment. One can describe such process as a set of tasks and task relations and upload such description to Mistral so that it takes care of state management correct execution order parallelism synchronization and high availability. . This package contains the Mistral virtual environment."	unknown			
zaqar-server	zaqar	"OpenStack Queueing as a Service - API server Zaqar is a multi-tenant cloud messaging service for web developers. It combines the ideas pioneered by Amazon's SQS product with additional semantics to support event broadcasting. . The service features a fully RESTful API which developers can use to send messages between various components of their SaaS and mobile applications by using a variety of communication patterns. Underlying this API is an efficient messaging engine designed with scalability and security in mind. . Other OpenStack components can integrate with Zaqar to surface events to end users and to communicate with guest agents that run in the "over-cloud" layer. Cloud operators can leverage Zaqar to provide equivalents of SQS and SNS to their customers. . By installing python-zaqarclient you get programmatic access to the Zaqar v1.0 API library. Plus it installs a plugin to python-openstackclient that allows you to perform simple queue operations. . This package contains the API server on which clients will connect."	Apache-2.0			
python3-xstatic-smart-table	python-xstatic-smart-table	"AngularJS smart-table (XStatic packaging standard) - Python 3.x XStatic is a Python web development tool for handling required static data files from external projects such as CSS images and JavaScript. It provides a lightweight infrastructure to manage them via Python modules that your app can depend on in a portable virtualenv-friendly way instead of using embedded copies. . This package contains the Python 3.x module for supporting the smart-table javascript library."	Apache-2.0			
python-openstackdocstheme	python-openstackdocstheme	"extension support for Sphin OpenStack docs - Python 2.7 Theme and extension support for Sphinx documentation that is published to docs.openstack.org. Intended for use by OpenStack projects. . This package contains the Python 2.7 module."	Apache-2.0			
libnl-genl-3-200	libnl3	"library for dealing with netlink sockets - generic netlink This is a library for applications dealing with netlink sockets. The library provides an interface for raw netlink messaging and various netlink family specific interfaces. . API to the generic netlink protocol an extended version of the netlink protocol."	GPL-2.0 LGPL-2.1			
erlang-os-mon	erlang	"Erlang/OTP operating system monitor The operating system monitor OS_Mon provides services for monitoring CPU load disk usage memory usage and OS messages."	LGPL-2.1 Apache-2.0	aes	256	

Package name	Source	Package Description	Package License	Encryption types	Encryption Max Key Length	Comment
erlang-os-mon	erlang	"Erlang/OTP operating system monitor The operating system monitor OS_Mon provides services for monitoring CPU load disk usage memory usage and OS messages."	LGPL-2.1 Apache-2.0	diffiehellman	unlimited	
erlang-os-mon	erlang	"Erlang/OTP operating system monitor The operating system monitor OS_Mon provides services for monitoring CPU load disk usage memory usage and OS messages."	LGPL-2.1 Apache-2.0	blowfish	448	
erlang-os-mon	erlang	"Erlang/OTP operating system monitor The operating system monitor OS_Mon provides services for monitoring CPU load disk usage memory usage and OS messages."	LGPL-2.1 Apache-2.0	sha	512	
erlang-os-mon	erlang	"Erlang/OTP operating system monitor The operating system monitor OS_Mon provides services for monitoring CPU load disk usage memory usage and OS messages."	LGPL-2.1 Apache-2.0	hmac	160	
erlang-os-mon	erlang	"Erlang/OTP operating system monitor The operating system monitor OS_Mon provides services for monitoring CPU load disk usage memory usage and OS messages."	LGPL-2.1 Apache-2.0	md5	128	
python-sqlalchemy	sqlalchemy	"SQL toolkit and Object Relational Mapper for Python SQLAlchemy is an SQL database abstraction library for Python. Its strengths are: * full power and flexibility of SQL. SQLAlchemy provides a full suite of well known enterprise-level persistence patterns designed for efficient and high-performing database access adapted into a simple and Pythonic domain language. * extremely easy to use for all the basic tasks such as: accessing pooled connections constructing SQL from Python expressions finding object instances and committing object modifications back to the database. * powerful enough for complicated tasks such as: eager load a graph of objects and their dependencies via joins; map recursive adjacency structures automatically; map objects to not just tables but to any arbitrary join or select statement; combine multiple tables together to load whole sets of otherwise unrelated objects from a single result set; commit entire graphs of object changes in one step. * built to conform to what DBAs demand including the ability to swap out generated SQL with hand-optimized statements full usage of bind parameters for all literal values fully transactionalized and consistent updates using Unit of Work. * modular. Different parts of SQLAlchemy can be used independently of the rest including the connection pool SQL construction and ORM. SQLAlchemy is constructed in an open style that allows plenty of customization with an architecture that supports custom datatypes custom SQL extensions and ORM plugins which can augment or extend mapping functionality."	Unknown			

Package name	Source	Package Description	Package License	Encryption types	Encryption Max Key Length	Comment
python3-xstatic-jquery	python-xstatic-jquery	"jquery XStatic support - Python 3.x XStatic is a packaging standard to package external (often 3rd party) static files as a Python package so they are easily usable on all operating systems with any package management system or even without one. . Many Python projects need to use some specific data files like javascript css java applets images etc. Sometimes these files belong to YOUR project (then you may want to package them separately but you could also just put them into your main package). But in many other cases those files are maintained by someone else (like jQuery javascript library or even much bigger js libraries or applications) and you definitely do not really want to merge them into your project. So you want to have static file packages but you don't want to get lots of stuff you do not want. Thus stuff required by XStatic file packages (especially the main toplevel XStatic package) tries to obey to be a MINIMAL no-fat thing. XStatic doesn't "sell" any web framework or other stuff you don't want. Maybe there will be optional XStatic extensions for all sorts of stuff but they won't be required if you just want the files. . By having static files in packages it is also easier to build virtual envs support linux/bsd/... distribution package maintainers and even windows installs using the same mechanism. . This package provides jQuery support as a Python 3.x module."	unknown			
qemu-system	qemu	"QEMU full system emulation binaries QEMU is a fast processor emulator: currently the package supports ARM CRIS i386 M68k (ColdFire) MicroBlaze MIPS PowerPC SH4 SPARC and x86-64 emulation. By using dynamic translation it achieves reasonable speed while being easy to port on new host CPUs. . This metapackage provides the full system emulation binaries for all supported targets by depending on all per-architecture system emulation packages which QEMU supports."	GPL-2.0 MIT	crypt	65	
qemu-system	qemu	"QEMU full system emulation binaries QEMU is a fast processor emulator: currently the package supports ARM CRIS i386 M68k (ColdFire) MicroBlaze MIPS PowerPC SH4 SPARC and x86-64 emulation. By using dynamic translation it achieves reasonable speed while being easy to port on new host CPUs. . This metapackage provides the full system emulation binaries for all supported targets by depending on all per-architecture system emulation packages which QEMU supports."	GPL-2.0 MIT	aes	256	
qemu-system	qemu	"QEMU full system emulation binaries QEMU is a fast processor emulator: currently the package supports ARM CRIS i386 M68k (ColdFire) MicroBlaze MIPS PowerPC SH4 SPARC and x86-64 emulation. By using dynamic translation it achieves reasonable speed while being easy to port on new host CPUs. . This metapackage provides the full system emulation binaries for all supported targets by depending on all per-architecture system emulation packages which QEMU supports."	GPL-2.0 MIT	des	56	
qemu-system	qemu	"QEMU full system emulation binaries QEMU is a fast processor emulator: currently the package supports ARM CRIS i386 M68k (ColdFire) MicroBlaze MIPS PowerPC SH4 SPARC and x86-64 emulation. By using dynamic translation it achieves reasonable speed while being easy to port on new host CPUs. . This metapackage provides the full system emulation binaries for all supported targets by depending on all per-architecture system emulation packages which QEMU supports."	GPL-2.0 MIT	tripleDES	168	

Package name	Source	Package Description	Package License	Encryption types	Encryption Max Key Length	Comment
qemu-system	qemu	"QEMU full system emulation binaries QEMU is a fast processor emulator: currently the package supports ARM CRIS i386 M68k (ColdFire) MicroBlaze MIPS PowerPC SH4 SPARC and x86-64 emulation. By using dynamic translation it achieves reasonable speed while being easy to port on new host CPUs. . This metapackage provides the full system emulation binaries for all supported targets by depending on all per-architecture system emulation packages which QEMU supports."	GPL-2.0 MIT	sha	512	
ruby-hiera	hiera	"A simple pluggable Hierarchical Database. Hiera is a simple pluggable Hierarchical Database."	Apache-2.0			
python3-jsonpath-rw-ext	python-jsonpath-rw-ext	"Extensions for JSONPath RW - Python 3.x Jsonpath-rw-ext extends json-path-rw capabilities by adding multiple extensions: 'len' that allows one to get the length of a list. 'sorted' that returns a sorted version of a list 'arithmetic' that permits one to make math operation between elements and 'filter' to select only certain elements of a list. . This package contains the Python 3.x module."	Apache-2.0			
python3-ldap3	python-ldap3	"Pure Python LDAP client library A pure Python 3 LDAP version 3 strictly conforming to RFC4511 released under the LGPL v3 open source license. RFC4511 is the current LDAP specification (June 2006) from IETF and obsoletes the previous LDAP RFCs 2251 2830 3771 (December 1997) . This package contains the Python 3.x version of the library."	Unknown			
python-ipaddress	python-ipaddress	"Backport of Python 3 ipaddress module (Python 2) This module is a backport of the stdlib "ipaddress" module from Python 3. The "ipaddress" module is in turn based off of the "ipaddr" module available in the "python-ipaddr" but there are some important API differences; make sure you are using the right module. . This package contains the Python 2 module."	Unknown			
python-xstatic-rickshaw	python-xstatic-rickshaw	"Rickshaw JS XStatic support - Python 2.x XStatic is a packaging standard to package external (often 3rd party) static files as a Python package so they are easily usable on all operating systems with any package management system or even without one. . Many Python projects need to use some specific data files like javascript css java applets images etc. Sometimes these files belong to YOUR project (then you may want to package them separately but you could also just put them into your main package). But in many other cases those files are maintained by someone else (like jQuery javascript library or even much bigger js libraries or applications) and you definitely do not really want to merge them into your project. So you want to have static file packages but you don?t want to get lots of stuff you do not want. Thus stuff required by XStatic file packages (especially the main toplevel XStatic package) tries to obey to be a MINIMAL no-fat thing. XStatic doesn't "sell" any web framework or other stuff you don't want. Maybe there will be optional XStatic extensions for all sorts of stuff but they won't be required if you just want the files. . By having static files in packages it is also easier to build virtual envs support linux/bsd/... distribution package maintainers and even windows installs using the same mechanism. . This package provides Rickshaw JS support as a Python 2.x module."	Unknown			



Package name	Source	Package Description	Package License	Encryption types	Encryption Max Key Length	Comment
libiperf0	iperf3	"Internet Protocol bandwidth measuring tool (runtime files) Iperf3 is a tool for performing network throughput measurements. It can test either TCP or UDP throughput. . This is a new implementation that shares no code with the original iperf from NLANR/DAST and also is not backwards compatible. . This is the runtime package for programs that use the shared iperf library."	GPL-2.0+ GPL-2.0 BSD-3-Clause MIT Public Domain			
python-xstatic-bootswatch	python-xstatic-bootswatch	"Bootswatch XStatic support - Python 2.7 XStatic is a Python web development tool for handling required static data files from external projects such as CSS images and JavaScript. It provides a lightweight infrastructure to manage them via Python modules that your app can depend on in a portable virtualenv-friendly way instead of using embedded copies. . This package contains the Python 2.7 module support for the Bootswatch. See the description of the libjs-bootswatch package."	Unknown			
kolla	kolla	"containers and deployment tools for operating OpenStack clouds Kolla provides production-ready containers and deployment tools for operating OpenStack clouds. It provides Docker containers and Ansible playbooks to meet its mission. Kolla is highly opinionated out of the box but allows for complete customization. This permits operators with little experience to deploy OpenStack quickly and as experience grows modify the OpenStack configuration to suit the operator's exact requirements. . This package provides most of the Kolla files (ansible docker etc.)."	Apache-2.0			
python-oslo-concurrency	python-oslo.concurrency	"transitional dummy package for python-oslo-concurrency This transitional package is safe to remove and use python-oslo.concurrency instead."	Apache-2.0			
python-xstatic-jquery.quicksearch	python-xstatic-jquery.quicksearch	"jQuery.quicksearch XStatic support - Python 2.x XStatic is a packaging standard to package external (often 3rd party) static files as a Python package so they are easily usable on all operating systems with any package management system or even without one. . Many Python projects need to use some specific data files like javascript css java applets images etc. Sometimes these files belong to YOUR project (then you may want to package them separately but you could also just put them into your main package). But in many other cases those files are maintained by someone else (like jQuery javascript library or even much bigger js libraries or applications) and you definitely do not really want to merge them into your project. So you want to have static file packages but you don't want to get lots of stuff you do not want. Thus stuff required by XStatic file packages (especially the main toplevel XStatic package) tries to obey to be a MINIMAL no-fat thing. XStatic doesn't "sell" any web framework or other stuff you don't want. Maybe there will be optional XStatic extensions for all sorts of stuff but they won't be required if you just want the files. . By having static files in packages it is also easier to build virtual envs support linux/bsd/... distribution package maintainers and even windows installs using the same mechanism. . This package provides jQuery.quicksearch support as a Python 2.x module."	Unknown			
ceph-mds	ceph	"metadata server for the ceph distributed file system Ceph is a distributed storage and network file system designed to provide excellent performance reliability and scalability. . This package contains the metadata server daemon which is used to create a distributed file system on top of the ceph storage cluster."	GPL-2.0+ GPL-2.0 GPL-3.0 LGPL-2.0 LGPL-2.1 BSD-2-Clause BSD-3-Clause Public Domain Apache-2.0	crush	unlimited	cephhash

Package name	Source	Package Description	Package License	Encryption types	Encryption Max Key Length	Comment
ceph-mds	ceph	"metadata server for the ceph distributed file system Ceph is a distributed storage and network file system designed to provide excellent performance reliability and scalability. . This package contains the metadata server daemon which is used to create a distributed file system on top of the ceph storage cluster."	GPL-2.0+ GPL-2.0 GPL-3.0 LGPL-2.0 LGPL-2.1 BSD-2-Clause BSD-3-Clause Public Domain Apache-2.0	sha	512	
ceph-mds	ceph	"metadata server for the ceph distributed file system Ceph is a distributed storage and network file system designed to provide excellent performance reliability and scalability. . This package contains the metadata server daemon which is used to create a distributed file system on top of the ceph storage cluster."	GPL-2.0+ GPL-2.0 GPL-3.0 LGPL-2.0 LGPL-2.1 BSD-2-Clause BSD-3-Clause Public Domain Apache-2.0	aes	256	
ceph-mds	ceph	"metadata server for the ceph distributed file system Ceph is a distributed storage and network file system designed to provide excellent performance reliability and scalability. . This package contains the metadata server daemon which is used to create a distributed file system on top of the ceph storage cluster."	GPL-2.0+ GPL-2.0 GPL-3.0 LGPL-2.0 LGPL-2.1 BSD-2-Clause BSD-3-Clause Public Domain Apache-2.0	abacus	0	
ceph-mds	ceph	"metadata server for the ceph distributed file system Ceph is a distributed storage and network file system designed to provide excellent performance reliability and scalability. . This package contains the metadata server daemon which is used to create a distributed file system on top of the ceph storage cluster."	GPL-2.0+ GPL-2.0 GPL-3.0 LGPL-2.0 LGPL-2.1 BSD-2-Clause BSD-3-Clause Public Domain Apache-2.0	md5	128	
golang-x-text-dev	golang-x-text	repository of text-related packages such as character encodings text transformations and locale-specific text handling. . - cases: Package cases provides general and language-specific case mappers. - cldr: Package cldr provides a parser for LDML and related XML formats. - collate: Package collate contains types for comparing and sorting Unicode strings according to a given collation order. - display: Package display provides display names for languages scripts and regions in a requested language. - encoding: Package encoding defines an interface for character encodings such as Shift JIS and Windows 1252 that can convert to and from UTF-8. - encoding/charmap: Package charmap provides simple character encodings such as IBM Code Page 437 and Windows 1252. - encoding/japanese: Package japanese provides Japanese encodings such as EUC-JP and Shift JIS. - encoding/korean: Package korean provides Korean encodings such as EUC-KR. - encoding/simplifiedchinese: Package simplifiedchinese provides Simplified Chinese encodings such as GBK. - encoding/traditionalchinese: Package traditionalchinese provides Traditional Chinese encodings such as Big5. - encoding/unicode: Package unicode provides Unicode encodings such as UTF-16. - internal/colltab: Package colltab contains functionality related to collation tables. - internal/gen: Package gen contains common code for the various code generation tools in the text repository. - internal/testtext: Package testtext contains test data that is of common use to the text repository. - internal/triegen: Package triegen implements a code generator for a trie for associating unsigned integer values with UTF-8 encoded runes. - internal/ucd: Package ucd provides a parser for Unicode Character Database files the format of which is defined in <a href="http://www.unicode.org/reports/tr44/">http://www.unicode.org/reports/tr44/</a> . - language: Package	BSD-3-Clause			
python-pika-pool	python-pika-pool	"Pika connection pooling. - Python 2.7"	BSD MIT			

Package name	Source	Package Description	Package License	Encryption types	Encryption Max Key Length	Comment
python-mesos	mesos	"Python bindings for Mesos Apache Mesos is a cluster manager that provides efficient resource isolation and sharing across distributed applications or frameworks. It can run Hadoop MPI Hypertable Spark (a new framework for low-latency interactive and iterative jobs) and other applications."	GPL-2.0 GPL-3.0 BSD-3-Clause BSD MIT Public Domain Apache-2.0			
python-automaton	python-automaton	"friendly state machines - Python 2.7 Automaton is a friendly state machines for Python. This state machine can be used to automatically run a given set of transitions and states in response to events (either from callbacks or from generator/iterator send() values see PEP 342). On each triggered event a on_enter and on_exit callback can also be provided which will be called to perform some type of action on leaving a prior state and before entering a new state. . This package contains the Python 2.7 module."	Apache-2.0			
python3-gridfs	pymongo	"Python3 implementation of GridFS for MongoDB GridFS is a storage specification for large objects in MongoDB. The Python3 gridfs module is an implementation based on the pymongo module. It provides a file-like interface."	MIT Apache-2.0			
python-oslo-i18n-doc	python-oslo.i18n	"transitional dummy package for python-oslo-i18n-doc This transitional package to python-oslo.i18n-doc is safe to remove."	Apache-2.0			
python3-httplib2	python-httplib2	"comprehensive HTTP client library written for Python3 httplib2.py supports many features left out of other HTTP libraries. * HTTP and HTTPS * Keep-Alive * Authentication * Caching * All Methods * Redirects * Compression * Lost update support * Unit Tested . This package provides module for python3 series."	GPL-2.0+ GPL-2.0 GPL-3.0 LGPL-2.1 BSD-3-Clause MIT			
libohai-ruby1.8	ohai	"Transitional package for ohai This is a transitional package to ease upgrades to the ohai package. It can safely be removed."	Apache-2.0			
python-oslo-utils-doc	python-oslo.utils	"transitional dummy package for python-oslo-utils-doc This transitional package to python-oslo.utils-doc is safe to remove."	Apache-2.0			
mysql-client-core-5.6	mysql-wsrep-5.6	"MySQL database core client binaries MySQL is a fast stable and true multi-user multi-threaded SQL database server. SQL (Structured Query Language) is the most popular database query language in the world. The main goals of MySQL are speed robustness and ease of use. . This package includes the core client files as used by Akonadi."	GPL-2.0+ GPL-2.0 LGPL-2.0 BSD-3-Clause BSD MIT Public Domain ISC			
libcfg-dev	corosync	"Standards-based cluster framework Cfg devel files Corosync is a project to implement a production quality "Revised BSD" licensed implementation of all core functionalities required by openais. The project implements cutting edge research on virtual synchrony to provide 100% correct operation in the face of failures or partitionable networks with excellent performance characteristics. . The Application Interface Specification is a software API and policies which are used to develop applications that maintain service during faults. . This package contains the devel files of Cfg a library which is part of Corosync."	Public Domain			
python3-bson-ext	pymongo	"C-coded extension to the python3-bson package BSON Python 3 module contains all of the Binary JSON encoding and decoding logic for MongoDB. This package contains an extension written in C for higher performance."	MIT Apache-2.0			

Package name	Source	Package Description	Package License	Encryption types	Encryption Max Key Length	Comment
python-glance-store-doc	python-glance-store	"OpenStack Image Service store library - doc The Glance project provides services for discovering registering and retrieving virtual machine images over the cloud. They may be stand-alone services or may be used to deliver images from object stores such as OpenStack's Swift service to Nova's compute nodes. . This package contains the documentation."	Apache-2.0			
golang-doc	golang	"Go programming language - documentation The Go programming language is an open source project to make programmers more productive. Go is expressive concise clean and efficient. Its concurrency mechanisms make it easy to write programs that get the most out of multicore and networked machines while its novel type system enables flexible and modular program construction. Go compiles quickly to machine code yet has the convenience of garbage collection and the power of run-time reflection. It's a fast statically typed compiled language that feels like a dynamically typed interpreted language. . This package provides the documentation for the Go programming language. You can view the formatted documentation by running "godoc --http=:6060" and then visiting http://localhost:6060/doc/install.html."	Public Domain Apache-2.0	aes	256	
golang-doc	golang	"Go programming language - documentation The Go programming language is an open source project to make programmers more productive. Go is expressive concise clean and efficient. Its concurrency mechanisms make it easy to write programs that get the most out of multicore and networked machines while its novel type system enables flexible and modular program construction. Go compiles quickly to machine code yet has the convenience of garbage collection and the power of run-time reflection. It's a fast statically typed compiled language that feels like a dynamically typed interpreted language. . This package provides the documentation for the Go programming language. You can view the formatted documentation by running "godoc --http=:6060" and then visiting http://localhost:6060/doc/install.html."	Public Domain Apache-2.0	rc4	2048	
golang-doc	golang	"Go programming language - documentation The Go programming language is an open source project to make programmers more productive. Go is expressive concise clean and efficient. Its concurrency mechanisms make it easy to write programs that get the most out of multicore and networked machines while its novel type system enables flexible and modular program construction. Go compiles quickly to machine code yet has the convenience of garbage collection and the power of run-time reflection. It's a fast statically typed compiled language that feels like a dynamically typed interpreted language. . This package provides the documentation for the Go programming language. You can view the formatted documentation by running "godoc --http=:6060" and then visiting http://localhost:6060/doc/install.html."	Public Domain Apache-2.0	crypt	65	

Package name	Source	Package Description	Package License	Encryption types	Encryption Max Key Length	Comment
golang-doc	golang	"Go programming language - documentation The Go programming language is an open source project to make programmers more productive. Go is expressive concise clean and efficient. Its concurrency mechanisms make it easy to write programs that get the most out of multicore and networked machines while its novel type system enables flexible and modular program construction. Go compiles quickly to machine code yet has the convenience of garbage collection and the power of run-time reflection. It's a fast statically typed compiled language that feels like a dynamically typed interpreted language. . This package provides the documentation for the Go programming language. You can view the formatted documentation by running "godoc --http=:6060" and then visiting http://localhost:6060/doc/install.html."	Public Domain Apache-2.0	des	56	
golang-doc	golang	"Go programming language - documentation The Go programming language is an open source project to make programmers more productive. Go is expressive concise clean and efficient. Its concurrency mechanisms make it easy to write programs that get the most out of multicore and networked machines while its novel type system enables flexible and modular program construction. Go compiles quickly to machine code yet has the convenience of garbage collection and the power of run-time reflection. It's a fast statically typed compiled language that feels like a dynamically typed interpreted language. . This package provides the documentation for the Go programming language. You can view the formatted documentation by running "godoc --http=:6060" and then visiting http://localhost:6060/doc/install.html."	Public Domain Apache-2.0	rsa	unlimited	typically <=8192
golang-doc	golang	"Go programming language - documentation The Go programming language is an open source project to make programmers more productive. Go is expressive concise clean and efficient. Its concurrency mechanisms make it easy to write programs that get the most out of multicore and networked machines while its novel type system enables flexible and modular program construction. Go compiles quickly to machine code yet has the convenience of garbage collection and the power of run-time reflection. It's a fast statically typed compiled language that feels like a dynamically typed interpreted language. . This package provides the documentation for the Go programming language. You can view the formatted documentation by running "godoc --http=:6060" and then visiting http://localhost:6060/doc/install.html."	Public Domain Apache-2.0	shacal	User Specified	
golang-doc	golang	"Go programming language - documentation The Go programming language is an open source project to make programmers more productive. Go is expressive concise clean and efficient. Its concurrency mechanisms make it easy to write programs that get the most out of multicore and networked machines while its novel type system enables flexible and modular program construction. Go compiles quickly to machine code yet has the convenience of garbage collection and the power of run-time reflection. It's a fast statically typed compiled language that feels like a dynamically typed interpreted language. . This package provides the documentation for the Go programming language. You can view the formatted documentation by running "godoc --http=:6060" and then visiting http://localhost:6060/doc/install.html."	Public Domain Apache-2.0	sha	512	

Package name	Source	Package Description	Package License	Encryption types	Encryption Max Key Length	Comment
golang-doc	golang	"Go programming language - documentation The Go programming language is an open source project to make programmers more productive. Go is expressive concise clean and efficient. Its concurrency mechanisms make it easy to write programs that get the most out of multicore and networked machines while its novel type system enables flexible and modular program construction. Go compiles quickly to machine code yet has the convenience of garbage collection and the power of run-time reflection. It's a fast statically typed compiled language that feels like a dynamically typed interpreted language. . This package provides the documentation for the Go programming language. You can view the formatted documentation by running "godoc --http=:6060" and then visiting http://localhost:6060/doc/install.html."	Public Domain Apache-2.0	lex	128	
golang-doc	golang	"Go programming language - documentation The Go programming language is an open source project to make programmers more productive. Go is expressive concise clean and efficient. Its concurrency mechanisms make it easy to write programs that get the most out of multicore and networked machines while its novel type system enables flexible and modular program construction. Go compiles quickly to machine code yet has the convenience of garbage collection and the power of run-time reflection. It's a fast statically typed compiled language that feels like a dynamically typed interpreted language. . This package provides the documentation for the Go programming language. You can view the formatted documentation by running "godoc --http=:6060" and then visiting http://localhost:6060/doc/install.html."	Public Domain Apache-2.0	hmac	160	
golang-doc	golang	"Go programming language - documentation The Go programming language is an open source project to make programmers more productive. Go is expressive concise clean and efficient. Its concurrency mechanisms make it easy to write programs that get the most out of multicore and networked machines while its novel type system enables flexible and modular program construction. Go compiles quickly to machine code yet has the convenience of garbage collection and the power of run-time reflection. It's a fast statically typed compiled language that feels like a dynamically typed interpreted language. . This package provides the documentation for the Go programming language. You can view the formatted documentation by running "godoc --http=:6060" and then visiting http://localhost:6060/doc/install.html."	Public Domain Apache-2.0	md5	128	
ruby-deep-merge	ruby-deep-merge	"Deep Merge is a simple set of utility functions for Hash. It permits you to merge elements inside a hash together recursively."	MIT			

Package name	Source	Package Description	Package License	Encryption types	Encryption Max Key Length	Comment
swift-drive-audit	swift	"distributed virtual object store - drive audit OpenStack Object Storage (code-named Swift) creates redundant scalable object storage using clusters of standardized servers to store petabytes of accessible data. It is not a file system or real-time data storage system but rather a long-term storage system for a more permanent type of static data that can be retrieved leveraged and then updated if necessary. Primary examples of data that best fit this type of storage model are virtual machine images photo storage email storage and backup archiving. Having no central "brain" or master point of control provides greater scalability redundancy and permanence. . Objects are written to multiple hardware devices in the data center with the OpenStack software responsible for ensuring data replication and integrity across the cluster. Storage clusters can scale horizontally by adding new nodes. Should a node fail OpenStack works to replicate its content from other active nodes. Because OpenStack uses software logic to ensure data replication and distribution across different devices inexpensive commodity hard drives and servers can be used in lieu of more expensive equipment. . This package provides the swift drive audit tool."	Apache-2.0			
mistral-api	mistral	"OpenStack Workflow service - API Mistral is a workflow service. Most business processes consist of multiple distinct interconnected steps that need to be executed in a particular order in a distributed environment. One can describe such process as a set of tasks and task relations and upload such description to Mistral so that it takes care of state management correct execution order parallelism synchronization and high availability. Mistral also provides flexible task scheduling so that it can run a process according to a specified schedule (i.e. every Sunday at 4.00pm) instead of running it immediately. Such set of tasks and relations between them is called a workflow. . This package contains the API server."	Apache-2.0			
python3-py	python-py	"Advanced Python development support library (Python 3) The Codespeak py lib aims at supporting a decent Python development process addressing deployment versioning and documentation perspectives. It includes: . * py.path: path abstractions over local and Subversion files * py.code: dynamic code compile and traceback printing support . This package provides the Python 3 modules."	Unknown			
python3-bintrees	python-bintrees	"provides Binary- RedBlack- and AVL-Trees written in Python and Cython/C. - Python 3.x Bundled Classes are much slower than the built-in dict class but all iterators/generators yielding data in sorted key order. Trees can be used as drop in replacement for dicts in most cases. . Trees written in Python: BinaryTree ? unbalanced binary tree AVLTree ? balanced AVL-Tree RBTTree ? balanced Red-Black-Tree . Trees written with C-Functions and Cython as wrapper: FastBinaryTree ? unbalanced binary tree FastAVLTree ? balanced AVL-Tree FastRBTTree ? balanced Red-Black-Tree . This package contains the Python 3.x module."	MIT			
python-tz	python-tz	"Python version of the Olson timezone database python-tz brings the Olson tz database into Python. This library allows accurate and cross platform timezone calculations using Python 2.3 or higher. It also solves the issue of ambiguous times at the end of daylight savings which you can read more about in the Python Library Reference (datetime.tzinfo)."	Unknown			

Package name	Source	Package Description	Package License	Encryption types	Encryption Max Key Length	Comment
python3-wsme	python-wsme	"Web Services Made Easy: implement multi-protocol webservices - Python 3.x Web Service Made Easy (WSME) simplify the writing of REST web services by providing simple yet powerful typing which removes the need to directly manipulate the request and the response objects. . WSME can work standalone or on top of your favorite Python web (micro) framework so you can use both your preferred way of routing your REST requests and most of the features of WSME that rely on the typing system like: . * Alternate protocols including ones supporting batch-calls * Easy documentation through a Sphinx extension . WSME is originally a rewrite of TGWebServices with focus on extensibility framework-independance and better type handling. . This package provides the Python 3.x module."	Unknown			
dh-systemd	init-system-helpers	"debhelper add-on to handle systemd unit files dh-systemd provides a debhelper sequence addon named 'systemd' and the dh_systemd_enable/dh_systemd_start commands. . The dh_systemd_enable command adds the appropriate code to the postinst prerm and postrm maint scripts to properly enable/disable systemd service files. The dh_systemd_start command deals with start/stop/restart on upgrades for systemd-only service files."	BSD			
python-openssl	pyopenssl	"Python 2 wrapper around the OpenSSL library High-level wrapper around a subset of the OpenSSL library includes . * SSL.Connection objects wrapping the methods of Python's portable sockets * Callbacks written in Python * Extensive error-handling mechanism mirroring OpenSSL's error codes . A lot of the object methods do nothing more than calling a corresponding function in the OpenSSL library."	Public Domain Apache-2.0			
libnl-idiag-3-200	libnl3	"library for dealing with netlink sockets - inetdiag interface This is a library for applications dealing with netlink sockets. The library provides an interface for raw netlink messaging and various netlink family specific interfaces. . API to the inetdiag netlink protocol handling inetdiag requests"	GPL-2.0 LGPL-2.1			
python3-uritemplate	python-uritemplate	"implementation of RFC6570 - Python 3.x python-uritemplate implements RFC6570. URI Template can expand templates up to and including Level 4 in that specification. It exposes one method "expand". . This package provides the Python 3.x module."	Apache-2.0			
python3-linecache2	python-linecache2	"backports of the linecache module - Python 3.x A backport of linecache to older supported Pythons. Typically the user of this module would do "import linecache2 as linecache" and use the linecache module normally. . This package contains the Python 3.x module."	Unknown			
libnl-3-200-dbg	libnl3	"debug symbols for libnl3 This is a library for applications dealing with netlink sockets. The library provides an interface for raw netlink messaging and various netlink family specific interfaces. . This package contains unstripped shared libraries. It is provided primarily to provide a backtrace with names in a debugger this makes it somewhat easier to interpret core dumps. The libraries are installed in /usr/lib/debug and are automatically used by gdb."	GPL-2.0 LGPL-2.1			
erlang-mnesia	erlang	"Erlang/OTP distributed relational/object hybrid database Mnesia is a distributed Database Management System (DBMS) appropriate for telecommunications applications and other Erlang applications which require continuous operation and exhibit soft real-time properties."	LGPL-2.1 Apache-2.0	aes	256	



Package name	Source	Package Description	Package License	Encryption types	Encryption Max Key Length	Comment
erlang-mnesia	erlang	"Erlang/OTP distributed relational/object hybrid database Mnesia is a distributed Database Management System (DBMS) appropriate for telecommunications applications and other Erlang applications which require continuous operation and exhibit soft real-time properties."	LGPL-2.1 Apache-2.0	diffiehellman	unlimited	
erlang-mnesia	erlang	"Erlang/OTP distributed relational/object hybrid database Mnesia is a distributed Database Management System (DBMS) appropriate for telecommunications applications and other Erlang applications which require continuous operation and exhibit soft real-time properties."	LGPL-2.1 Apache-2.0	blowfish	448	
erlang-mnesia	erlang	"Erlang/OTP distributed relational/object hybrid database Mnesia is a distributed Database Management System (DBMS) appropriate for telecommunications applications and other Erlang applications which require continuous operation and exhibit soft real-time properties."	LGPL-2.1 Apache-2.0	sha	512	
erlang-mnesia	erlang	"Erlang/OTP distributed relational/object hybrid database Mnesia is a distributed Database Management System (DBMS) appropriate for telecommunications applications and other Erlang applications which require continuous operation and exhibit soft real-time properties."	LGPL-2.1 Apache-2.0	hmac	160	
erlang-mnesia	erlang	"Erlang/OTP distributed relational/object hybrid database Mnesia is a distributed Database Management System (DBMS) appropriate for telecommunications applications and other Erlang applications which require continuous operation and exhibit soft real-time properties."	LGPL-2.1 Apache-2.0	md5	128	
liberasurecode-dev	liberasurecode	"support of multiple erasure code backends - development files Liberasurecode is an erasure code library which can support multiple erasure code 'backends'. The repository includes a Jerasure for Reed-Solomon implementation. . This package contains the development files needed to build against the shared library."	Unknown	md5	128	
python3-oslo-serialization	python-oslo.serialization	"transitional dummy package for python3-oslo-serialization This transitional package is safe to remove and use python3-oslo.serialization instead."	Apache-2.0			
ceph-common-dbg	ceph	"debugging symbols for ceph-common Ceph is a distributed storage and file system designed to provide excellent performance reliability and scalability. This is a collection of common tools that allow one to interact with and administer a Ceph cluster. . This package contains the debugging symbols for ceph-common."	GPL-2.0+ GPL-2.0 GPL-3.0 LGPL-2.0 LGPL-2.1 BSD-2-Clause BSD-3-Clause Public Domain Apache-2.0	crush	unlimited	cephhash
ceph-common-dbg	ceph	"debugging symbols for ceph-common Ceph is a distributed storage and file system designed to provide excellent performance reliability and scalability. This is a collection of common tools that allow one to interact with and administer a Ceph cluster. . This package contains the debugging symbols for ceph-common."	GPL-2.0+ GPL-2.0 GPL-3.0 LGPL-2.0 LGPL-2.1 BSD-2-Clause BSD-3-Clause Public Domain Apache-2.0	sha	512	
ceph-common-dbg	ceph	"debugging symbols for ceph-common Ceph is a distributed storage and file system designed to provide excellent performance reliability and scalability. This is a collection of common tools that allow one to interact with and administer a Ceph cluster. . This package contains the debugging symbols for ceph-common."	GPL-2.0+ GPL-2.0 GPL-3.0 LGPL-2.0 LGPL-2.1 BSD-2-Clause BSD-3-Clause Public Domain Apache-2.0	aes	256	
ceph-common-dbg	ceph	"debugging symbols for ceph-common Ceph is a distributed storage and file system designed to provide excellent performance reliability and scalability. This is a collection of common tools that allow one to interact with and administer a Ceph cluster. . This package contains the debugging symbols for ceph-common."	GPL-2.0+ GPL-2.0 GPL-3.0 LGPL-2.0 LGPL-2.1 BSD-2-Clause BSD-3-Clause Public Domain Apache-2.0	abacus	0	

Package name	Source	Package Description	Package License	Encryption types	Encryption Max Key Length	Comment
ceph-common-dbg	ceph	"debugging symbols for ceph-common Ceph is a distributed storage and file system designed to provide excellent performance reliability and scalability. This is a collection of common tools that allow one to interact with and administer a Ceph cluster. . This package contains the debugging symbols for ceph-common."	GPL-2.0+ GPL-2.0 GPL-3.0 LGPL-2.0 LGPL-2.1 BSD-2-Clause BSD-3-Clause Public Domain Apache-2.0	md5	128	
python3-httpretty	python-httpretty	"HTTP client mock - Python 3.x Once upon a time a Python developer wanted to use a RESTful API everything was fine but until the day he needed to test the code that hits the RESTful API: what if the API server is down? What if its content has changed ? . Don't worry HTTPretty is here for you. . This package provides the Python 3.x module."	MIT			
python-jingo-doc	python-jingo	"adapter for using Jinja2 templates with Django - doc Jingo is an adapter for using Jinja2 templates within Django. When configured properly you can render Jinja2 templates in your view the same way you'd render Django templates. . This package contains the documentation."	BSD-3-Clause			
libjs-d3	d3	"JavaScript visualization library for HTML and SVG JavaScript library for manipulating documents based on data. D3 helps you bring data to life using HTML SVG and CSS. D3's emphasis on web standards gives you the full capabilities of modern browsers without tying yourself to a proprietary framework combining powerful visualization components and a data-driven approach to DOM manipulation."	GPL-2.0+ GPL-2.0 BSD-3-Clause MIT Apache-2.0			
murano-doc	murano	"cloud-ready application catalog - doc Murano Project introduces an application catalog which allows application developers and cloud administrators to publish various cloud-ready applications in a browsable categorised catalog which may be used by the cloud users (including the inexperienced ones) to pick-up the needed applications and services and composes the reliable environments out of them in a "push-the-button" manner. . This package contains the documentation."	Apache-2.0			
python-daemon	python-daemon	"library for making a Unix daemon process ? Python 2 ?daemon? is a library that assists a Python program to turn itself into a well-behaved Unix daemon process as specified in PEP 3143. . This library provides a ?DaemonContext? class that manages the following important tasks for becoming a daemon process: . * Detach the process into its own process group. * Set process environment appropriate for running inside a chroot. * Renounce suid and sgid privileges. * Close all open file descriptors. * Change the working directory uid gid and umask. * Set appropriate signal handlers. * Open new file descriptors for stdin stdout and stderr. * Manage a specified PID lock file. * Register cleanup functions for at-exit processing. . This package installs the library for Python 2."	GPL-2.0+ GPL-2.0 GPL-3.0 Apache-2.0			
libsubunit-dev	subunit	"Unit testing protocol - Development headers and static library for libsubunit subunit is a protocol for test activity reporting. This permits executing tests remotely or saving the result of test runs for later introspection. . The libsubunit-dev package contains the C development headers pkgconfig data file and a static version of the library."	BSD-3-Clause Apache-2.0			

Package name	Source	Package Description	Package License	Encryption types	Encryption Max Key Length	Comment
libcorosync-dev	corosync	"Standards-based cluster framework (transitional package) The corosync project is a project to implement a production quality "Revised BSD" licensed implementation of all core functionalities required by openais. The project implements cutting edge research on virtual synchrony to provide 100% correct operation in the face of failures or partitionable networks with excellent performance characteristics. . The Application Interface Specification is a software API and policies which are used to develop applications that maintain service during faults. . This package used to contain the Corosync development files and remains as a transitional package to pull the real files in."	Public Domain			
python-psycopg2-dbg	psycopg2	"Python module for PostgreSQL (debug extension) psycopg is a PostgreSQL database adapter for the Python programming language (just like pygresql and popy.) This is version 2 a complete rewrite of the original code to provide new-style classes for connection and cursor objects and other sweet candies. Like the original psycopg 2 was written with the aim of being very small and fast and stable as a rock. . This package contains the extensions built for the Python debug interpreter."	unknown			
python-oslosphinx	oslo-sphinx	"theme and extension support for openstack Theme and extension support for Sphinx documentation from the OpenStack project. To use the theme simply add 'oslosphinx' to the extensions list in the conf.py file in your Sphinx project."	BSD-2-Clause Apache-2.0			
python-xstatic-smart-table	python-xstatic-smart-table	"AngularJS smart-table (XStatic packaging standard) - Python 2.x XStatic is a Python web development tool for handling required static data files from external projects such as CSS images and JavaScript. It provides a lightweight infrastructure to manage them via Python modules that your app can depend on in a portable virtualenv-friendly way instead of using embedded copies. . This package contains the Python 2.x module for supporting the smart-table javascript library."	Apache-2.0			
python-nova	nova	"OpenStack Compute - libraries OpenStack is a reliable cloud infrastructure. Its mission is to produce the ubiquitous cloud computing platform that will meet the needs of public and private cloud providers regardless of size by being simple to implement and massively scalable. . OpenStack Compute codenamed Nova is a cloud computing fabric controller designed to be modular and easy to extend and adapt. In addition to its "native" OpenStack API it also supports the Amazon EC2 API and it supports many different database backends (including SQLite MySQL and PostgreSQL) hypervisors (KVM Xen) and user directory systems (LDAP SQL). . This package contains the core Python parts of Nova."	Apache-2.0			
resource-agents	resource-agents	"Cluster Resource Agents The Cluster Resource Agents are a set of scripts to interface with several services to operate in a High Availability environment for both Pacemaker and rgmanager resource managers."	GPL-2.0+ GPL-2.0 GPL-3.0 LGPL-3.0			
python-oslo.serialization	python-oslo.serialization	"utilities for serialization especially JSON - Python 2.x The oslo.serialization library contain utilities for working with serialization features especially working with JSON. . This package contains the Python 2.x module."	Apache-2.0			

Package name	Source	Package Description	Package License	Encryption types	Encryption Max Key Length	Comment
python3-requests	requests	"elegant and simple HTTP library for Python3 built for human beings Requests allow you to send HTTP/1.1 requests. You can add headers form data multipart files and parameters with simple Python dictionaries and access the response data in the same way. It's powered by httplib and urllib3 but it does all the hard work and crazy hacks for you. . Features . - International Domains and URLs - Keep-Alive & Connection Pooling - Sessions with Cookie Persistence - Browser-style SSL Verification - Basic/Digest Authentication - Elegant Key/Value Cookies - Automatic Decompression - Unicode Response Bodies - Multipart File Uploads - Connection Timeouts . This package contains the Python 3 version of the library."	GPL-2.0 LGPL-2.1 Apache-2.0			
python3-kazoo	kazoo	"higher level API to Apache Zookeeper (Python 3) Kazoo features: . * A wide range of recipe implementations like Lock Election or Queue * Data and Children Watchers * Simplified Zookeeper connection state tracking * Unified asynchronous API for use with greenlets or threads * Support for gevent 0.13 and gevent 1.0 * Support for Zookeeper 3.3 and 3.4 servers * Integrated testing helpers for Zookeeper clusters * Pure-Python based implementation of the wire protocol avoiding all the memory leaks lacking features and debugging madness of the C library . Kazoo is heavily inspired by Netflix Curator simplifications and helpers. . This is the Python 3 version of the package."	Apache-2.0			
ironic-fa-bootstrap-configs	fuel-agent	"Ironic bootstrap config files"	Apache-2.0			
python-oslo.utils	python-oslo.utils	"set of utility functions for OpenStack - Python 2.x The Oslo.utils package provides a set of function which are cross-project for OpenStack. For example it provides text decoding exception handling Python module import facility (try_import function) network-related system-level and time utilities and helper functions. . This package contains the Python 2.x module."	Apache-2.0			
python-pil.imagetk	pillow	"Python Imaging Library - ImageTk Module (Pillow fork) Tk dependent python-pil module."	Unknown			
python-ceilometermiddleware	python-ceilometermiddleware	"OpenStack Telemetry middleware for generating metrics - Python 2.x This library provides middleware modules designed to enable metric and event data generation to be consumed by Ceilometer. . This package contains the Python 2.x module."	Apache-2.0			
golang	golang	"Go programming language compiler - metapackage The Go programming language is an open source project to make programmers more productive. Go is expressive concise clean and efficient. Its concurrency mechanisms make it easy to write programs that get the most out of multicore and networked machines while its novel type system enables flexible and modular program construction. Go compiles quickly to machine code yet has the convenience of garbage collection and the power of run-time reflection. It's a fast statically typed compiled language that feels like a dynamically typed interpreted language. . This package is a metapackage that when installed guarantees that (most of) a full Go development environment is installed."	Public Domain Apache-2.0	aes	256	

Package name	Source	Package Description	Package License	Encryption types	Encryption Max Key Length	Comment
golang	golang	"Go programming language compiler - metapackage The Go programming language is an open source project to make programmers more productive. Go is expressive concise clean and efficient. Its concurrency mechanisms make it easy to write programs that get the most out of multicore and networked machines while its novel type system enables flexible and modular program construction. Go compiles quickly to machine code yet has the convenience of garbage collection and the power of run-time reflection. It's a fast statically typed compiled language that feels like a dynamically typed interpreted language. . This package is a metapackage that when installed guarantees that (most of) a full Go development environment is installed."	Public Domain Apache-2.0	rc4	2048	
golang	golang	"Go programming language compiler - metapackage The Go programming language is an open source project to make programmers more productive. Go is expressive concise clean and efficient. Its concurrency mechanisms make it easy to write programs that get the most out of multicore and networked machines while its novel type system enables flexible and modular program construction. Go compiles quickly to machine code yet has the convenience of garbage collection and the power of run-time reflection. It's a fast statically typed compiled language that feels like a dynamically typed interpreted language. . This package is a metapackage that when installed guarantees that (most of) a full Go development environment is installed."	Public Domain Apache-2.0	crypt	65	
golang	golang	"Go programming language compiler - metapackage The Go programming language is an open source project to make programmers more productive. Go is expressive concise clean and efficient. Its concurrency mechanisms make it easy to write programs that get the most out of multicore and networked machines while its novel type system enables flexible and modular program construction. Go compiles quickly to machine code yet has the convenience of garbage collection and the power of run-time reflection. It's a fast statically typed compiled language that feels like a dynamically typed interpreted language. . This package is a metapackage that when installed guarantees that (most of) a full Go development environment is installed."	Public Domain Apache-2.0	des	56	
golang	golang	"Go programming language compiler - metapackage The Go programming language is an open source project to make programmers more productive. Go is expressive concise clean and efficient. Its concurrency mechanisms make it easy to write programs that get the most out of multicore and networked machines while its novel type system enables flexible and modular program construction. Go compiles quickly to machine code yet has the convenience of garbage collection and the power of run-time reflection. It's a fast statically typed compiled language that feels like a dynamically typed interpreted language. . This package is a metapackage that when installed guarantees that (most of) a full Go development environment is installed."	Public Domain Apache-2.0	rsa	unlimited	typically <=8192

Package name	Source	Package Description	Package License	Encryption types	Encryption Max Key Length	Comment
golang	golang	"Go programming language compiler - metapackage The Go programming language is an open source project to make programmers more productive. Go is expressive concise clean and efficient. Its concurrency mechanisms make it easy to write programs that get the most out of multicore and networked machines while its novel type system enables flexible and modular program construction. Go compiles quickly to machine code yet has the convenience of garbage collection and the power of run-time reflection. It's a fast statically typed compiled language that feels like a dynamically typed interpreted language. . This package is a metapackage that when installed guarantees that (most of) a full Go development environment is installed."	Public Domain Apache-2.0	shacal	User Specified	
golang	golang	"Go programming language compiler - metapackage The Go programming language is an open source project to make programmers more productive. Go is expressive concise clean and efficient. Its concurrency mechanisms make it easy to write programs that get the most out of multicore and networked machines while its novel type system enables flexible and modular program construction. Go compiles quickly to machine code yet has the convenience of garbage collection and the power of run-time reflection. It's a fast statically typed compiled language that feels like a dynamically typed interpreted language. . This package is a metapackage that when installed guarantees that (most of) a full Go development environment is installed."	Public Domain Apache-2.0	sha	512	
golang	golang	"Go programming language compiler - metapackage The Go programming language is an open source project to make programmers more productive. Go is expressive concise clean and efficient. Its concurrency mechanisms make it easy to write programs that get the most out of multicore and networked machines while its novel type system enables flexible and modular program construction. Go compiles quickly to machine code yet has the convenience of garbage collection and the power of run-time reflection. It's a fast statically typed compiled language that feels like a dynamically typed interpreted language. . This package is a metapackage that when installed guarantees that (most of) a full Go development environment is installed."	Public Domain Apache-2.0	lex	128	
golang	golang	"Go programming language compiler - metapackage The Go programming language is an open source project to make programmers more productive. Go is expressive concise clean and efficient. Its concurrency mechanisms make it easy to write programs that get the most out of multicore and networked machines while its novel type system enables flexible and modular program construction. Go compiles quickly to machine code yet has the convenience of garbage collection and the power of run-time reflection. It's a fast statically typed compiled language that feels like a dynamically typed interpreted language. . This package is a metapackage that when installed guarantees that (most of) a full Go development environment is installed."	Public Domain Apache-2.0	hmac	160	

Package name	Source	Package Description	Package License	Encryption types	Encryption Max Key Length	Comment
golang	golang	"Go programming language compiler - metapackage The Go programming language is an open source project to make programmers more productive. Go is expressive concise clean and efficient. Its concurrency mechanisms make it easy to write programs that get the most out of multicore and networked machines while its novel type system enables flexible and modular program construction. Go compiles quickly to machine code yet has the convenience of garbage collection and the power of run-time reflection. It's a fast statically typed compiled language that feels like a dynamically typed interpreted language. . This package is a metapackage that when installed guarantees that (most of) a full Go development environment is installed."	Public Domain Apache-2.0	md5	128	
python-django-horizon	horizon	"Django module providing web interaction with OpenStack The OpenStack Dashboard is a web application to control an OpenStack cloud. It connects to OpenStack services such as Nova Swift or Keystone using the OpenStack REST API just as you would with the command line clients. . Horizon is a Django module that permits interaction with an OpenStack cloud. It can be used to build a dashboard to control an OpenStack cloud."	Apache-2.0			
python-django-appconf-doc	python-django-appconf	"helper class handling configuration defaults of apps - doc Say you have an app with a few defaults which you want to refer to in the app's code without repeating yourself all the time. Django-appconf provides a simple helper class to implement those defaults. . This package contains the documentation."	BSD-3-Clause			
python-keystonemiddleware-doc	python-keystonemiddleware	"Middleware for OpenStack Identity (Keystone) - doc This package contains middleware modules designed to provide authentication and authorization features to web services other than Keystone. The most prominent module is keystonemiddleware.auth_token. This package does not expose any CLI or Python API features. . This package contains the documentation."	Apache-2.0			
python-oslosphinx-doc	oslo-sphinx	"theme and extension support for openstack Theme and extension support for Sphinx documentation from the OpenStack project. To use the theme simply add 'oslosphinx' to the extensions list in the conf.py file in your Sphinx project. . This package contains the documentation."	BSD-2-Clause Apache-2.0			
heat-doc	heat	"OpenStack orchestration service - Documentation Heat is a service to orchestrate multiple composite cloud applications using templates through both an OpenStack-native ReST API and a CloudFormation-compatible Query API. . This package contains the documentation."	Apache-2.0			
python-pyinotify	pyinotify	"simple Linux inotify Python bindings pyinotify is a simple wrapper for the Linux inotify mechanism. . inotify is a Linux Kernel feature available since 2.6.13. inotify makes it possible for applications to easily be notified of filesystem changes."	GPL-2.0			
python3-fasteners	python-fasteners	"provides useful locks - Python 3.x Fasteners is a Python package that provides useful locks. It includes locking decorator (that acquires instance objects lock(s) acquires on method entry and releases on method exit) reader-writer locks inter-process locks and generic lock helpers. . This package contains the Python 3.x module."	Apache-2.0			

Package name	Source	Package Description	Package License	Encryption types	Encryption Max Key Length	Comment
libjs-angularjs	<a href="https://angularjs.org/">angular.js</a>	"lets you write client-side web applications as if you had a smarter browser. It lets you use good old HTML (or HAML, Jade and friends) as your template language and lets you extend HTML's syntax to express your application's components clearly and succinctly. It automatically synchronizes data from your UI (view) with your JavaScript objects (model) through 2-way data binding. To help you structure your application better and make it easy to test, AngularJS teaches the browser how to do dependency injection and inversion of control. It also helps with server-side communication, taming async callbacks with promises and deferreds; and make client-side navigation and deeplinking with hashbang urls or HTML5 pushState a piece of cake."	GPL-2.0+ GPL-2.0 MIT Apache-2.0			
python-mock	python-mock	"Mocking and Testing Library. mock provides a core Mock class that is intended to reduce the need to create a host of trivial stubs throughout your test suite. After performing an action you can make assertions about which methods / attributes were used and arguments they were called with. You can also specify return values and set specific attributes in the normal way."	BSD-3-Clause			
python-xstatic-bootstrap-scss	python-xstatic-bootstrap-scss	"Bootstrap-SCSS XStatic support - Python 2.x. XStatic is a Python web development tool for handling required static data files from external projects such as CSS, images and JavaScript. It provides a lightweight infrastructure to manage them via Python modules that your app can depend on in a portable, virtualenv-friendly way instead of using embedded copies. . This package contains the Python 2.x module support for Bootstrap-SCSS."	Unknown			
libjs-bootstrap	libjs-bootstrap	"themes for Twitter Bootstrap. Bootswatch is a collection of free themes for Bootstrap. Each theme consists of two LESS files, variables.less which is included by default in Bootstrap, allows you to customize these settings. bootswatch.less introduces more extensive structural changes."	Unknown			
python3-castellan	python-castellan	"generic key manager interface for OpenStack - Python 3.x. The Castellan module provides a generic key manager interface so that OpenStack projects can use Barbican but also have the flexibility to choose an alternative Key Manager as needed. This is helpful during development for example where a simple implementation of the Key Manager Interface can be used instead of having to spin up a Barbican instance. . This package contains the Python 3.x module."	Apache-2.0			
python-pytest-doc	pytest	"Simple, powerful testing in Python - Documentation. This testing tool has for objective to allow the developers to limit the boilerplate code around the tests, promoting the use of built-in mechanisms such as the `assert` keyword. . This package contains the documentation for pytest."	BSD-3-Clause			
python-subunit	subunit	"unit testing protocol - Python bindings to generate and consume streams. subunit is a protocol for test activity serialisation/deserialisation. This permits executing tests remotely or saving the result of test runs for later introspection. . The python-subunit package includes the Python language bindings."	BSD-3-Clause Apache-2.0			



Package name	Source	Package Description	Package License	Encryption types	Encryption Max Key Length	Comment
python-appconf-doc	python-django-appconf	"helper class handling configuration defaults of apps - transition package Say you have an app with a few defaults which you want to refer to in the app's code without repeating yourself all the time. Django-appconf provides a simple helper class to implement those defaults. . This is a transitional package to upgrade to python-django-appconf-doc and it is safe to remove."	BSD-3-Clause			
libohai-ruby	ohai	"Transitional package for ohai This is a transitional package to ease upgrades to the ohai package. It can safely be removed."	Apache-2.0			
python-kazoo	kazoo	"higher level API to Apache Zookeeper (Python 2) Kazoo features: . * A wide range of recipe implementations like Lock Election or Queue * Data and Children Watchers * Simplified Zookeeper connection state tracking * Unified asynchronous API for use with greenlets or threads * Support for gevent 0.13 and gevent 1.0 * Support for Zookeeper 3.3 and 3.4 servers * Integrated testing helpers for Zookeeper clusters * Pure-Python based implementation of the wire protocol avoiding all the memory leaks lacking features and debugging madness of the C library . Kazoo is heavily inspired by Netflix Curator simplifications and helpers. . This is the Python 2 version of the package."	Apache-2.0			
python-django	python-django	"High-level Python web development framework (Python 2 version) Django is a high-level web application framework that loosely follows the model-view-controller design pattern. . Python's equivalent to Ruby on Rails Django lets you build complex data-driven websites quickly and easily - Django focuses on automating as much as possible and adhering to the "Don't Repeat Yourself" (DRY) principle. . Django additionally emphasizes reusability and "pluggability" of components; many generic third-party "applications" are available to enhance projects or to simply to reduce development time even further. . Notable features include: * An object-relational mapper (ORM) * Automatic admin interface * Elegant URL dispatcher * Form serialization and validation system * Templating system * Lightweight standalone web server for development and testing * Internationalization support * Testing framework and client . This package is built for Python 2."	BSD-2-Clause BSD-3-Clause Apache-2.0			
heat-docker	heat	"OpenStack orchestration service docker resource Heat is a service to orchestrate multiple composite cloud applications using templates through both an OpenStack-native ReST API and a CloudFormation-compatible Query API. . This package contains the heat engine docker resource."	Apache-2.0			
python3-toml	python-toml	"library for Tom's Obvious Minimal Language - Python 3.x This package provides a Python module which parses and emits TOML. TOML aims to be a minimal configuration file format that's easy to read due to obvious semantics. TOML is designed to map unambiguously to a hash table. TOML should be easy to parse into data structures in a wide variety of languages. . This package contains the Python 3.x module."	Unknown			

Package name	Source	Package Description	Package License	Encryption types	Encryption Max Key Length	Comment
libquorum5	corosync	"Standards-based cluster framework Quorum library Corosync is a project to implement a production quality "Revised BSD" licensed implementation of all core functionalities required by openais. The project implements cutting edge research on virtual synchrony to provide 100% correct operation in the face of failures or partitionable networks with excellent performance characteristics. . The Application Interface Specification is a software API and policies which are used to develop applications that maintain service during faults. . This package contains the Quorum library which is a library included in Corosync."	Public Domain			
python3-markupsafe-dbg	markupsafe	"HTML/XHTML/XML string library for Python 3 - debug version MarkupSafe is a Python library implementing a unicode subclass that is aware of HTML escaping rules. It can be used to implement automatic string escaping. . This package contains the extension built for the Python 3 debug interpreter."	unknown			
python3-pyev	python-pyev	"Python libev interface. - Python 3.x libev is an event loop you register interest in certain events (such as a file descriptor being readable or a timeout occurring) and it will manage these event sources and provide your program with events. . This package contains the Python 3.x module."	MIT			
libcephfs-jni	ceph	"Java Native Interface library for CephFS Java bindings Ceph is a distributed storage system designed to provide excellent performance reliability and scalability. . This package contains the Java Native Interface library for interacting with the Ceph File System."	GPL-2.0+ GPL-2.0 GPL-3.0 LGPL-2.0 LGPL-2.1 BSD-2-Clause BSD-3-Clause Public Domain Apache-2.0	crush	unlimited	cephhash
libcephfs-jni	ceph	"Java Native Interface library for CephFS Java bindings Ceph is a distributed storage system designed to provide excellent performance reliability and scalability. . This package contains the Java Native Interface library for interacting with the Ceph File System."	GPL-2.0+ GPL-2.0 GPL-3.0 LGPL-2.0 LGPL-2.1 BSD-2-Clause BSD-3-Clause Public Domain Apache-2.0	sha	512	
libcephfs-jni	ceph	"Java Native Interface library for CephFS Java bindings Ceph is a distributed storage system designed to provide excellent performance reliability and scalability. . This package contains the Java Native Interface library for interacting with the Ceph File System."	GPL-2.0+ GPL-2.0 GPL-3.0 LGPL-2.0 LGPL-2.1 BSD-2-Clause BSD-3-Clause Public Domain Apache-2.0	aes	256	
libcephfs-jni	ceph	"Java Native Interface library for CephFS Java bindings Ceph is a distributed storage system designed to provide excellent performance reliability and scalability. . This package contains the Java Native Interface library for interacting with the Ceph File System."	GPL-2.0+ GPL-2.0 GPL-3.0 LGPL-2.0 LGPL-2.1 BSD-2-Clause BSD-3-Clause Public Domain Apache-2.0	abacus	0	
libcephfs-jni	ceph	"Java Native Interface library for CephFS Java bindings Ceph is a distributed storage system designed to provide excellent performance reliability and scalability. . This package contains the Java Native Interface library for interacting with the Ceph File System."	GPL-2.0+ GPL-2.0 GPL-3.0 LGPL-2.0 LGPL-2.1 BSD-2-Clause BSD-3-Clause Public Domain Apache-2.0	md5	128	
python3-eventlet	python-eventlet	"concurrent networking library - Python 3.x Eventlet allows you to change how you run your code not how you write it. . It uses epoll or libevent for highly scalable non-blocking I/O. Coroutines ensure that the developer uses a blocking style of programming that is similar to threading but provide the benefits of non-blocking I/O. The event dispatch is implicit which means you can easily use Eventlet from the Python interpreter or as a small part of a larger application. . It's easy to get started using Eventlet and easy to convert existing applications to use it. Start off by looking at examples common design patterns and the list of the basic API primitives. . This package provides the Python 3.x module."	Apache-2.0			

Package name	Source	Package Description	Package License	Encryption types	Encryption Max Key Length	Comment
python-django-overextends	python-django-overextends	"reusable app providing circular template inheritance - Python 2.7 A Django reusable app providing the overextends template tag a drop-in replacement for Django's extends tag which allows you to use circular template inheritance. . The primary use-case for overextends is to simultaneously override and extend templates from other reusable apps in your own Django project. . This package contains the Python 2.7 module."	BSD-2-Clause			
golang-go.crypto-dev	golang-go.crypto	"Transitional package for golang-golang-x-crypto-dev This is a transitional package to ease upgrades to the golang-golang-x-crypto-dev package. It can safely be removed."	BSD-3-Clause	blowfish	448	
golang-go.crypto-dev	golang-go.crypto	"Transitional package for golang-golang-x-crypto-dev This is a transitional package to ease upgrades to the golang-golang-x-crypto-dev package. It can safely be removed."	BSD-3-Clause	ripemd	160	
golang-go.crypto-dev	golang-go.crypto	"Transitional package for golang-golang-x-crypto-dev This is a transitional package to ease upgrades to the golang-golang-x-crypto-dev package. It can safely be removed."	BSD-3-Clause	keccak	0	
golang-go.crypto-dev	golang-go.crypto	"Transitional package for golang-golang-x-crypto-dev This is a transitional package to ease upgrades to the golang-golang-x-crypto-dev package. It can safely be removed."	BSD-3-Clause	rc2	1024	
golang-go.crypto-dev	golang-go.crypto	"Transitional package for golang-golang-x-crypto-dev This is a transitional package to ease upgrades to the golang-golang-x-crypto-dev package. It can safely be removed."	BSD-3-Clause	cast	128	
golang-go.crypto-dev	golang-go.crypto	"Transitional package for golang-golang-x-crypto-dev This is a transitional package to ease upgrades to the golang-golang-x-crypto-dev package. It can safely be removed."	BSD-3-Clause	twofish	256	
python-zzzeeksphinx	zzzeeksphinx	"Zzzeek's Sphinx layout and utilities This layout is first and foremost pulled in for the SQLAlchemy documentation builds (and possibly other related projects) but is also usable as a standalone theme / utility set for any project. . Features include: . * uses Mako templates instead of Jinja for more programmatic capabilities inside of templates * layout includes an independently scrollable sidebar * unique (to Sphinx) ?contextual? sidebar contents that shows the current page in context with all sibling pages * modifications to autodoc which illustrate inherited classes bases method documentation illustrates if a method is only inherited from the base or overridden * ?dynamic base? feature that will under ReadTheDocs pull in optional .mako and .py files from the website of your choice that will serve as an alternate base template and a source of extra config setup respectively allowing the layout to be integrated into the layout of an external site when viewing on the web * ?viewsource? extension that can provide highlighted sourcecode to any Python file arbitrarily * SQLAlchemy-specific stuff like the [SQL] popups the dialect info directives * scss support using pycss"	Public Domain			
python3-zmq	pyzmq	"Python3 bindings for OMQ library Python bindings for OMQ. OMQ is a small fast and free software library that gives you message-passing concurrency for applications in most common languages. . The OMQ lightweight messaging kernel is a library which extends the standard socket interfaces with features traditionally provided by specialised messaging middleware products. OMQ sockets provide an abstraction of asynchronous message queues multiple messaging patterns message filtering (subscriptions) seamless access to multiple transport protocols and more. . This package contains the extension built for the Python3 interpreter."	LGPL-2.1 BSD-3-Clause Apache-2.0			

Package name	Source	Package Description	Package License	Encryption types	Encryption Max Key Length	Comment
python-ceilometermiddleware-doc	python-ceilometermiddle-ware	"OpenStack Telemetry middleware for generating metrics - doc This library provides middleware modules designed to enable metric and event data generation to be consumed by Ceilometer. . This package contains the documentation."	Apache-2.0			
python3-openstacksdk	python-openstacksdk	"SDK for building applications to work with OpenStack - Python 3.x The python-openstacksdk is a collection of libraries for building applications to work with OpenStack clouds. The project aims to provide a consistent and complete set of interactions with OpenStack's many services along with complete documentation examples and tools. . This SDK is under active development and in the interests of providing a high-quality interface the APIs provided in this release may differ from those provided in future release. . This package contains the Python 3.x module."	Apache-2.0			
fuel-mirror	fuel-mirror	"Utility to create RPM and DEB mirror Provides two commands fuel-mirror and fuel-createmirror. Second one is for backward compatibility with the previous generation of the utility. These commands could be used to create local copies of MOS and upstream deb and rpm repositories."	GPL-2.0 Apache-2.0			
python-kombu-doc	kombu	"AMQP Messaging Framework for Python (Documentation) The aim of Kombu is to make messaging in Python as easy as possible by providing an idiomatic high-level interface for the AMQP protocol. It is meant to replace the carrot library by providing a compatibility layer. . Features: * Allows application authors to support several message server solutions by using pluggable transports. * Supports automatic encoding serialization and compression of message payloads. * The ability to ensure that an operation is performed by gracefully handling connection and channel errors. . This package contains the documentation."	Unknown			
python3-betamax	betamax	"VCR imitation designed only for python-requests - Python 3.X Betamax records HTTP interactions and replay them allowing fast deterministic and accurate tests and it's designed to be used with python-requests. If you are not using python-requests you should checkout vcr.py. . Betamax comes with integrations for py.test and unittest and supports third party packages that provide extra request matchers and cassette serializers. . This package contains the Python 3 version of the library."	Apache-2.0			
librbd1	ceph	"RADOS block device client library RBD is a block device striped across multiple distributed objects in RADOS a reliable autonomic distributed object storage cluster developed as part of the Ceph distributed storage system. This is a shared library allowing applications to manage these block devices."	GPL-2.0+ GPL-2.0 GPL-3.0 LGPL-2.0 LGPL-2.1 BSD-2-Clause BSD-3-Clause Public Domain Apache-2.0	crush	unlimited	cephhash
librbd1	ceph	"RADOS block device client library RBD is a block device striped across multiple distributed objects in RADOS a reliable autonomic distributed object storage cluster developed as part of the Ceph distributed storage system. This is a shared library allowing applications to manage these block devices."	GPL-2.0+ GPL-2.0 GPL-3.0 LGPL-2.0 LGPL-2.1 BSD-2-Clause BSD-3-Clause Public Domain Apache-2.0	sha	512	
librbd1	ceph	"RADOS block device client library RBD is a block device striped across multiple distributed objects in RADOS a reliable autonomic distributed object storage cluster developed as part of the Ceph distributed storage system. This is a shared library allowing applications to manage these block devices."	GPL-2.0+ GPL-2.0 GPL-3.0 LGPL-2.0 LGPL-2.1 BSD-2-Clause BSD-3-Clause Public Domain Apache-2.0	aes	256	

Package name	Source	Package Description	Package License	Encryption types	Encryption Max Key Length	Comment
librbd1	ceph	"RADOS block device client library RBD is a block device striped across multiple distributed objects in RADOS a reliable autonomic distributed object storage cluster developed as part of the Ceph distributed storage system. This is a shared library allowing applications to manage these block devices."	GPL-2.0+ GPL-2.0 GPL-3.0 LGPL-2.0 LGPL-2.1 BSD-2-Clause BSD-3-Clause Public Domain Apache-2.0	abacus	0	
librbd1	ceph	"RADOS block device client library RBD is a block device striped across multiple distributed objects in RADOS a reliable autonomic distributed object storage cluster developed as part of the Ceph distributed storage system. This is a shared library allowing applications to manage these block devices."	GPL-2.0+ GPL-2.0 GPL-3.0 LGPL-2.0 LGPL-2.1 BSD-2-Clause BSD-3-Clause Public Domain Apache-2.0	md5	128	
mongodb	mongodb	"object/document-oriented database (metapackage) MongoDB is a high-performance open source schema-free document-oriented data store that's easy to deploy manage and use. It's network accessible written in C++ and offers the following features: . * Collection oriented storage - easy storage of object-style data * Full index support including on inner objects * Query profiling * Replication and fail-over support * Efficient storage of binary data including large objects (e.g. videos) * Auto-sharding for cloud-level scalability . High performance scalability and reasonable depth of functionality are the goals for the project. . This is a convenience metapackage that depends on all the mongodb parts: the server and the clients."	GPL-2.0 BSD-2-Clause MIT Apache-2.0			
python-rcssmin	python-rcssmin	"CSS Minifier - Python 2.7 The minifier is based on the semantics of the YUI compressor which itself is based on the rule list by Isaac Schlueter. . This module is a re-implementation aiming for speed instead of maximum compression so it can be used at runtime (rather than during a preprocessing step). RCSSmin does syntactical compression only (removing spaces comments and possibly semicolons). It does not provide semantic compression (like removing empty blocks collapsing redundant properties etc). It does however support various CSS hacks (by keeping them working as intended). . rcssmin.c is a reimplementation of rcssmin.py in C and improves runtime up to factor 100 or so (depending on the input). docs/BENCHMARKS in the source distribution contains the details. . This package contains the Python 2.7 module."	Apache-2.0			
rest-bench-dbg	ceph	"debugging symbols for rest-bench Simple tool to benchmark radosgw (or S3) (based on 'rados-bench' command). . This package contains the debugging symbols for rest-bench."	GPL-2.0+ GPL-2.0 GPL-3.0 LGPL-2.0 LGPL-2.1 BSD-2-Clause BSD-3-Clause Public Domain Apache-2.0	crush	unlimited	cephhash
rest-bench-dbg	ceph	"debugging symbols for rest-bench Simple tool to benchmark radosgw (or S3) (based on 'rados-bench' command). . This package contains the debugging symbols for rest-bench."	GPL-2.0+ GPL-2.0 GPL-3.0 LGPL-2.0 LGPL-2.1 BSD-2-Clause BSD-3-Clause Public Domain Apache-2.0	sha	512	
rest-bench-dbg	ceph	"debugging symbols for rest-bench Simple tool to benchmark radosgw (or S3) (based on 'rados-bench' command). . This package contains the debugging symbols for rest-bench."	GPL-2.0+ GPL-2.0 GPL-3.0 LGPL-2.0 LGPL-2.1 BSD-2-Clause BSD-3-Clause Public Domain Apache-2.0	aes	256	
rest-bench-dbg	ceph	"debugging symbols for rest-bench Simple tool to benchmark radosgw (or S3) (based on 'rados-bench' command). . This package contains the debugging symbols for rest-bench."	GPL-2.0+ GPL-2.0 GPL-3.0 LGPL-2.0 LGPL-2.1 BSD-2-Clause BSD-3-Clause Public Domain Apache-2.0	abacus	0	

Package name	Source	Package Description	Package License	Encryption types	Encryption Max Key Length	Comment
rest-bench-dbg	ceph	"debugging symbols for rest-bench Simple tool to benchmark radosgw (or S3) (based on 'rados-bench' command). . This package contains the debugging symbols for rest-bench."	GPL-2.0+ GPL-2.0 GPL-3.0 LGPL-2.0 LGPL-2.1 BSD-2-Clause BSD-3-Clause Public Domain Apache-2.0	md5	128	
python3-extras	python-extras	"extensions to the Python standard library (Python 3.x) Extras is a set of extensions to the Python standard library originally written to make the code within testtools cleaner but now split out for general use outside of a testing context. . This package contains the libraries for Python 3.x."	MIT			
python-os-testr	python-os-testr	"Utility wrappers for testrepository for OpenStack projects - Python 2.x A number of small wrappers to support use of testrepository across OpenStack projects. . This package contains the Python 2.x module and binaries."	Apache-2.0			
aodh-doc	aodh	"OpenStack efficient metering counters system - doc Ceilometer aims to deliver a Single Point Of Contact for billing systems providing all the counters they need to establish customer billing across all current and future OpenStack components. The delivery of counters must be traceable and auditable the counters must be easily extensible to support new projects and agents doing data collections should be independent of the overall system. . (A ceilometer is an instrument that measures cloud coverage.) . This package contains the documentation."	Apache-2.0			
ironic-conductor	ironic	"bare metal hypervisor API for OpenStack - conductor Ironic provision bare metal machines instead of virtual machines. It is a fork of the Nova Baremetal driver. It is best thought of as a bare metal hypervisor API and a set of plugins which interact with the bare metal hypervisors. By default it will use PXE and IPMI in concert to provision and turn on/off machines but Ironic also supports vendor-specific plugins which may implement additional functionality. . This package provides the Ironic Conductor service. It is used to shield database access."	Apache-2.0			
libqb-dev	libqb	"high performance client server features library (devel files) libqb provides a set of high performance client-server reusable features. It offers high performance logging tracing IPC and poll. Its initial features were spun off the Corosync cluster communication suite to make the accessible easier for other projects. . This package contains libqb's development files. You will need it if you plan to develop applications using any of libqb's features."	LGPL-2.0			
pypy-zmq	pyzmq	"PyPy bindings for 0MQ library Python bindings for 0MQ. 0MQ is a small fast and free software library that gives you message-passing concurrency for applications in most common languages. . The 0MQ lightweight messaging kernel is a library which extends the standard socket interfaces with features traditionally provided by specialised messaging middleware products. 0MQ sockets provide an abstraction of asynchronous message queues multiple messaging patterns message filtering (subscriptions) seamless access to multiple transport protocols and more. . This package contains the extension built for the PyPy interpreter."	LGPL-2.1 BSD-3-Clause Apache-2.0			

Package name	Source	Package Description	Package License	Encryption types	Encryption Max Key Length	Comment
blt-demo	blt	"graphics extension library for Tcl/Tk - demos and examples BLT is a library of useful extensions for the Tcl language and the popular Tk graphical toolkit. It adds a vector and tree data type background execution and some debugging tools to Tcl and provides several new widgets for Tk including graphs bar-charts trees tabs splines and hyper-links as well as a new geometry manager drag & drop support and more. . This package contains demos and samples showing the power and versatility of BLT."	Unknown			
python3-django-pyscss	python-django-pyscss	"makes it easier to use PySCSS in Django - Python 3.x Django-pyscss is a collection of tools for making it easier to use pyScss within Django. It overwrites the import system to use Django's staticfiles app. This way you can import SCSS files from any app (or any file that's findable by the STATICFILES_FINDERS) with no hassle. It provides a django-compressor precompile filter class so that you can easily use pyScss with django-compressor without having to bust out to the shell. This has the added benefit of removing the need to configure pyScss through its command-line arguments AND makes it possible for the exceptions and warnings that pyScss emits to bubble up to your process so that you can actually know what's going on. . This package contains the Python 3.x module."	BSD-2-Clause			
python3-routes	routes	"Routing Recognition and Generation Tools for Python 3 Routes is a Python 3 re-implementation of the Rails routes system for mapping URLs to Controllers/Actions and generating URLs. Routes makes it easy to create pretty and concise URLs that are RESTful with little effort. . Speedy and dynamic URL generation means you get a URL with minimal cruft (no big dangling query args). Shortcut features like Named Routes cut down on repetitive typing. . Current features: * Named Routes * Sophisticated Route lookup and URL generation * Wildcard path's before and after static parts * Groupings syntax to allow flexible URLs to accommodate almost any need * Sub-domain support built-in * Conditional matching based on domain cookies HTTP method (RESTful) and more * Easily extensible utilizing custom condition functions and route generation functions * Extensive unit tests"	Unknown			
erlang-doc	erlang	"Erlang/OTP HTML/PDF documentation Documentation for the Erlang programming language and OTP library in HTML and PDF formats."	LGPL-2.1 Apache-2.0	aes	256	
erlang-doc	erlang	"Erlang/OTP HTML/PDF documentation Documentation for the Erlang programming language and OTP library in HTML and PDF formats."	LGPL-2.1 Apache-2.0	diffiehellman	unlimited	
erlang-doc	erlang	"Erlang/OTP HTML/PDF documentation Documentation for the Erlang programming language and OTP library in HTML and PDF formats."	LGPL-2.1 Apache-2.0	blowfish	448	
erlang-doc	erlang	"Erlang/OTP HTML/PDF documentation Documentation for the Erlang programming language and OTP library in HTML and PDF formats."	LGPL-2.1 Apache-2.0	sha	512	
erlang-doc	erlang	"Erlang/OTP HTML/PDF documentation Documentation for the Erlang programming language and OTP library in HTML and PDF formats."	LGPL-2.1 Apache-2.0	hmac	160	
erlang-doc	erlang	"Erlang/OTP HTML/PDF documentation Documentation for the Erlang programming language and OTP library in HTML and PDF formats."	LGPL-2.1 Apache-2.0	md5	128	

Package name	Source	Package Description	Package License	Encryption types	Encryption Max Key Length	Comment
python-pymongo	pymongo	"Python interface to the MongoDB document-oriented database MongoDB is a high-performance open source schema-free document-oriented data store. Pymongo provides an interface to easily access it from Python. Consider installing the python-pymongo-ext C extension to improve performance."	MIT Apache-2.0			
erlang-nox	erlang	"Erlang/OTP applications that don't require X Window System This package is a dummy package which will install all Erlang/OTP applications which do not require X Window System to run."	LGPL-2.1 Apache-2.0	aes	256	
erlang-nox	erlang	"Erlang/OTP applications that don't require X Window System This package is a dummy package which will install all Erlang/OTP applications which do not require X Window System to run."	LGPL-2.1 Apache-2.0	diffiehellman	unlimited	
erlang-nox	erlang	"Erlang/OTP applications that don't require X Window System This package is a dummy package which will install all Erlang/OTP applications which do not require X Window System to run."	LGPL-2.1 Apache-2.0	blowfish	448	
erlang-nox	erlang	"Erlang/OTP applications that don't require X Window System This package is a dummy package which will install all Erlang/OTP applications which do not require X Window System to run."	LGPL-2.1 Apache-2.0	sha	512	
erlang-nox	erlang	"Erlang/OTP applications that don't require X Window System This package is a dummy package which will install all Erlang/OTP applications which do not require X Window System to run."	LGPL-2.1 Apache-2.0	hmac	160	
erlang-nox	erlang	"Erlang/OTP applications that don't require X Window System This package is a dummy package which will install all Erlang/OTP applications which do not require X Window System to run."	LGPL-2.1 Apache-2.0	md5	128	
python-sahara	sahara	"OpenStack data processing cluster as a service - library The Sahara project provides a simple means to provision a data-intensive application cluster (Hadoop or Spark) on top of OpenStack. It's the ex Savanna project renamed due to potential trademark issues. . This package contains the Python libraries."	Apache-2.0			
python-tooz	python-tooz	"coordination library for distributed systems - Python 2.x The Tooz project centralizes the most common distributed primitives like group membership protocol lock service and leader election by providing a coordination API helping developers to build distributed applications. . This package contains the Python 2.x module."	Apache-2.0			
python-keystonemiddleware	python-keystonemiddleware	"Middleware for OpenStack Identity (Keystone) - Python 2.x This package contains middleware modules designed to provide authentication and authorization features to web services other than Keystone. The most prominent module is keystonemiddleware.auth_token. This package does not expose any CLI or Python API features. . This package contains the Python 2.x module."	Apache-2.0			
qemu-system-sparc	qemu	"QEMU full system emulation binaries (sparc) QEMU is a fast processor emulator: currently the package supports SPARC emulation. By using dynamic translation it achieves reasonable speed while being easy to port on new host CPUs. . This package provides the full system emulation binaries to emulate the following sparc hardware: sparc sparc64. . In system emulation mode QEMU emulates a full system including a processor and various peripherals. It enables easier testing and debugging of system code. It can also be used to provide virtual hosting of several virtual machines on a single server."	GPL-2.0 MIT	crypt	65	



Package name	Source	Package Description	Package License	Encryption types	Encryption Max Key Length	Comment
qemu-system-sparc	qemu	"QEMU full system emulation binaries (sparc) QEMU is a fast processor emulator: currently the package supports SPARC emulation. By using dynamic translation it achieves reasonable speed while being easy to port on new host CPUs. . This package provides the full system emulation binaries to emulate the following sparc hardware: sparc sparc64. . In system emulation mode QEMU emulates a full system including a processor and various peripherals. It enables easier testing and debugging of system code. It can also be used to provide virtual hosting of several virtual machines on a single server."	GPL-2.0 MIT	aes	256	
qemu-system-sparc	qemu	"QEMU full system emulation binaries (sparc) QEMU is a fast processor emulator: currently the package supports SPARC emulation. By using dynamic translation it achieves reasonable speed while being easy to port on new host CPUs. . This package provides the full system emulation binaries to emulate the following sparc hardware: sparc sparc64. . In system emulation mode QEMU emulates a full system including a processor and various peripherals. It enables easier testing and debugging of system code. It can also be used to provide virtual hosting of several virtual machines on a single server."	GPL-2.0 MIT	des	56	
qemu-system-sparc	qemu	"QEMU full system emulation binaries (sparc) QEMU is a fast processor emulator: currently the package supports SPARC emulation. By using dynamic translation it achieves reasonable speed while being easy to port on new host CPUs. . This package provides the full system emulation binaries to emulate the following sparc hardware: sparc sparc64. . In system emulation mode QEMU emulates a full system including a processor and various peripherals. It enables easier testing and debugging of system code. It can also be used to provide virtual hosting of several virtual machines on a single server."	GPL-2.0 MIT	tripledes	168	
qemu-system-sparc	qemu	"QEMU full system emulation binaries (sparc) QEMU is a fast processor emulator: currently the package supports SPARC emulation. By using dynamic translation it achieves reasonable speed while being easy to port on new host CPUs. . This package provides the full system emulation binaries to emulate the following sparc hardware: sparc sparc64. . In system emulation mode QEMU emulates a full system including a processor and various peripherals. It enables easier testing and debugging of system code. It can also be used to provide virtual hosting of several virtual machines on a single server."	GPL-2.0 MIT	sha	512	
python3-stevedore	stevedore	"manage dynamic plugins for Python applications - python3 Python makes loading code dynamically easy allowing you to configure and extend your application by discovering and loading extensions (plugins) at runtime. Many applications implement their own library for doing this using __import__ or importlib. stevedore avoids creating yet another extension mechanism by building on top of setuptools entry points. The code for managing entry points tends to be repetitive though so stevedore provides manager classes for implementing common patterns for using dynamically loaded extensions. . This package provides the Python 3.x module."	GPL-2.0+ GPL-2.0 Apache-2.0			

Package name	Source	Package Description	Package License	Encryption types	Encryption Max Key Length	Comment
libqpid-proton2-dev	qpid-proton	"Development libraries for writing messaging apps with Qpid Proton Qpid Proton is a high-performance lightweight messaging library. It can be used in the widest range of messaging applications including brokers client libraries routers bridges proxies and more. Proton makes it trivial to integrate with the AMQP 1.0 ecosystem from any platform environment or language. . This package provides the C development libraries for Qpid Proton."	GPL-2.0+ GPL-2.0 BSD-3-Clause Apache-2.0			
python3-traceback2	python-traceback2	"backports of the traceback module - Python 3.x This package offers a backport of the traceback package to older supported Pythons. Users would typically do: "import traceback2 as traceback" then use the module as if it was the system traceback. . In Python 2.x unlike traceback traceback2 creates unicode output (because it depends on the linecache2 module). . This package contains the Python 3.x module."	Unknown			
liblrmd-dev	pacemaker	"cluster resource manager LRMD library development At its core Pacemaker is a distributed finite state machine capable of co-ordinating the startup and recovery of inter-related services across a set of machines. . Pacemaker understands many different resource types (OCF SYSV systemd) and can accurately model the relationships between them (colocation ordering). . It can even use technology such as Docker to automatically isolate the resources managed by the cluster. . This package contains the headers and other necessary files to build applications or libraries that use the Local Resource Manager Daemon library."	GPL-2.0+ GPL-2.0 LGPL-2.1	md5	128	
python-cassandra	python-cassandra-driver	"Python driver for Apache Cassandra A modern feature-rich and highly-tunable Python client library for Apache Cassandra (1.2+) and DataStax Enterprise (3.1+) using exclusively Cassandra's binary protocol and Cassandra Query Language v3. . Features: * Synchronous and Asynchronous APIs * Simple Prepared and Batch statements * Asynchronous IO parallel execution request pipelining * Connection pooling * Automatic node discovery * Automatic reconnection * Configurable load balancing and retry policies * Concurrent execution utilities * Object mapper"	MIT Apache-2.0			
python-cryptography-doc	python-cryptography	"Python library exposing cryptographic recipes and primitives (documentation) The cryptography library is designed to be a "one-stop-shop" for all your cryptographic needs in Python. . As an alternative to the libraries that came before it cryptography tries to address some of the issues with those libraries: - Lack of PyPy and Python 3 support. - Lack of maintenance. - Use of poor implementations of algorithms (i.e. ones with known side-channel attacks). - Lack of high level "Cryptography for humans" APIs. - Absence of algorithms such as AES-GCM. - Poor introspectability and thus poor testability. - Extremely error prone APIs and bad defaults. . This package contains the documentation for cryptography."	Apache-2.0			
libqpid-proton2-dev-examples	qpid-proton	"Example applications for writign messaging apps with Qpid Proton Qpid Proton is a high-performance lightweight messaging library. It can be used in the widest range of messaging applications including brokers client libraries routers bridges proxies and more. Proton makes it trivial to integrate with the AMQP 1.0 ecosystem from any platform environment or language. . This package provides C language examples for Qpid Proton."	GPL-2.0+ GPL-2.0 BSD-3-Clause Apache-2.0			

Package name	Source	Package Description	Package License	Encryption types	Encryption Max Key Length	Comment
python3-oslo-middleware	python-oslo.middleware	"transitional dummy package for python3-oslo-middleware This transitional package to python3-oslo.middleware is safe to remove."	Apache-2.0			
neutron-lbaas-common	neutron-lbaas	"Neutron is a virtual network service for Openstack - common Neutron is a virtual network service for Openstack and a part of Netstack. Just like OpenStack Nova provides an API to dynamically request and configure virtual servers Neutron provides an API to dynamically request and configure virtual networks. These networks connect "interfaces" from other OpenStack services (e.g. virtual NICs from Nova VMs). The Neutron API supports extensions to provide advanced network capabilities (e.g. QoS ACLs network monitoring etc.) . This package provides the Load Balancing as-a Service common files."	Apache-2.0			
nova-compute-ironic	nova	"OpenStack Compute - compute node (Ironic) OpenStack is a reliable cloud infrastructure. Its mission is to produce the ubiquitous cloud computing platform that will meet the needs of public and private cloud providers regardless of size by being simple to implement and massively scalable. . OpenStack Compute codenamed Nova is a cloud computing fabric controller designed to be modular and easy to extend and adapt. In addition to its "native" OpenStack API it also supports the Amazon EC2 API and it supports many different database backends (including SQLite MySQL and PostgreSQL) hypervisors (KVM Xen) and user directory systems (LDAP SQL). . This is a dependency package for compute nodes using Ironic."	Apache-2.0			
python3-restructuredtext-lint	restructuredtext-lint	"restructured text linter for Python 3.x . This package provides the Python 3.x module."	Public Domain			
python-neutron-lib-doc	python-neutron-lib	"Neutron shared routines and utilities - doc Neutron provides an API to dynamically request and configure virtual networks. These networks connect "interfaces" from other OpenStack services (such as vNICs from Nova VMs). The Neutron API supports extensions to provide advanced network capabilities including QoS ACLs and network monitoring. . Neutron-lib is an OpenStack library project used by Neutron Advanced Services and third-party projects to provide common functionality and remove duplication. . This package contains the documentation of neutron-lib."	Apache-2.0			
mcollective	mcollective	"build server orchestration or parallel job execution systems The Marionette Collective aka. mcollective is a framework to build server orchestration or parallel job execution systems."	Apache-2.0			
ceilometer-alarm-notifier	ceilometer	"OpenStack efficient metering counters system - aodh-notifier trans Ceilometer aims to deliver a Single Point Of Contact for billing systems providing all the counters they need to establish customer billing across all current and future OpenStack components. The delivery of counters must be traceable and auditable the counters must be easily extensible to support new projects and agents doing data collections should be independent of the overall system. . This package is a dummy transition package to aodh-notifier and can be safely removed."	Apache-2.0			
python3-pymysql	python-pymysql	"Pure-Python MySQL Driver - Python 3.x This package contains a pure-Python MySQL client library. The goal of PyMySQL is to be a drop-in replacement for MySQLdb and work on CPython PyPy IronPython and Jython. . This package contains the Python 3.x module."	Unknown			

Package name	Source	Package Description	Package License	Encryption types	Encryption Max Key Length	Comment
python-sphinxcontrib-httpdomain	sphinxcontrib-httpdomain	"Sphinx domain for HTTP APIs - transition package This contrib extension sphinxcontrib.httpdomain provides a Sphinx domain for describing RESTful HTTP APIs. It generates RESTful HTTP API reference documentation from a Flask application?s routing table similar to sphinx.ext.autodoc. . This is a metapackage for the transition to python-sphinxcontrib.httpdomain."	BSD-2-Clause			
python-oslo-config	python-oslo.config	"transitional dummy package for python-oslo-config This transitional package is safe to remove and use python-oslo.config instead."	Apache-2.0			
ceilometer-agent-central	ceilometer	"OpenStack efficient metering counters system - central agent Ceilometer aims to deliver a Single Point Of Contact for billing systems providing all the counters they need to establish customer billing across all current and future OpenStack components. The delivery of counters must be traceable and auditable the counters must be easily extensible to support new projects and agents doing data collections should be independent of the overall system. . (A ceilometer is an instrument that measures cloud coverage.) . This package contains the central agent."	Apache-2.0			
python3-rjsmin	python-rjsmin	"javascript minifier written in Python - Python 3.x rJSmin is a javascript minifier written in Python. The minifier is based on the semantics of jsmin.c by Douglas Crockford. . The module is a re-implementation aiming for speed so it can be used at runtime (rather than during a preprocessing step). Usually it produces the same results as the original jsmin.c. It differs in the following ways: . - there is no error detection: unterminated string regex and comment literals are treated as regular javascript code and minified as such. - Control characters inside string and regex literals are left untouched; they are not converted to spaces (nor to) - Newline characters are not allowed inside string and regex literals except for line continuations in string literals (ECMA-5). - "return /regex/" is recognized correctly. - Line terminators after regex literals are handled more sensibly - "+ +" and "- -" sequences are not collapsed to '++' or '--' - Newlines before ! operators are removed more sensibly - Comments starting with an exclamation mark (!) can be kept optionally - rJSmin does not handle streams but only complete strings. (However the module provides a "streamy" interface). . Since most parts of the logic are handled by the regex engine it's way faster than the original Python port of jsmin.c by Baruch Even. The speed factor varies between about 6 and 55 depending on input and Python version (it gets faster the more compressed the input already is). Compared to the speed-refactored Python port by Dave St.Germain the performance gain is less dramatic but still between 3 and 50 (for huge inputs)). See the docs/BENCHMARKS file for details. . This package contains the Python 3.x module."	GPL-2.0 BSD-3-Clause Apache-2.0			