

Atlas Dashboard End User Guide

Cloud Execution Environment

USER GUIDE

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1 Introduction

The Ericsson dashboard (Atlas) for the Cloud Execution Environment is based on the OpenStack dashboard (Horizon). For more information on the OpenStack dashboard, refer to the community user guide *OpenStack End User Guide*.

This document describes the additional functions of the Ericsson dashboard, Atlas, as compared to OpenStack Horizon. Refer to *Atlas Overview* for more information.

The target group of this document consists of the users operating virtual resources with the Atlas Graphical User Interface (GUI).

Note: The list of supported Atlas features varies depending on the specific Cloud Execution Environment (CEE) configuration that is used.



2 Terms

This section explains the expressions used with a special meaning in the Atlas context.

Application	Application refers to the OVF package, HOT template, or TOSCA template.
Catalog	Catalog is a user interface for managing the applications.
HOT	Heat Orchestration Engine (HOT) is the template format used for orchestration of stacks, that is, VMs and related support artifacts, using the OpenStack Heat service.
OVF	The Open Virtualization Format (OVF) provides a platform independent, efficient, extensible, and open packaging distribution format.
OVF package	An OVF package is a single TAR file that contains the OVF descriptor. It is also called Open Virtualization Archive (OVA) package.
Security Group	<p>Security groups are a kind of cloud firewall that define which incoming network traffic is forwarded to the instances. For more information, refer to section <i>Add a rule to the default security group</i> in the <i>OpenStack End User Guide</i>.</p> <p>Note: CEE does not support security groups. For CEE, no security groups need to be assigned. Assigned security groups have no effect on CEE operations.</p>
Stack	Application developers are allowed to create resources of most of the OpenStack resource types by using flexible template languages. Resources include instances, floating IP addresses, volumes, security groups, and users. Once created, the resources are referred to as stacks.
TOSCA	Topology and Orchestration Specification for Cloud Applications (TOSCA) defines the interoperable description of services and applications hosted on the cloud and elsewhere, including their components, relationships, dependencies, requirements, and capabilities. It enables portability and automated management across cloud providers regardless of the underlying platform or infrastructure.



3 GUI Description

This section describes the Graphical User Interface (GUI) of Atlas used in CEE.

Note: Atlas is best viewed using Google Chrome™ but it also supports Mozilla Firefox® 40.0+.

To enter Atlas, the username and password of the user must be typed in at the login screen shown in Figure 1.

Note: If the admin user password is changed via the GUI, log on to Atlas CLI and execute the following steps manually:

```
atlasadm@atlas:~$ source openrc
atlasadm@atlas:~$ export OS_PASSWORD=new_password
```



Figure 1 Atlas Login Screen

Figure 2 shows the GUI elements used for the operations in Atlas.

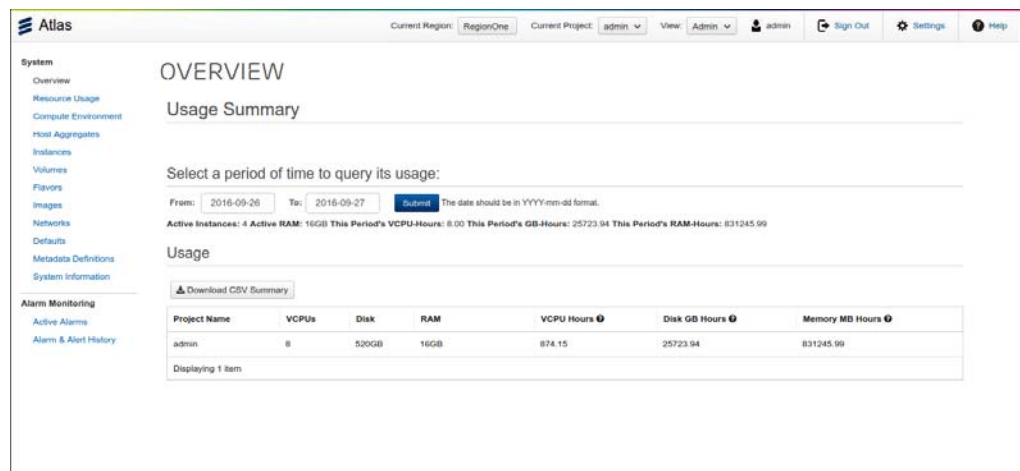


Figure 2 Atlas GUI Elements

The following GUI elements are available in the screen:

- Categories** The menu items on the left are called categories in the OpenStack terminology.
- Current Project** The user must select a tenant from this drop-down menu.
- Current Region** The name of the current region is displayed.
- View** The user must select a view from the drop-down menu, that is, the area of operations the user wants to reach.
- User** The name of the user logged in is displayed.
- Sign Out** Click on the icon to sign out from Atlas.
- Settings** Click on the icon to change password or other user settings.
- Help** Click on the icon to display help for using the Atlas GUI, and for product information.

Note: In case of an expired certificate, update the certificate. Otherwise, proceed at your own risk.



4 Manage Routers

This section describes how to manage routers. The following procedures are available:

- Create a router, see Section 4.1 on page 5.
- Add interface to a router, see Section 4.2 on page 5.

An overview of the `Routers` screen is shown in Figure 3.

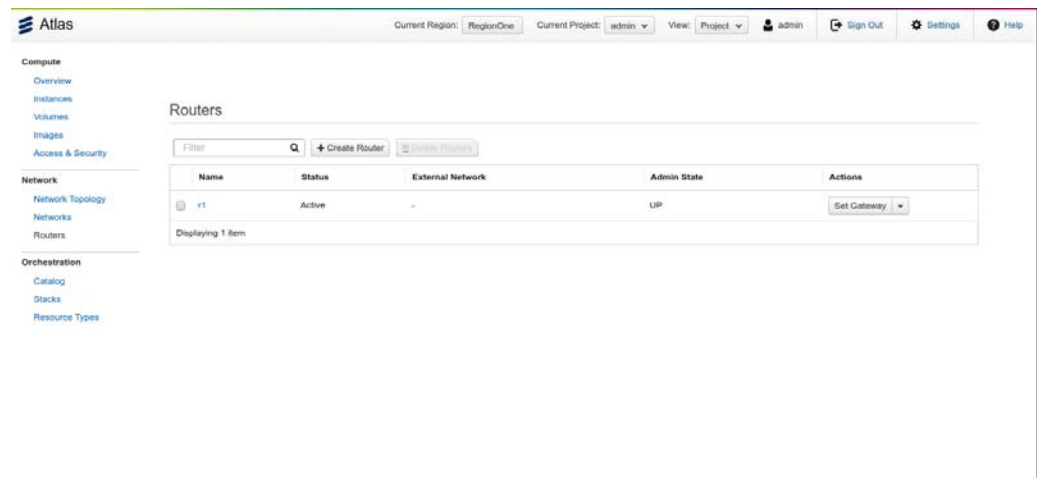


Figure 3 Overview of the Routers Screen

4.1 Create Router

Perform the below steps to create a router.

Note: The availability of the `Manage Router` actions depends on the configuration of CEE.

1. Log on to the Atlas dashboard.
2. Select the appropriate project in the **Current Project** field, and select `Project` in the **View** field.
3. Click the **Routers** category.
4. Click **Create Router**.
5. In the **Create Router** dialog box, specify a name for the router and `External Network`, then click **Create Router**.
6. Click **Create Router** to create a router.

The Atlas dashboard shows the router in the `Routers` category.



4.2 Add Interface

To add an interface, perform the following steps:

1. Log on to the Atlas dashboard.
2. Select the appropriate project in the **Current Project** field, and select **Project** in the **View** field.
3. Click the **Routers** category.
4. Select the router to which the interface is to be added, and click on the **Interfaces** tab.
5. Click **Add Interface**.
6. In the **Add Interface** window, specify the following values:

Subnet	Select a subnet to be added to the router.
IP Address (Optional)	Enter an IP address. The default IP address of the interface created is a gateway of the selected subnet. A different IP address of the interface can be specified.

7. Click **Add interface** to add the selected subnet.

Atlas dashboard shows the interface in the Interface table of the selected router.



5 Manage Applications in Catalog

This section describes how to manage applications by using the Catalog. The following procedures are available:

- Upload applications, see Section 5.1 on page 7.
- Show details of applications, see Section 5.2 on page 9.
- Show details of application templates, see Section 5.3 on page 10.
- Show details of environment files, see Section 5.4 on page 11.
- Update applications, see Section 5.5 on page 11.
- Delete applications, see Section 5.6 on page 12.
- Launch stacks, see Section 5.7 on page 12.
- Export applications uploaded in Catalog to local file system, see Section 5.8 on page 13.

An overview of the Catalog screen is shown in Figure 4.

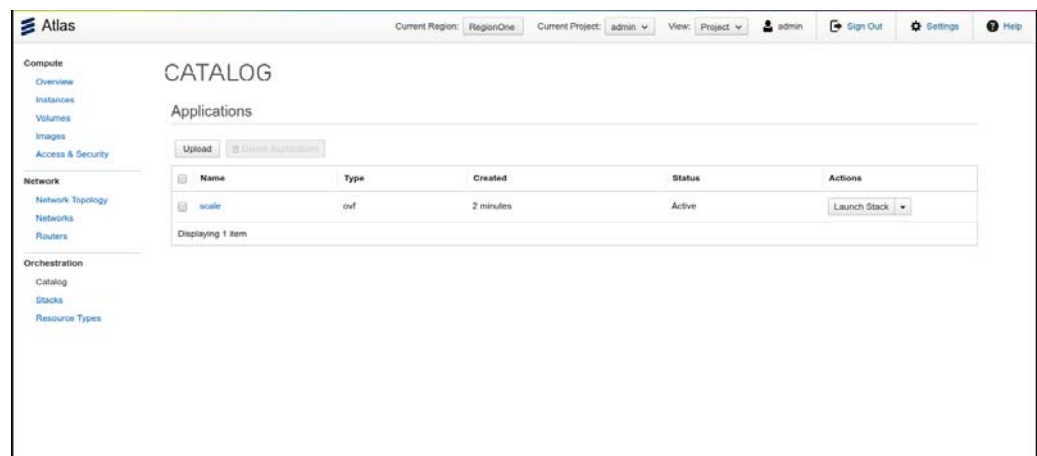


Figure 4 Overview of the Catalog Screen

5.1 Upload Application

This section describes how to add the OVF, HOT or TOSCA file to the Atlas catalog.

The Application Upload screen is shown in Figure 5.



Application Upload ✕

Application Name *

Type

Select Application Type

Description

☐ Public

☐ Protected

Cancel

Upload

Public: the application can be viewed/used from all projects. A non-public application can only be viewed by users of the project it was uploaded in.

Protected: a protected application cannot be deleted.

Figure 5 Application Upload Screen

To upload an application, perform the following steps:

1. Log on to the Atlas dashboard.
2. Select the appropriate project in the **Current Project** field, and select Project in the **View** field.
3. Click the **Catalog** category.
4. Click **Upload**.
5. In the Application Upload window, specify the following values:

Application Name	A name to identify the application
Type	The type can be one of the following: <ul style="list-style-type: none">• OVF package/OVA• HOT• TOSCA



Application Source	<p>A source from which the application can be uploaded. Only visible and applicable if the application type is OVF package/OVA.</p> <p>The source can be one of the following:</p> <ul style="list-style-type: none"> • An application Uniform Resource Locator (URL) • An application file (OVF package, HOT or TOSCA file)
Description (Optional)	Description for the application
Public (Optional)	<p>Apply the relevant setting:</p> <ul style="list-style-type: none"> • Tick the checkbox to set the application to <code>public</code>, that is, visible for all projects. • Leave the checkbox empty to only make the application visible for the project that uploads it.
Protected (Optional)	<p>Apply the relevant setting:</p> <ul style="list-style-type: none"> • Tick the checkbox to make the application <code>protected</code>. Protected applications cannot be deleted. • Leave the checkbox empty to make the application deletable.

6. Click **Upload** to upload an application.

Atlas dashboard shows the uploaded application in the `Catalog` category.

5.2 Show Application Overview

The Application Details - Application Overview content is shown in Figure 6.

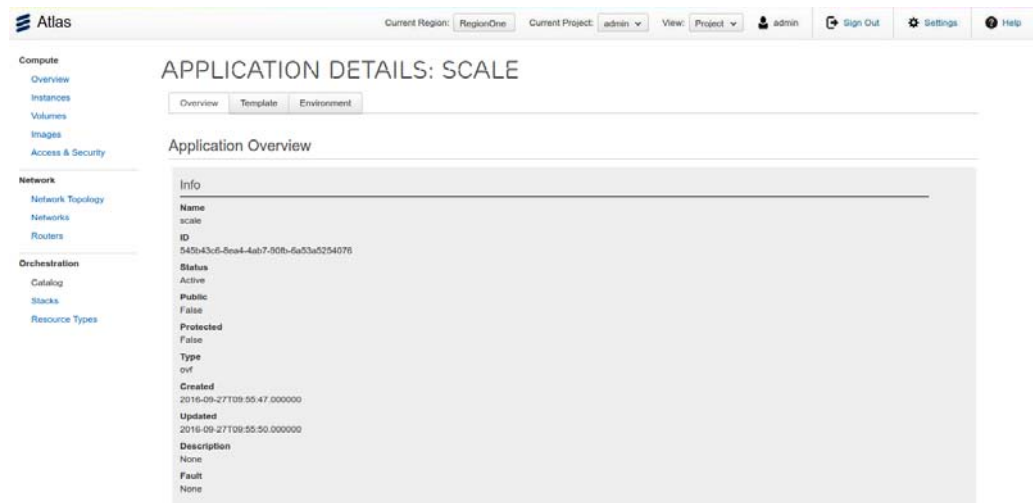


Figure 6 Application Details - Application Overview

To show the application overview, perform the following steps:

1. Log on to the Atlas dashboard.
2. Select the appropriate project in the **Current Project** field, and select Project in the **View** field.
3. Click the **Catalog** category.
4. Click on the name of an uploaded application.
5. Click the **Overview** tab to display the application overview.

5.3 Show Application Template

The Application Details - Application Template content is shown in Figure 7.

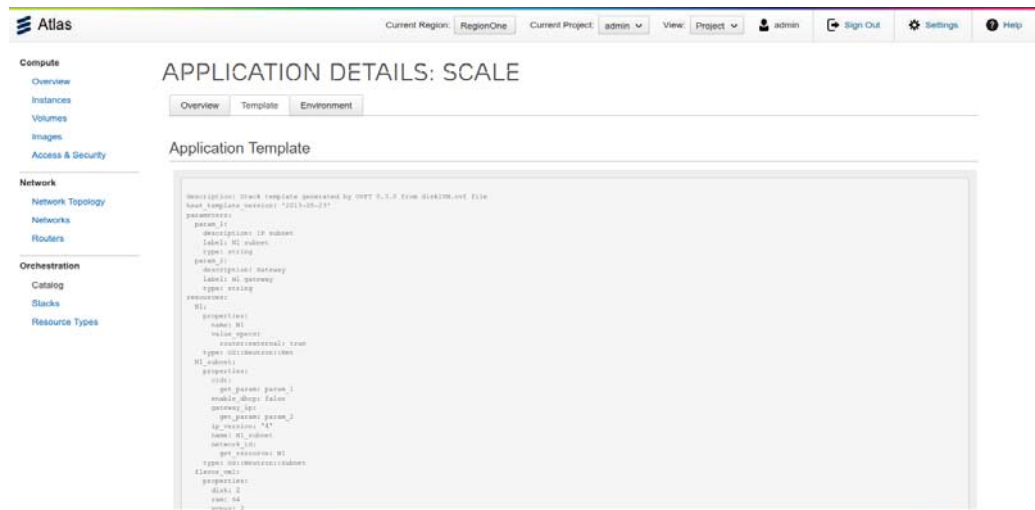


Figure 7 Application Details - Application Template

To show application templates, perform the following steps:

1. Log on to the Atlas dashboard.
2. Select the appropriate project in the **Current Project** field, and select Project in the **View** field.
3. Click the **Catalog** category.
4. Click on the name of an uploaded application.
5. Click the **Template** tab to display the application template.

5.4 Show Environment Files

To show the environment files, perform the following steps:

1. Log on to the Atlas dashboard.
2. Select the appropriate project in the **Current Project** field, and select Project in the **View** field.
3. Click the **Catalog** category.
4. Click on the name of an uploaded application.
5. Click the **Environment** tab to display the present environment files.

5.5 Update Application

To update applications, perform the following steps:

1. Log on to the Atlas dashboard.



2. Select the appropriate project in the **Current Project** field, and select **Project** in the **View** field.
3. Click the **Catalog** category.
4. Click **More** in the row of the application to be updated.
5. Click **Edit**.
6. In the **Edit Application** window, specify the new value or values. The following can be updated:

Application Name	The name of the application
Description	A description for the uploaded application
Public	Apply the relevant setting: <ul style="list-style-type: none">• Tick the checkbox to set the application to public, that is, visible for all projects.• Leave the checkbox empty to only make the application visible for the project that uploads it.
Protected	Apply the relevant setting: <ul style="list-style-type: none">• Tick the checkbox to make the application protected. Protected applications cannot be deleted.• Leave the checkbox empty to make the application deletable.

7. Click **Save**.

5.6 Delete Application

To delete applications, perform the following steps:

1. Log on to the Atlas dashboard.
2. Select the appropriate project in the **Current Project** field, and select **Project** in the **View** field.
3. Click the **Catalog** category.
4. Click the check box next to the application that is to be deleted.
5. Click **Delete Applications**.



5.7 Launch Stack From Catalog Page

To launch a stack from the **Catalogs** page, perform the steps from Section 8 on page 27.

5.8 Export Application

Applications uploaded in the Catalog can be exported to the local file system.

To export an application, perform the following steps:

1. Log on to the Atlas dashboard.
2. Select the appropriate project in the **Current Project** field, and select **Project** in the **View** field.
3. Click the **Catalog** category.
4. Click **More** in the row of the application that is to be exported.
5. Click on **Export Application**.

Figure 8 shows how to export an application in the **Catalog - Applications** window.

CATALOG

Applications

Upload

Delete Applications

<div><input type="checkbox"/></div>	Name	Type	Created	Status	Actions
<div><input type="checkbox"/></div>	scale	ovf	17 minutes	Active	<div>Launch Stack</div> <div><div>Edit</div><div>Export Application</div><div>Delete Application</div></div>

Displaying 1 item

Figure 8 Exporting an Application in Catalog - Applications



6 Manage Stacks

This section describes how to manage stacks.

The following procedures are available:

- Launch stack, see Section 6.1 on page 14.
- Manually scale out resources by adding resources to a running stack, see Section 6.2 on page 16.
- Manually scale in resources that have been previously scaled out by removing the previously added resources from a running stack, see Section 6.3 on page 19.

An overview of the `Stacks` screen is shown in Figure 9.

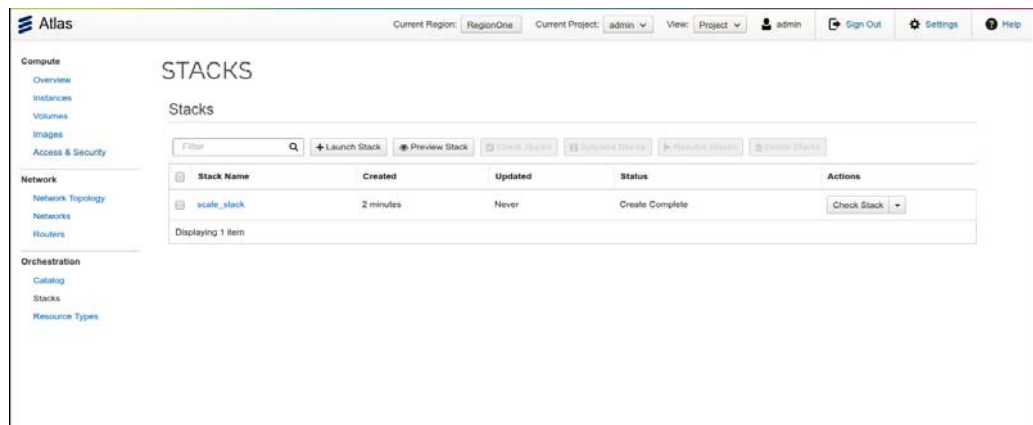


Figure 9 Overview of the Stacks Screen

6.1 Launch Stacks

The `Launch Stack` screen is shown in Figure 10.



Launch Stack (step 1 of 2)

Create and launch a new stack from a template.

Template Source

URL

Template URL

Environment Source

URL

Template Source: Select the type of source you will use for launching the new stack. Supported file formats are OVA and Yaml.

Environment Source: The environment files contain additional settings for the stack.

File injection (available when 'Catalog' has been chosen as template source): Select the personality (additional user data) file/s you need to inject in order to configure your application. Then enter an absolute target path (i.e. "/temp") for each file. This is where the file/s will be injected into the selected server.
Tip: the config drive is always used with personality files.

Cancel

Next

Figure 10 Launch Stack

To launch a stack, perform the following steps:

1. Log on to the Atlas dashboard.
2. Select the appropriate project in the **Current Project** field, and select Project in the **View** field.
3. Click **Stacks** category.
4. Click **Launch Stack**.
5. In the **Select Template** window, specify the following fields:



Template Source	A source from which environment files can be added. The following template sources are available: <ul style="list-style-type: none">• URL• File• Direct Input
Environment Source (Optional)	A source from which environment files can be added. The following environment sources are available: <ul style="list-style-type: none">• URL• File• Direct Input

6. Click **Next**.
7. In the **Launch Stack** window, specify the following fields:

Stack Name	Enter a name to identify the stack
Creation Timeout (minutes)	Specify the timeout interval for launching the stack. If the task times out, the stack is not launched
Rollback on Failure (Optional)	Select this check box if you want the service to roll back changes in case the stack fails to launch
Password	Specify the password to be used by the default user for creating the stack
Additional Fields	Additional fields generated by the application template

8. Click **Launch**.

Atlas dashboard shows the launched stack and its status in the `Stacks` category.

9. Verify that the status of the stack is `CREATE COMPLETE`. If the status is `CREATE FAILED`, check the logs in `/var/log/heat` in Atlas or check the stack details for debugging.

For more information on how to provide customized resources while launching a stack from a catalog application, see Section 8 on page 27.

6.2 Scale out Stack

The scaling feature makes it possible to manually scale resources that belong to a running stack. Use `Scale Out` to add resources to a running stack.

To scale out a stack, perform the following steps:

- 1. Go to the `Stacks` page.
- 2. In the **Actions** column, select the **Scale Out Stack** option from the drop down menu for the stack that is to be scaled out, as shown in Figure 11.

STACKS

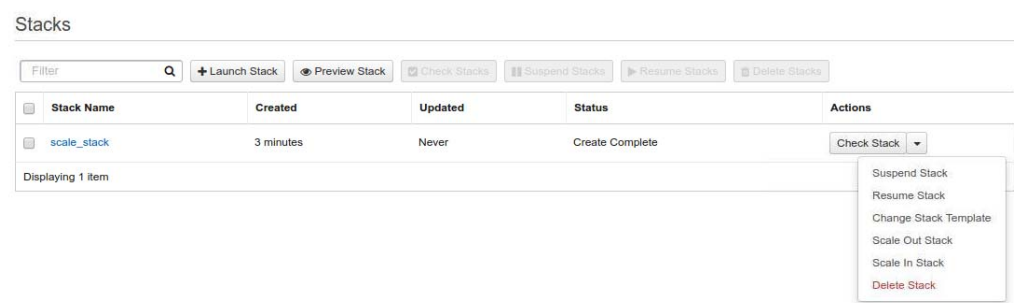


Figure 11 Scale out Stack Option

- 3. Fill in all the scale out data for the new instance like **Target Name**, optional **IP Address**, and **MAC Address**. If there are files to inject, select them. Click on the **Submit** button when ready. Figure 12 shows the data fields.



The screenshot shows the 'Scale Out - scale_stack' dialog box. It has a title bar with 'Current Region: RegionOne' and a user profile 'admin'. The main area is titled 'Scale Out - scale_stack' and contains a table with the header 'Instances in Stack' and a search filter. The table lists 'vm1' with a blue '+' icon next to it. A modal window titled 'New Instance Data' is open over the table. It contains the following fields: 'Target Name' (with a dropdown arrow), 'File to Inject' (with a 'Choose File' button and 'No file chosen' text), 'Injected File Path' (with a text input), 'N1 IP Address' (with a text input showing 'e.g. 192.168.1.1'), and 'N1 Mac Address' (with a text input). At the bottom of the modal are 'Cancel' and 'Submit' buttons. At the bottom of the main dialog box are 'Cancel' and 'Scale Out' buttons.

Figure 12 Scale Out Data

4. Click on the **Scale Out** button as shown in Figure 13.

The screenshot shows the 'Scale Out - scale_stack' dialog box. It has a title bar with 'Current Region: RegionOne' and a user profile 'admin'. The main area is titled 'Scale Out - scale_stack' and contains two tables. The first table, 'Instances in Stack', has a search filter and lists 'vm1' with a blue '+' icon. The second table, 'Instances to be Scaled Out', lists 'vm1_scaled' with a blue '-' icon. At the bottom of the dialog box are 'Cancel' and 'Scale Out' buttons.

Figure 13 Start the Scale out

- After a successful scale out, the resources scaled out are listed among the resources of the stack, as shown in Figure 14.

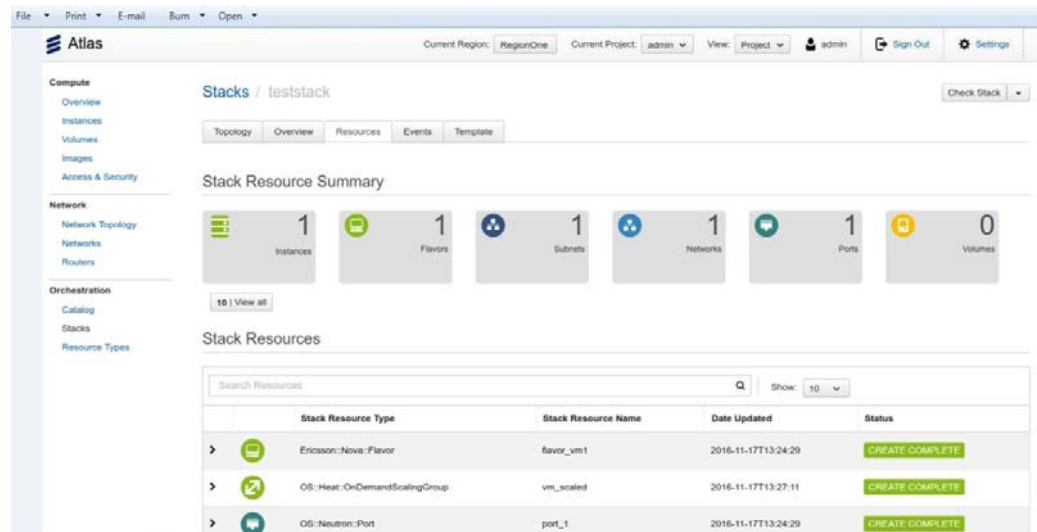


Figure 14 Stack Resource Summary

6.3 Scale in Stack

The scaling feature makes it possible to manually scale resources that belong to a running stack. Use **Scale In** to remove scaled resources from a running stack.

To scale in a scaled out stack, perform the following steps:

- Go to the **Stacks** page.
- In the **Actions** column, select the **Scale In Stack** option from the drop down menu for the scaled out stack that is to be scaled in as shown in Figure 15.

STACKS

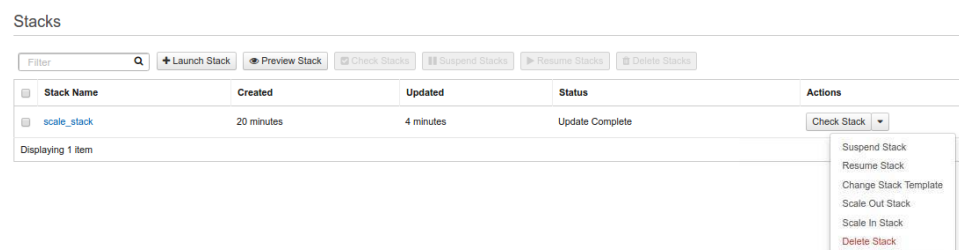


Figure 15 Scale in Stack Option

- In the **Scale In** page, select the scaling group (scaled resource) you want to scale in, and click the **Scale In** button as shown in Figure 16.



Scale In - scale_stack

Filter

Q

<input type="checkbox"/> Instance Name	Scaled Out Instance	IP Address	Volume ID
<input checked="" type="checkbox"/> vm1_scaled	vm1_scaled	13.0.0.2	

Cancel

Scale In

Figure 16 Start Scale in

- After a successful scale in, the scaling group (scaled resource) is removed from the stacks resource list, as shown in Figure 17.

Atlas

Current Region: RegionOne Current Project: admin View: Project admin Sign Out Settings

Compute

Overview

Instances

Volumes

Images

Access & Security

Network

Network Topology

Networks

Routers

Orchestration

Catalog

Stacks

Resource Types

Stacks / teststack

Check Stack

Topology

Overview

Resources

Events

Template

Stack Resource Summary

1

Instances

1

Flavors

1

Subnets

1

Networks

1

Ports

0

Volumes

10 | View all

Stack Resources

Search Resources

Q

Show: 10

	Stack Resource Type	Stack Resource Name	Date Updated	Status
>	OS::Neutron::Subnet	N1_subnet	2016-11-17T13:24:29	CREATE COMPLETE
>	OS::Neutron::Net	N1	2016-11-17T13:24:29	CREATE COMPLETE
>	Eriasson::Nova::Flavor	flavor_vm1	2016-11-17T13:24:29	CREATE COMPLETE

Figure 17 Stack Resource Summary

7

Manage Workflow in Mistral

This section describes how to manage the workflow in Mistral.

7.1

Create Workbook

To create a workbook, perform the following steps:

1.
- Log on to the Atlas dashboard, select the appropriate project with **Workflow** view as shown in Figure 18.

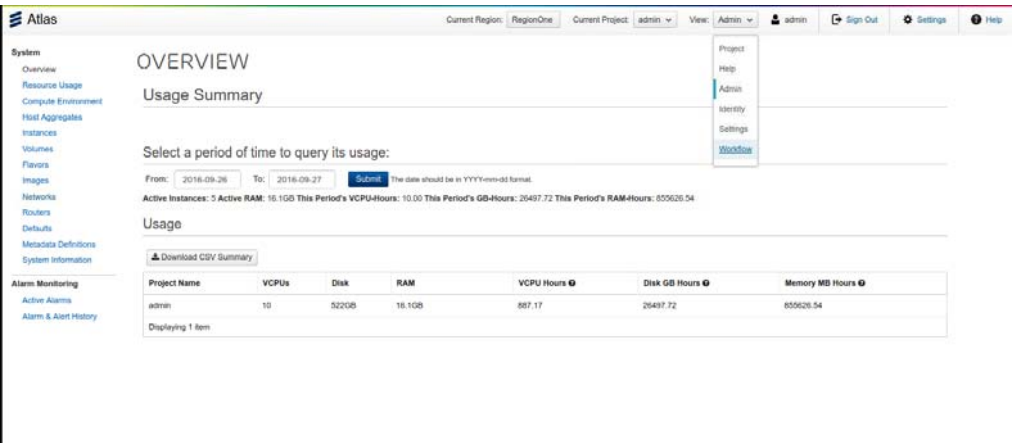


Figure 18 Workflow View Selection

2.
- Select **Workbooks** category under the **Workflow** panel. Click **Create Workbook**.
3.
- In the **Create Workbook** window specify the following fields:
- | Name | Action |
|-------------------|------------------------------|
| Definition Source | File |
| Definition File | Select the required template |
4.
- Click **Next** to see the template description.
5.
- Click **Create Workbook**. Workbook is created.

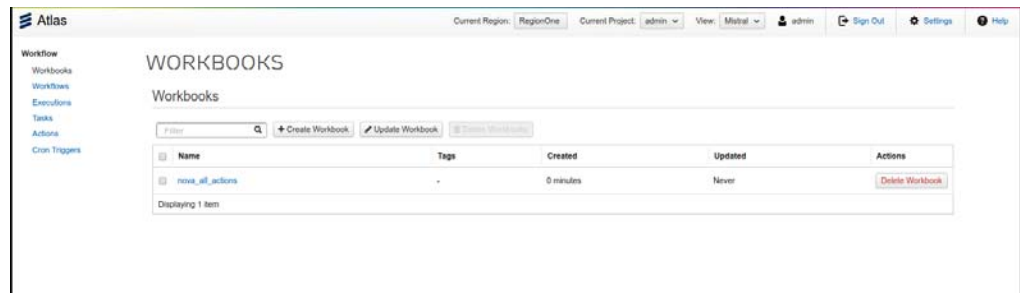


Figure 19 Workbook Overview

7.2 Create Workflow

To create a workflow, perform the following steps:

1. Log on to the Atlas dashboard, select the appropriate project with **Workflows** view, and click the **Workflows Category**.
2. Click **Create Workflow**.
3. In the **Create Workflow** window specify the following fields. Click **Next**:

Name

Definition Source

Definition File

Action

File

Select the required template.

4. After the template description is displayed, select **Create Workflow**.

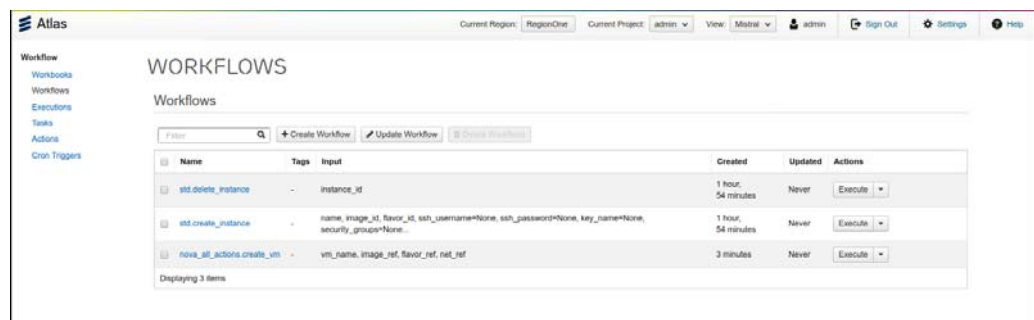


Figure 20 Workflow Overview

7.3 Start Execution

To start an execution, perform the following steps:

1. Log on to the Atlas dashboard, select the appropriate project with **WorkFlow** view, and click the **Workflows Category**.
2. Select **Execute** for respective workflow.

3. In the window specify the following fields:

Name	Action
Input	Enter the input file in json format.
Task name	Enter a name for a specific task to executed. If not specified, the tasks are executed.

4. Click **Execute**

5. Execution can be seen in the execution page as shown in Figure 21.

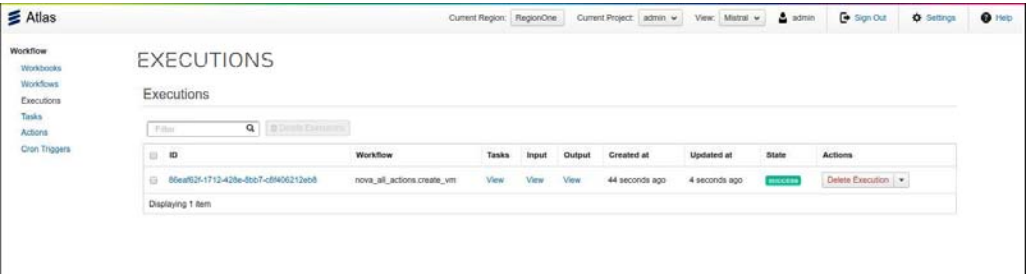


Figure 21 Execution Overview

6. Click on view in **Tasks** column to see result of an execution, as shown in Figure 22.

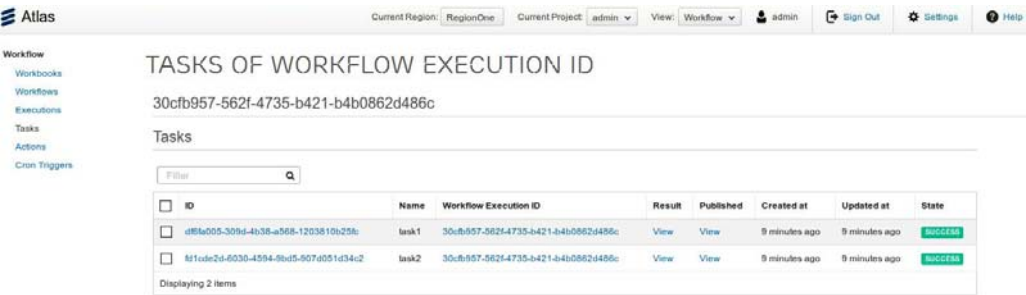


Figure 22 Tasks of Workflow Overview

7.4 Create Cronjob

To create a Cronjob, perform the following steps:

1. Log on to the Atlas dashboard. Select the appropriate project with **WorkFlow** view, and select the **Cron Triggers** category.
2. Click **Create Cron Trigger**.
3. In the **Create Cron Trigger** window specify the following fields:

**Name**

Name

Workflow ID

Input

Input Data

File

Params

Params File

Params Direct Input

First Time

Count

Pattern

Action

A name to identify the cronjob

Workflow ID

Select any option among **Direct Input** or **File**.If option selected for input is **Direct Input** enter the data in json format.If option selected for Input is **File** upload the required json file.Select any one option among **Direct Input** or **File**.If option selected for Params is **File** upload the required json file.If option selected for Params is **Direct Input** enter the data in json format.

Specify the first scheduling time for the cronjob.

Specify the frequency for the cronjob.

Specify the cronjob pattern to run periodically.

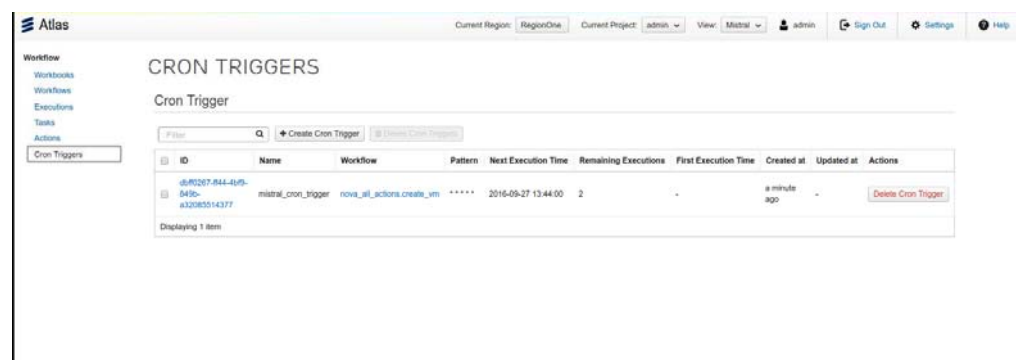
4. Click **Create Cron-Trigger**.

Figure 23 Cron Triggers

7.5

Task Result

To get the result of a particular task, perform the following steps:

1. Log on to the Atlas dashboard, select the appropriate project with **WorkFlow** view, and select the **Tasks** category.

2. Select **View** under **Result** column against specific action.

Atlas

Current Region: RegionOneCurrent Project: adminView: MistraladminSign OutSettingsHelp

Workflow

Workbooks

Workflows

Executions

Tasks

Actions

Cron Triggers

TASKS

Filter

ID	Name	Workflow Execution ID	Result	Published	Created at	Updated at	State
4e5e6e6-b59e-4b9e-8eb2-9f70a9e0eb	create_server	96ea92f-1712-428e-8eb7-c9406212eb8	View	View	23 minutes ago	23 minutes ago	success
657067b-5ebc-4b3a-9a3f-6f143dae2b4	check_server_exists	96ea92f-1712-428e-8eb7-c9406212eb8	View	View	23 minutes ago	23 minutes ago	success
1ca77402-e516-423c-a9c7-eaeb2da853e	wait_instance	96ea92f-1712-428e-8eb7-c9406212eb8	View	View	23 minutes ago	23 minutes ago	success
17aa12ac-bda5-43df-d944-cd9e305d9a6	create_server	a5ee834-07b9-4e06-a716-f7662313da9f	View	View	6 minutes ago	6 minutes ago	success
c989b1e-d195-4a2b-bc72-3e21acde8e8	check_server_exists	a5ee834-07b9-4e06-a716-f7662313da9f	View	View	6 minutes ago	6 minutes ago	success
6e712a5b-7cc3-43ec-a3ef-74104843ee09	wait_instance	a5ee834-07b9-4e06-a716-f7662313da9f	View	View	6 minutes ago	5 minutes ago	success
5cd257ea-4319-4099-8b3b-90f006071d36	create_server	ad53787f-c92b-43dd-99b0-14a436e11e3f	View	View	4 minutes ago	4 minutes ago	success
b4dcdb95-5c7e-420f-baef-9348eb101a8f	check_server_exists	ad53787f-c92b-43dd-99b0-14a436e11e3f	View	View	4 minutes ago	4 minutes ago	success
1ab4ce5b-6c0f-4b0b-9056-baaa7a63610f	wait_instance	ad53787f-c92b-43dd-99b0-14a436e11e3f	View	View	4 minutes ago	4 minutes ago	success

Displaying 9 items

Figure 24 Tasks Overview

7.6

Delete Workflow

To delete a workflow, perform the following steps:

1. Log on to the Atlas dashboard, select the appropriate project with **WorkFlow** view, and select the **Workflows Category**.
2. Select the check box next to the workflow to be deleted as shown in Figure 25.
3. Select **Delete Workflows**.

Atlas

Current Region: RegionOneCurrent Project: adminView: MistraladminSign OutSettingsHelp

Workflow

Workbooks

Workflows

Executions

Tasks

Actions

Cron Triggers

WORKFLOWS

Workflows

Filter

+ Create WorkflowUpdate WorkflowDelete Workflows

Name	Tags	Input	Created	Updated	Actions
<input type="checkbox"/> id create_instance	-	name, image_id, flavor_id, ssh_username=None, ssh_password=None, key_name=None, security_groups=None...	38 minutes	Never	Execute
<input type="checkbox"/> id delete_instance	-	instance_id	38 minutes	Never	Execute
<input checked="" type="checkbox"/> nova_el_actions.create_vm	-	vm_name, image_ref, flavor_ref, net_ref	30 minutes	Never	Execute

Displaying 3 items

Figure 25 Delete Workflows

7.7

Delete Cron Trigger

To delete a Cron Trigger, perform the following steps:



1. Log on to the Atlas dashboard, select the appropriate project with **WorkFlow** view, and select the **Cron Triggers** category.
2. Select the checkbox next to the Cron trigger to be deleted.
3. Select **Delete Cron Triggers** and again select **Delete Cron Triggers** as shown in Figure 26.

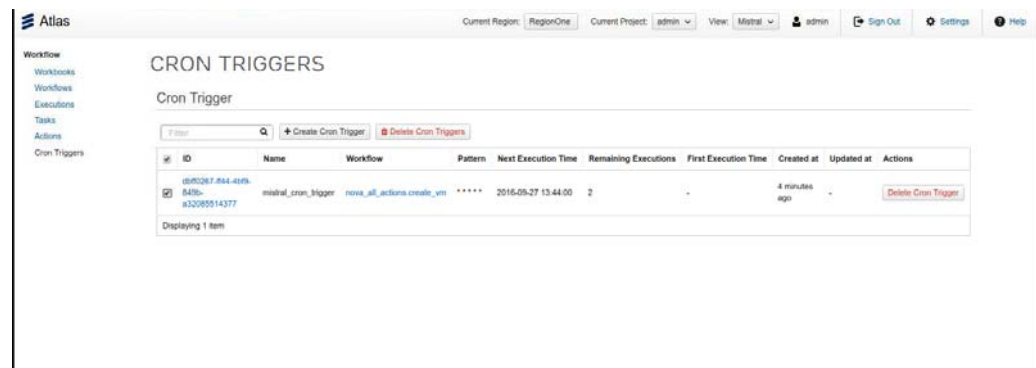


Figure 26 Delete Cron Trigger

7.8 Delete Execution

To delete an execution, perform the following steps:

1. Log on to the Atlas dashboard, select the appropriate project with **WorkFlow** view, and click the **Executions** category.
2. Select the checkbox next to the execution to be deleted.
3. Select **Delete Executions** and again select **Delete Executions** as shown in Figure 27.

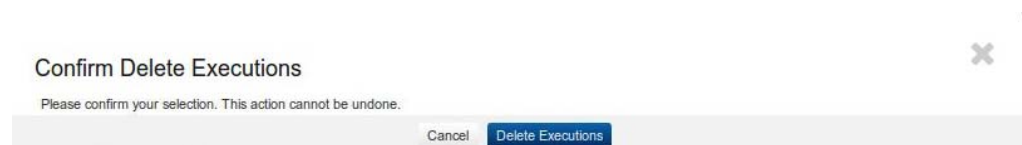


Figure 27 Delete Execution



8 Deployment Wizard from UI

Deployment wizard allows to provide customized resources while launching a stack from a catalog application. It allows the user to provide extra properties for the resources existing in the application.

Note: Deployment wizard window has help content for each tab which can be viewed by clicking **?**, which helps in understanding the usage.

To launch stack using deployment wizard from catalog panel, perform the following steps:

1. Log on to the Atlas dashboard.
2. Select the appropriate project in the project field and select **Project** in the **View** field.
3. Select the **Catalog** category.
4. Select **Launch** in the row of the application that is to be used for launching the stack.
5. In the **Environment** window, select the **Load environment variables from a file** button, and select the file with environment variables to upload.

Launch Stack

1 Environment ✓

2 Availability Zones ✓

3 Flavors ✓

4 Security Groups ✓

5 Configuration for Instance ✓

6 Metadata ✓

7 Launch Stack ✓

Environment

Set stack environment

Custom environment variables

Script size: 0 bytes (Max: 16Kb)

Load environment variables from a file

Cancel Next -> Launch Stack

Figure 28 The Environment Window

6. Select **Next**.
7. In the **Availability zone** window, specify the following fields:



Instances

Zones (Optional)

Names of instances in application

Select zone in the row of an instance to which zone has to be changed.

Launch Stack

1 Environment ✓

2 Availability Zones ✓

3 Flavors ✓

4 Security Groups ✓

5 Configuration for Instance ✓

6 Metadata ✓

7 Launch Stack

Availability Zones

Select availability zones for instances

Instances	Zones
vm1	nova

Cancel Next -> Launch Stack

Figure 29 The Availability Zone Window

8. Select **Next**.

9. In the **Flavors** window specify the following fields:

Instances

Extra specs (Optional)

Names of instances in application

Select **Add Extra Specs**. Specify the extra specs in application `key=value,key=value` format. Select **Enter**. (Or) Select flavor in the row of an instance to which flavor has to be changed.

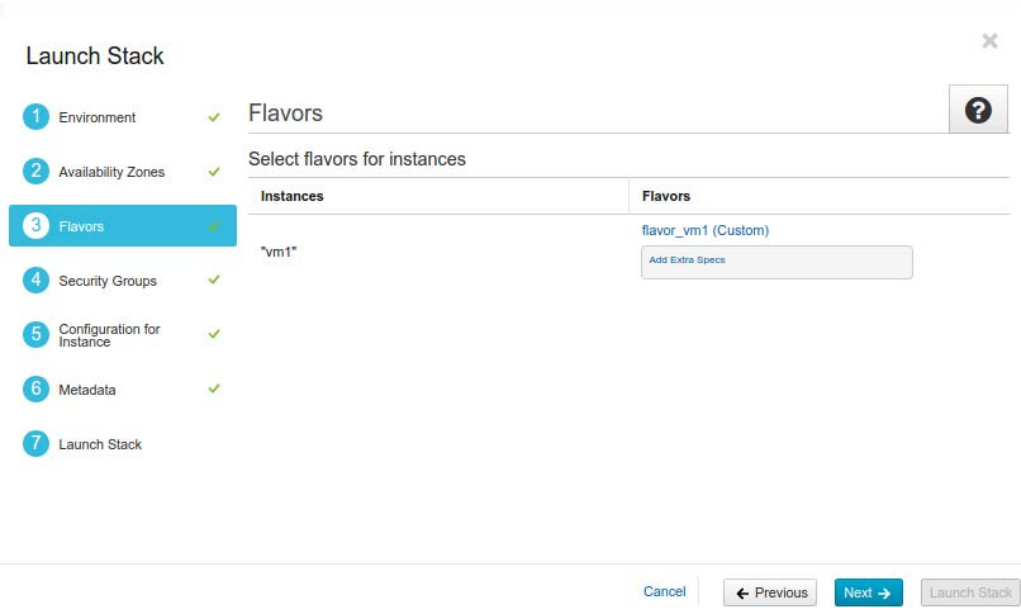


Figure 30 The Flavors Window

10. Select **Next**.
11. In the **Security Groups** window, specify the following fields:

InstancesNames of instances in application

Security Groups (Optional)Click on the Close **X**. Select **Group** in the row of an instance or ports under the instance to which **Security Group** has to be changed.
- Note:**

CEE does not support security groups. For CEE, no security groups need to be assigned. Assigned security groups have no effect on CEE operations.



Launch Stack

1 Environment ✓

2 Availability Zones ✓

3 Flavors ✓

4 Security Groups ✓

5 Configuration for Instance ✓

6 Metadata ✓

7 Launch Stack

Security Groups

Select security groups for Instances/Ports

Instances	Security Groups
vm1	
port_1	Select Groups

Cancel Previous Next Launch Stack

Figure 31 The Security Groups Window

12. Select **Next**.

13. In the **Configuration for Instance** window, specify the following fields:

Instances	Names of instances in application
Files (Optional)	Click on Add file . Select the file to inject into an instance in the row of an instance to which Files have to be injected and provide target path for file to be placed (Optional). Click on Add more files to add extra files.
User Data (Optional)	Click on Add Userdata . Select the user data file in the row of an instance to which user data has to be added.

Note: The maximum body size for HTTP requests is set to 112 KB in the default settings of the Nova API. Larger environment files cannot be injected, even if the `injected_file_content_bytes` quota value is changed for the specific tenant. To increase the default value, set `quota_injected_file_content_bytes` in `/etc/nova/nova.conf` on all controllers and restart `nova-api`.

Launch Stack

1 Environment ✓

2 Availability Zones ✓

3 Flavors ✓

4 Security Groups ✓

5 Configuration for Instance ✓

6 Metadata ✓

7 Launch Stack

Configuration for Instance

File Injection and User Data

Instances	Files	User Data
vm1*	Add file	Add Userdata

?

Cancel

← Previous

Next →

Launch Stack

Figure 32 The Configuration for Instance Window

14. Select **Next**.
15. In the **Metadata** window, specify the following fields:

Instances	Names of instances in application
Metadata (Optional)	Select Add Metadata , and specify metadata in the text area in key=value, key=value format. Select Save.



Launch Stack

1 Environment ✓

2 Availability Zones ✓

3 Flavors ✓

4 Security Groups ✓

5 Configuration for Instance ✓

6 Metadata ✓

7 Launch Stack

Metadata

Select metadata for instances

Instances	MetaData
vm1	

Add metadata

Cancel < Previous Next > Launch Stack

Figure 33 The Metadata Window

16. Select **Next**.

17. In the **Launch Stack** window, specify the following fields:

Stack Name	Enter a name to identify the stack
Creation Timeout (Minutes)	Specify the timeout interval for launching the stack. If the task times out, the stack is not launched.
Rollback on Failure (Optional)	Select the check box if you want the service to roll back changes in case the stack fails to launch.
Password	Specify the password to be used by the default user for creating the stack.
Additional Fields	Additional fields generated by the application template.

Note: Depending on the application template, the number of additional fields vary.

Launch Stack

1 Environment

2 Availability Zones

3 Flavors

4 Security Groups

5 Configuration for Instance

6 Metadata

7 Launch Stack

✓

✓

✓

✓

✓

✓

✓

Launch Stack

Stack Details

Stack Name*

Stack Name

Creation Timeout(mins)*

60

Rollback on failure

Disabled

Password for Admin*

Password

Catalog specific settings

N1 subnet * ?

N1 subnet

N1 gateway * ?

Cancel

Previous

Launch Stack

Figure 34 The Launch Stack Window

18. Select **Launch Stack**.

Atlas dashboard shows the launched stack in the **Stacks** category.

9 Stack Topology

Stack topology provides an interface to look and analyze resource created and or used by stack. Figure 35 shows **Stack Topology** and its controls.

9.1 Navigation



1. Log on to the Atlas dashboard and select the appropriate project in the **Current Project** field.
2. Select project in the **View** field.
3. Click **Stacks Category**.
4. Click **Stack Name** in the row of the application to be used for viewing stack topology.
5. Click the **Topology** tab.



Figure 35 Overview of Stack Topology

9.2 Icons

Table 1 Stack Topology Icons

Resource	Icon
Server	
Flavor	
Flavor Pinned	
Network	
Subnet	
Router	
Compute	
Port	
Volume	
Heat Delay	

9.3 Edges and Connections

Edges show the connection between nodes, the connection can be highlighted by hovering on the node as shown in Figure 36.

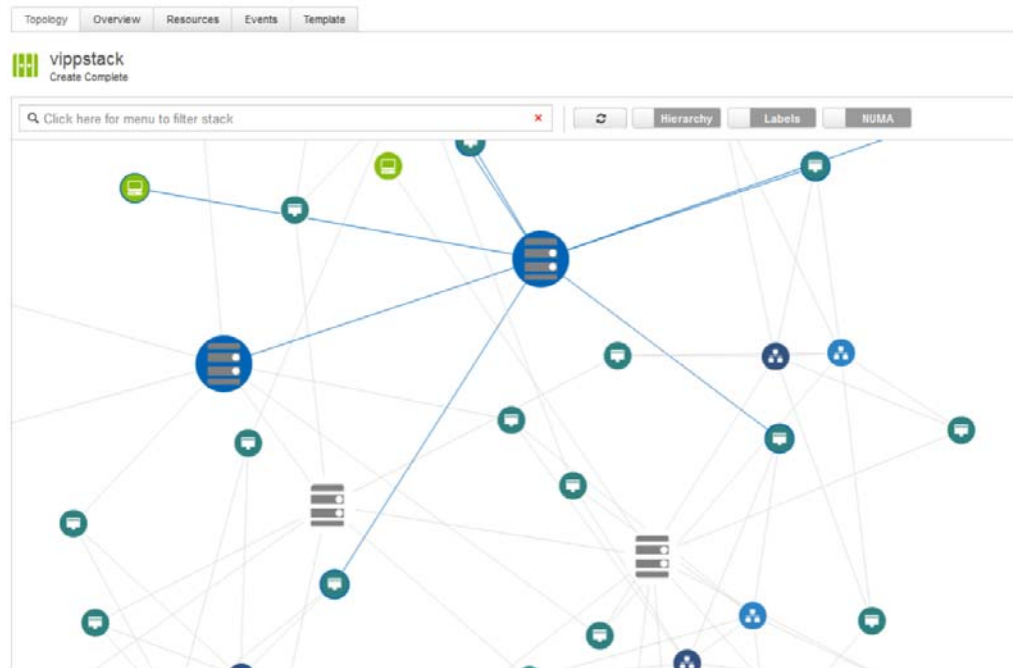


Figure 36 Highlighted Node Connections

9.4 Hierarchy

Use Hierarchy control to switch between random and hierarchy mode as shown in Figure 37.



Figure 37 Stack Topology Hierarchy

The reset button changes the topology from hierarchy back to random.



Figure 38 Reset Button

9.5

Labels

Use Labels control to show and hide names of resources. Click the node for a tooltip with more information on the node.

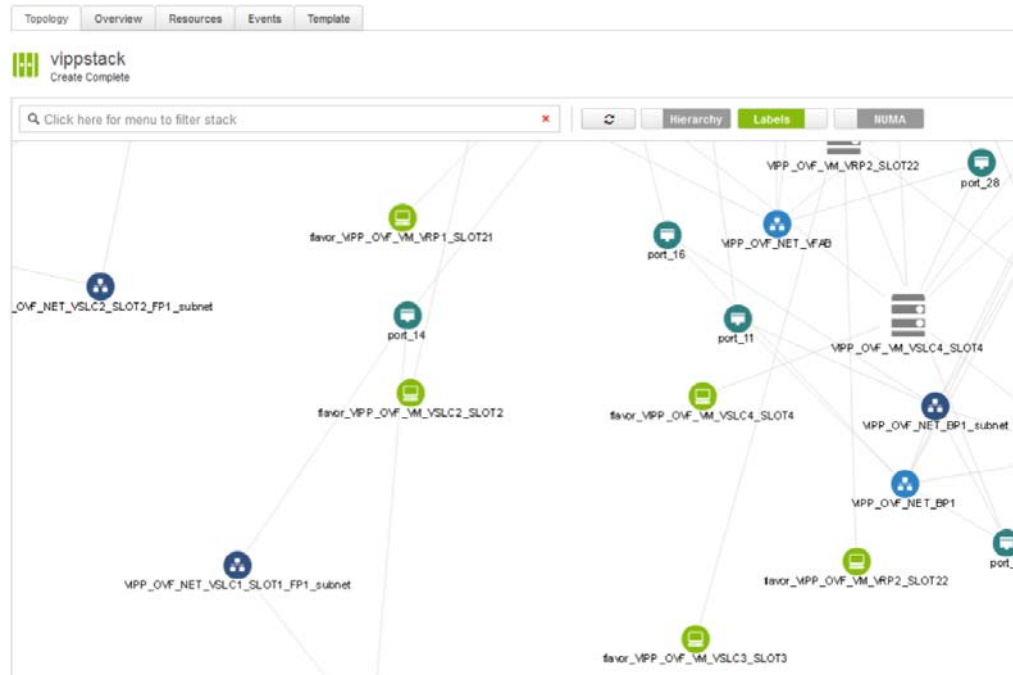


Figure 39 Nodes Labels

9.6 NUMA/CPU Pinning

Click **NUMA** to show the connection of a VM with a compute through VM and the pinning information of the flavor.

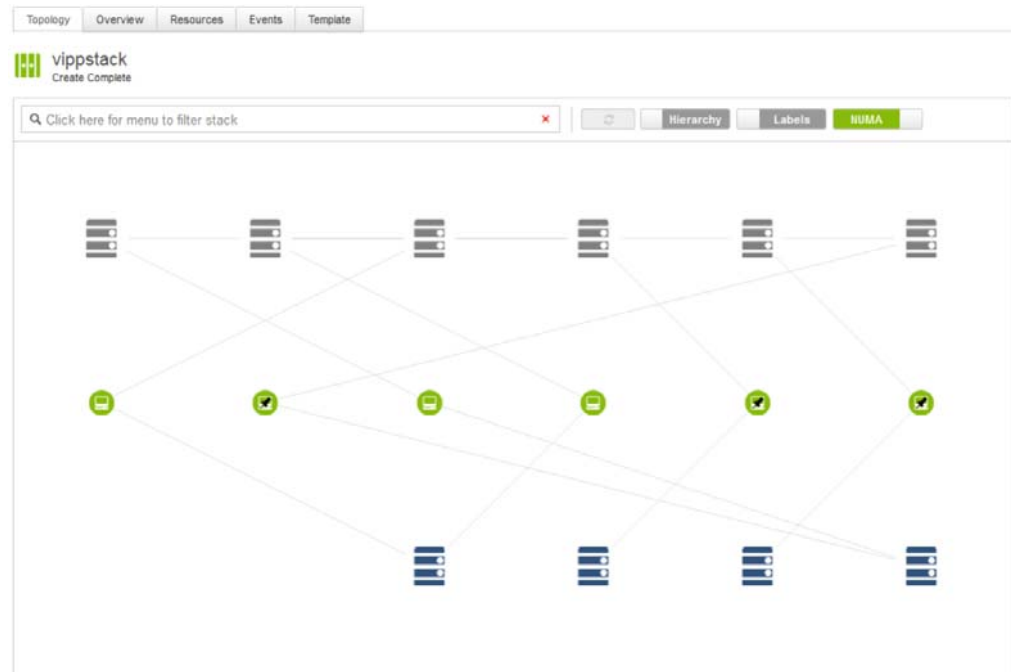


Figure 40 NUMA Topology

The pin symbol on Flavor indicates that its pinned and it provides pinning information in tooltip as shown in Figure 41.

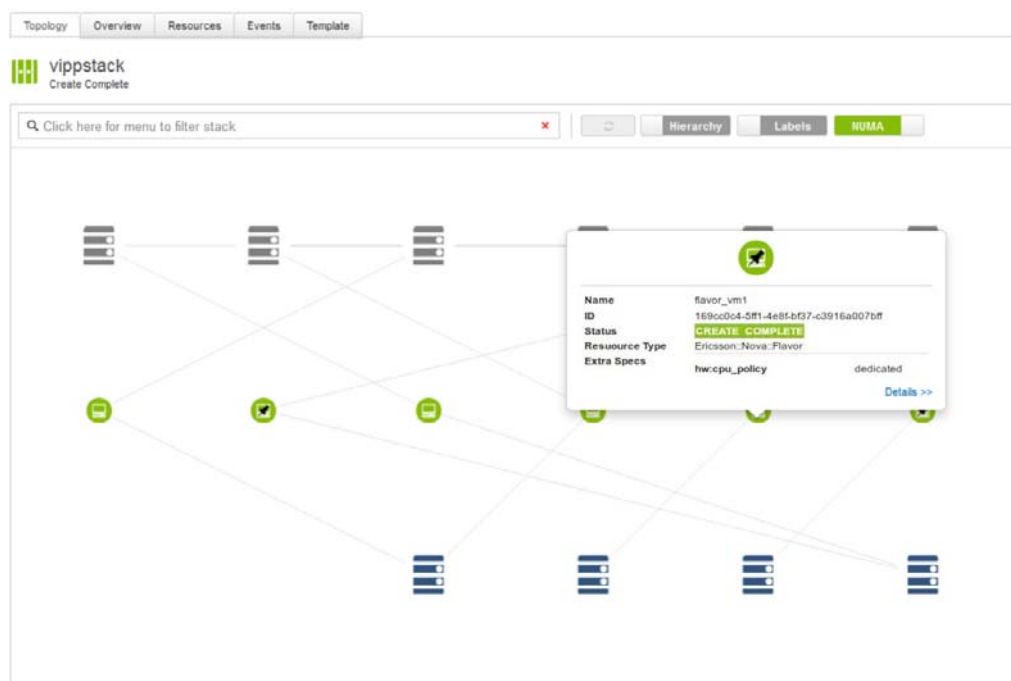


Figure 41 NUMA Topology Pop-up

By hovering the mouse on Compute, it shows the VM(s) on the compute:

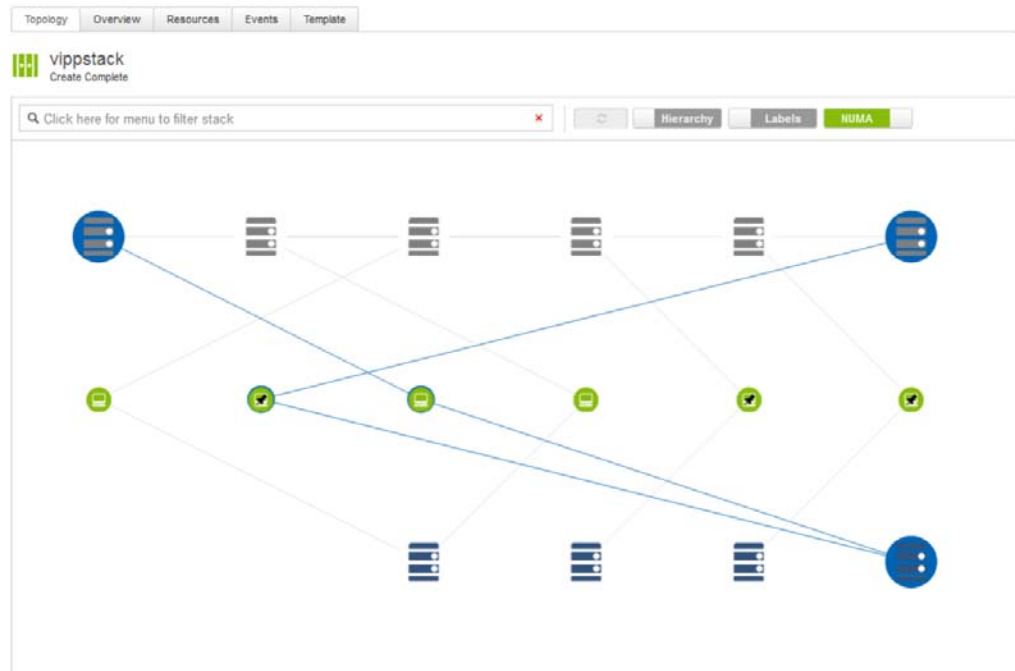


Figure 42 Numa Topology Compute Link

Note: NUMA check disables Hierarchy and Reset options.

9.7 Topology Search

Search for nodes based on resource type, name and state of the nodes in the **Search** bar:

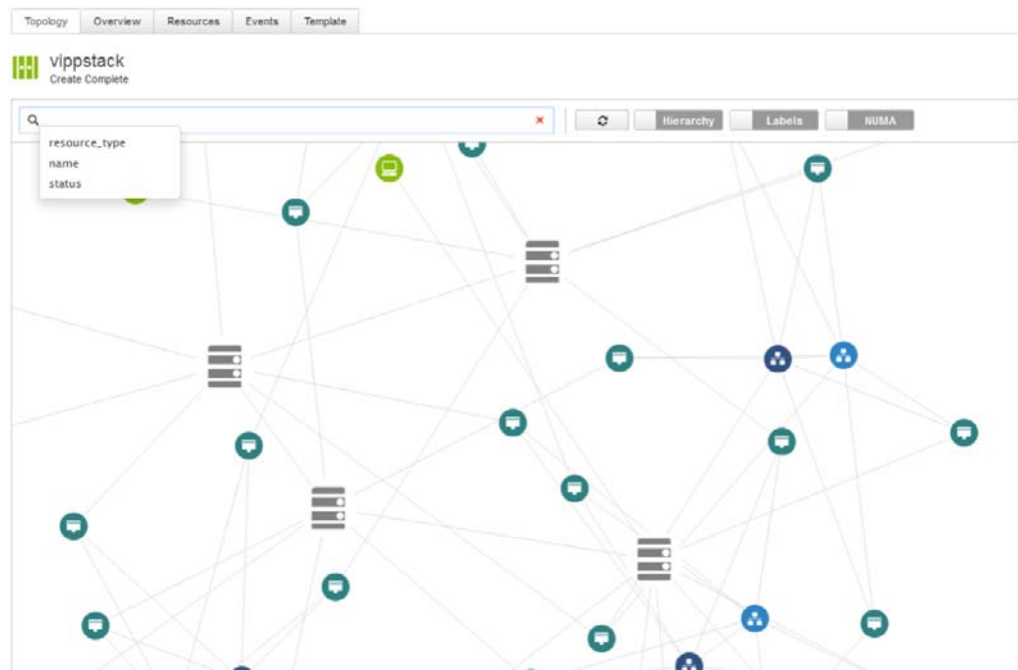


Figure 43 Topology Search Options

You can also search by using a combination of filters:

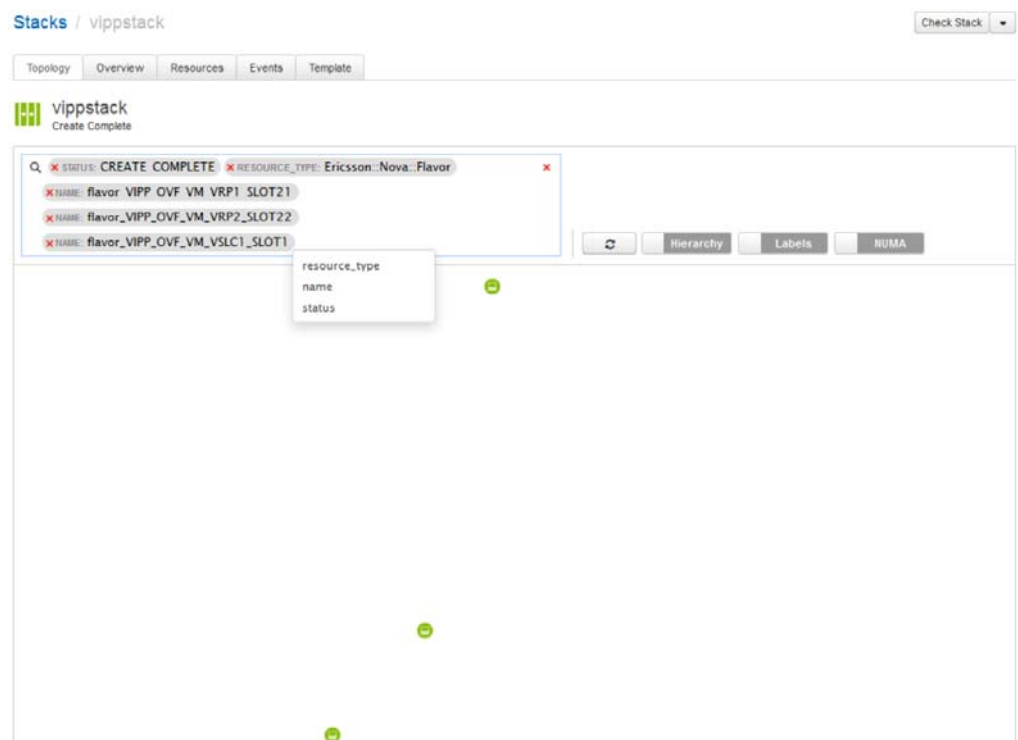


Figure 44 Stack Topology Search by Combining Filters



10 Stack Overview

Stack Overview displays the parameters and details of the stack. The stack resource summary contains the number of each resource type present in the stack. Each resource type is assigned a unique icon for easy identification of the resource type.

Stack overview tab is divided into seven sections:

- Stack resource summary
- Stack information
- Stack parameters
- Launch parameters
- Outputs
- Activity summary
- Most recent events

10.1 Stack Resource Summary

Only the first row of resource types is displayed initially. To view the resource types, click **View all** (displaying the total number of resource types available).

10.2 Stack Information

Stack information contains the following information about the stack:

- Description of the stack
- ID of the stack
- Name of the stack
- Region name

10.3 Stack Parameters

Stack parameters display the following information:

- `project_id`
- `stack_id`

- `stack_name`

10.4 Launch Parameters

Launch parameters specifies parameters such as timeout and rollback.

10.5 Outputs

Outputs are displayed below the Launch parameters, which typically contains the output of the stack.

10.6 Activity Summary

Activity summary summaries the total number of events and total number of error events.

10.7 Most Recent Events

This section contains a table with the most recent events. Click the link **Complete event list** for a complete list.

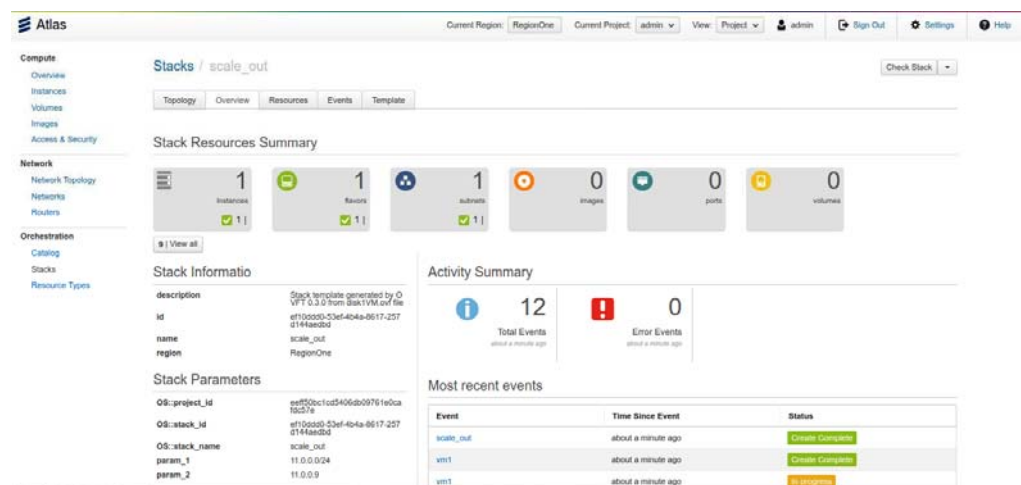


Figure 45 Stack Overview

11 Stack Resources

Stack resources provide a clear view of all the resources in a stack.

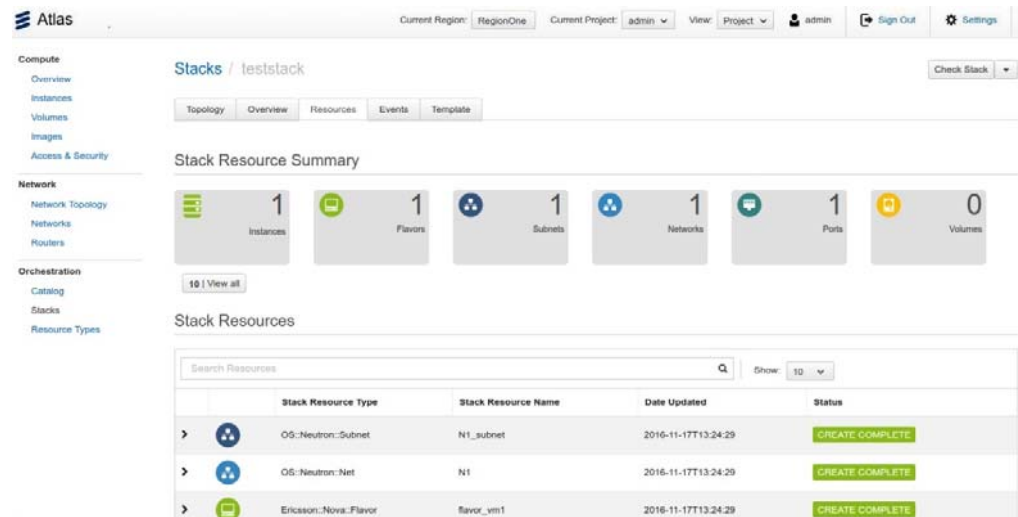


Figure 46 Overview of Stack Resources

To view Stack resources overview, perform the following steps:

1. Log on to the Atlas dashboard.
2. Select the appropriate project in the current project field, and select **Project** in the **View** field.
3. Click the **Stacks Category**.
4. Click the **Stack Name** of any launched stack.
5. Click the **Resources** tab to display the resources of the stack.

Stack resource summary gives the details of number of resources present under each resource type. The count of active and error state resources are showed using valid and invalid icons.

The following Stack resources features are available:

- Resource Search: Enter any word in search bar and then press **Enter**.
- Accordion: > hide extra information and shows it when clicked.
- Pagination: Select number of resources to be shown in the drop down list. Click to select: **First - Go** to first page and **Previous - Go** to previous page. **Number - Go** to particular page. **Next - Go** to next page. **Last - Go** to the last page.



- Pinning: The Instance (VM) which is pinned to a particular host is shown with a pin symbol, click **Accordion (>)** to view details.
- Resource Usage Graph: The Usage of resources is shown in the form of line graphs.
- VCPU Utilization: The VCPU Utilization of an instance is shown with respect to the time. Click > of any instance to view graph.
- Disk Operations: The Disk Operations taken place in an instance is shown with respect to the time. Click > of any instance to view graph.

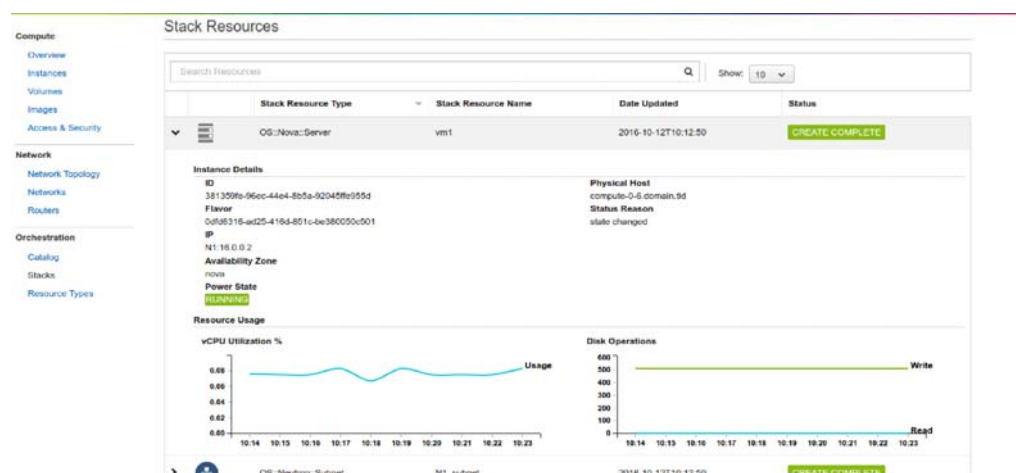


Figure 47 Instance Details

12 Stack Events

A series of events is generated during the life cycle of a stack. Events can be viewed on clicking the events tab. The page is divided into two section.

- Event Summary
- Events

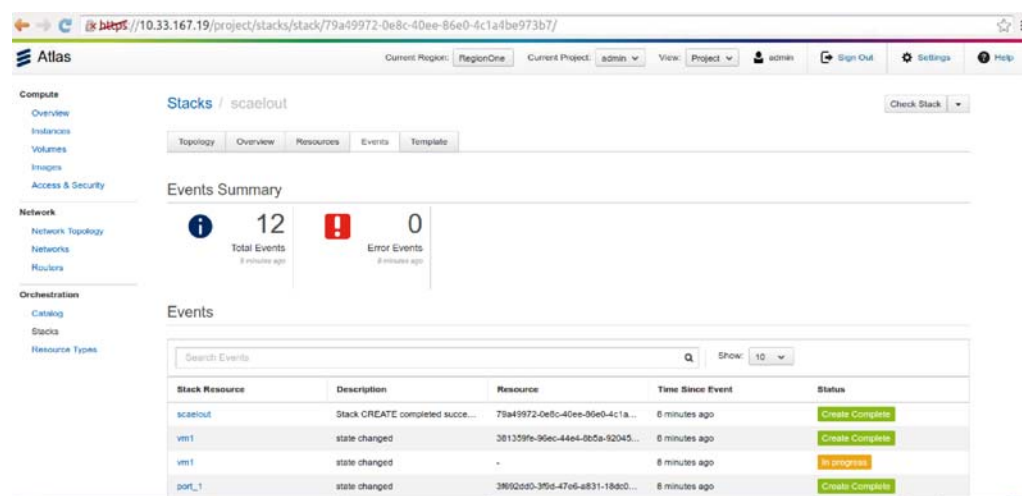


Figure 48 Stack Events

12.1 Event Summary

The first section of the stack events page presents the summary of the stack, displaying the total number of events and number of error events.

12.2 Events

The table with series of events contains the followings:

- Unique icon for each resource.
- Name of the stack resource, with link to the detail overview of the stack resource.
- Description
- Resource ID
- Time since the event has occurred
- Status: Active: Green. In progress: Yellow. Failed: Red.



Events can be filtered based on name of the resource, description, Resource ID, Time and status. The filter dynamically filters out the contents as the user types in the filter bar. The user can also set the number of events to be displayed (10 or 20).



13 Atlas Help Center

This section describes how to display different types of information, using the Atlas GUI.

The help center is shown in Figure 49.

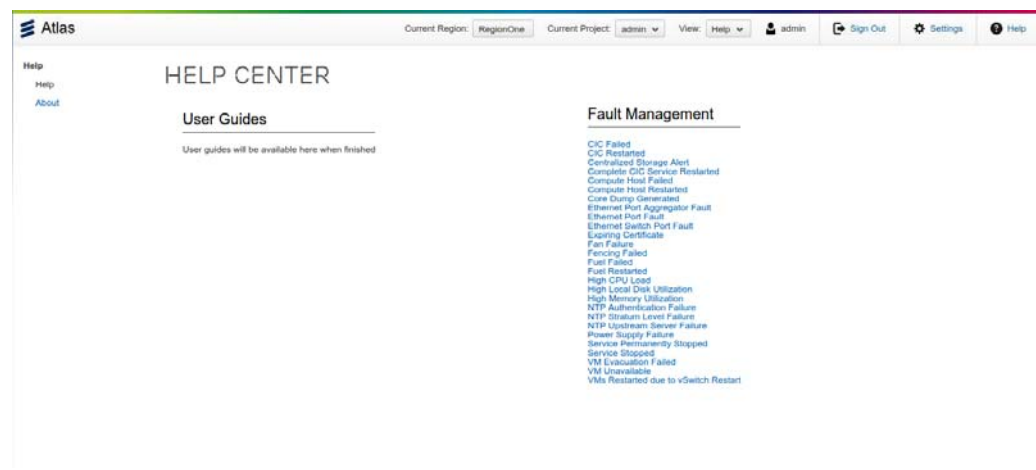


Figure 49 Help Center

13.1 Fault Management

To reach the fault management documentation, perform the following steps:

1. Log on to the Atlas dashboard.
2. Select the appropriate project in the **Current Project** field, and select **Project** in the **View** field.
3. Click **Help** in the top bar.
4. Open a specific fault management document by clicking its title under the **Fault Management** heading.

13.2 User Guides

To open user guides, perform the following steps:

1. Log on to the Atlas dashboard.
2. Select the appropriate project in the **Current Project** field, and select **Project** in the **View** field.
3. Click **Help** in the top bar.



4. Open a specific user guide by clicking its title under the **User Guide** heading.

13.3 Atlas Product Information

This section describes how to display Atlas and CEE product information from the Atlas dashboard. The content of the product information page is shown in Figure 50.

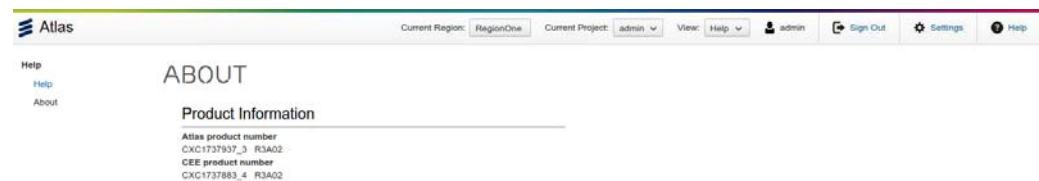


Figure 50 Atlas and CEE Product Number and Revision

To display Atlas and CEE product information, perform the following steps:

1. Log on to the Atlas dashboard.
2. Select the appropriate project in the **Current Project** field, and select **Project** in the **View** field.
3. Click **Help** in the top bar.
4. Click **About** on the **Help** page.