

Atlas Backup

Cloud Execution Environment

USER GUIDE

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1 Introduction

This document describes how to create a backup of the Atlas configuration for the Cloud Execution Environment (CEE).

The script that creates the backup is invoked by the `atlas backup-create` command. For more information about the `atlas` command and its subcommands, refer to the [Atlas Software Management Guide](#).

The Atlas configuration backup is generated by using the `atlas` command, executed on the Atlas Virtual Machine (VM). The generated backup contains key configuration files. The backup can be used to restore the Atlas configuration to a previous state, if needed.

Note: According to default configuration, Atlas creates periodic backup twice a day, using the password defined in the `BACKUP_PASSWORD` variable in `localrc`. The default password is randomly generated and can be changed in `localrc`. The password is required for the periodic backup and restore procedures. Periodic backup can be disabled and the time interval for taking these backups can be configured in `localrc`. To make the changes in `localrc`, refer to [Atlas SW Installation](#).

For instructions on restoring Atlas using a backup, refer to the document [Atlas Restore](#).

Refer to the document [Backup and Restore Overview](#) for more information on Atlas backup, including the following:

- Backup contents
- Backup sizes and locations
- Retention policies
- Procedure durations
- Recommended backup strategy

For an overview of all backup and restore options available in CEE, refer to the [Backup and Restore Overview](#).

1.1 Prerequisites

This section describes the prerequisites which must be fulfilled before a backup of the Atlas configuration files can be taken.



1.1.1

Conditions

Before the backup procedure can be performed, the following conditions must apply:

- The user must have root access to be able to run the `atlas` command.
- The location of a predefined persistent storage must be known.



2 Atlas Backup

The backup feature saves the configuration files and folders contained in the CEE Atlas image in a directory of encrypted `tar` files.

The command syntax is as follows:

```
atlas backup-create [--name <backup_name>] --p=>
<backup_password>
```

The optional parameter `--name` can be used to name the backup. The default name is `AtlasBackup`. The backup name can only contain letters, numbers, and underscores. No special characters are allowed.

The positional parameter `--p` is used to encrypt the backup.

To back up the Atlas configuration, do the following:

1. Log on to the Atlas VM.
2. Start the backup procedure by issuing the following command:

```
atlasadm@atlas:~$ sudo atlas backup-create --name=>
<backup_name> --p <backup_password>
```

The following is displayed in the terminal window:

```
Tue 02 May 2017 08:48:23 INFO: Creating Backup =>
"AtlasBackup" with ID=1493707703...
Tue 02 May 2017 08:48:23 INFO: Backing up password =>
configuration, home directories and database...
Tue 02 May 2017 08:48:58 INFO: Done.
Tue 02 May 2017 08:49:05 INFO: Encrypting...
Tue 02 May 2017 08:49:05 INFO: Done.
Tue 02 May 2017 08:49:05 INFO: Uploading Backup =>
"AtlasBackup" of size 654M to Swift...
Tue 02 May 2017 08:49:15 INFO: Done.
Tue 02 May 2017 08:49:15 INFO: Backup Complete!
```

3. By using the following command, verify that the backup file has been created:

```
atlasadm@atlas:~$ sudo atlas backup-list
```

The command displays the following in the current terminal window:

ID	Name	Storage	Size	Date	Time
1493707703	AtlasBackup	SWIFT	654M	2-May-2017	08:49:05

4. Save the ID and the password of the backup for future use.



Note: The ID is used for downloading the backup files from Swift and for restoring Atlas from the backup, as described in [Atlas Restore](#). The password is used for restoring Atlas from backup.



3 Deleting Backup

This section describes how to delete an Atlas backup.

The command syntax is as follows:

```
atlas backup-delete --d <id> [--all]
```

The positional parameter **--d** is the ID of the backup to be deleted

The optional parameter **--all** can be used to delete a backup uploaded to Swift as well as the local backup. If unspecified, only the local backup is deleted.

An example of the command is:

```
atlasadm@atlas:~$ sudo atlas backup-delete --d =>  
1493707703 --all
```

An example of the printout is:

```
Tue 02 May 2017 10:09:20 INFO: Deleting Backup 1493707703  
Tue 02 May 2017 10:09:24 INFO: Backup Delete Complete!
```

ID	Name	Storage	Size	Date	Time

As the backup is deleted with the **--all** option, it is deleted from Swift as well:

```
root@atlas:/var/archives/# =>  
swift list AtlasBackups | grep <id>
```

An example of the command is:

```
root@atlas:/var/archives/# =>  
swift list AtlasBackups | grep 1493707703
```

There is no output printed.