

# Atlas Restore

## Cloud Execution Environment

### USER GUIDE

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# 1 Introduction

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

A restore of CEE Atlas is done by using the `atlas` command, executed from the Atlas Virtual Machine (VM). The input to restore the Atlas configuration is a previously taken backup, containing key configuration files.

For more information about the `atlas` command used for the restore procedure, refer to [Atlas Software Management Guide](#).

Refer to the document [Backup and Restore Overview](#) for more information on Atlas restore, 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 Atlas can be restored.

### 1.1.1 Conditions

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

- The user needs root access to do a restore, using the `atlas` command.
- A valid backup file must be available in a predefined persistent storage location.



## 2 Downloading Backup Files from Swift

This section describes how backups are downloaded, that is copied, from the AtlasBackups container in Swift.

To download a backup from Swift, do the following:

1. Log on to the Atlas VM.
2. Switch user from atlasadm to root:
 

```
atlasadm@atlas:~$ sudo -i
```
3. Ensure that the current directory is set to the backup directory:
 

```
root@atlas:~# cd /var/archives/
```
4. Perform the following steps to verify that the backup files to download are available in Swift:
  - a. If the Atlas backup ID is known, continue with Step c.
  - b. If the Atlas backup ID is unknown, search the Atlas backup ID from the list of the available backups in Swift:

```
root@atlas:/var/archives# swift list AtlasBackups -d /
AtlasBackup1520490601/
AtlasBackup1520490602/
```

The command output displays the Atlas backup directories in the following format: <atlas\_backup\_name><backup\_id>

- c. List the files stored for the given backup ID:

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

Where backup\_id is the ID of the backup.

See below an example of the command and the output:

```
root@atlas:/var/archives/# swift list AtlasBackups | grep 1520490601
```

```
AtlasBackup1520490601/.meta
AtlasBackup1520490601/AtlasBackup.1520490601-all-mysql-databases.sql.bz2.enc
AtlasBackup1520490601/AtlasBackup.1520490601-etc-puppet-hieradata-passwords.yaml.master.tar.gz.enc
AtlasBackup1520490601/AtlasBackup.1520490601-home-atlasadm.master.tar.gz.enc
AtlasBackup1520490601/AtlasBackup.1520490601-root.master.tar.gz.enc
AtlasBackup1520490601/AtlasBackup.1520490601.sha256.enc
a
```

5. Download the backup for a specified ID:



```
root@atlas:/var/archives/# swift download =>  
AtlasBackups -p <atlas_backup_name><backup_id>
```

where `atlas_backup_name` is the name of the backup and `backup_id` is the ID of the backup.

And example of the command is the following:

```
root@atlas:/var/archives# swift download =>  
AtlasBackups -p AtlasBackup1520490601
```



## 3 Atlas Restore

The restore feature replaces key configuration files and folders with the content in the backup.

To restore Atlas, do the following:

1. Determine if a local backup file is available, using the following `atlas` command:

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

2. Select the relevant one of the following alternatives:

- a If a local backup file is available, continue with Step 3.
- b If no local backup is available, do the following:

Copy the desired backup from the predefined persistent storage location to the directory `/var/archives`.

For information on how to copy the backup using Swift, see Section 2 on page 2.

3. Do the following:

```
atlasadm@atlas:~$ sudo atlas backup-restore --d <backup_id> =>  
--p <backup_password>
```

Example:

```
atlasadm@atlas:~$ sudo atlas backup-restore --d 1520490601 =>  
--p <backup_password>
```

The following output is received:

```
Tue 02 May 2017 11:37:48 INFO: Starting Atlas restore...  
Tue 02 May 2017 11:37:48 INFO: Restoring database...  
Tue 02 May 2017 11:37:49 INFO: Done.  
Tue 02 May 2017 11:37:49 INFO: Restoring etc-puppet-hieradata-passwords.yaml...  
Tue 02 May 2017 11:37:49 INFO: Done.  
Tue 02 May 2017 11:37:49 INFO: Restoring home-atlasadm...  
Tue 02 May 2017 11:37:49 INFO: Done.  
Tue 02 May 2017 11:37:49 INFO: Restoring root...  
Tue 02 May 2017 11:37:56 INFO: Done.  
Tue 02 May 2017 11:37:56 INFO: Verifying users...  
Tue 02 May 2017 11:38:29 INFO: Applying configuration...  
Tue 02 May 2017 11:38:47 INFO: Restarting services...  
Tue 02 May 2017 11:38:50 INFO: Done.  
Tue 02 May 2017 11:38:50 INFO: Successfully restored from backup:1520490601
```

4. Verify that Atlas is operational.





**Note:** For an example of one way to verify that Atlas is operational, refer to section [Post-Upgrade Activities in Atlas SW Upgrade](#).