



Linux Academy
Live! Lab

Creating a Volume Snapshot and Backup

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Lab Connection Information

- Labs may take up to five minutes to build
- Access to the Horizon Dashboard is provided on the Live! Lab page, along with your login credentials
- SSH information is provided on the Live! Lab page
- Labs will automatically end once the allotted amount of time finishes

Related Courses

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[Manage Volume
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*... and you can
always send in a
support ticket on
our website to talk
to an instructor!*

Introduction

In this lab, we review how to create a snapshot of a volume and how to make a backup of that volume from which we can restore.

Using the SSH details on the **Live! Lab** page, log in to your server, then log in to the Horizon Dashboard using the *demo* user and *demo* tenant to download the **OpenStack RC File**, located under the **API Access** tab, under **Security & Access**. Copy the file to your server, giving it the name of *demo.sh*.

Source the file, inputting *demo's* password when prompted:

```
root@openstack:~# source demo.sh
```

Creating a Volume Snapshot

Create a new volume:

```
root@openstack:~# cinder create --display-name volume1 1
```

Property	Value
attachments	[]
availability_zone	nova
bootable	false
consistencygroup_id	None
created_at	2016-04-11T20:24:33.000000
description	None
encrypted	False
id	ea91a07e-c3b5-4854-8aea-d890869c65fe
metadata	{}
multiattach	False
name	volume1
os-vol-tenant-attr:tenant_id	42863e58503340c4bdee5012627a4aca
os-volume-replication:driver_data	None
os-volume-replication:extended_status	None
replication_status	disabled
size	1
snapshot_id	None
source_volid	None
status	creating
user_id	75f1e80172cc49bab8ebbe03931cc08f
volume_type	lvmdriver-1

This creates a 1 GB volume called *volume1*.

List your available volumes to retrieve the **ID** of *volume1*:

```
root@openstack:~# cinder list
```

ID	Status	Name	Size	Volume Type	Bootable	Multiattach	Attached
ea91a07e	available	volume1	1	lvmdriver-1	false	False	

Create a snapshot:

```
root@openstack:~# cinder snapshot-create --force True --display-name snap1 ea91a07e-c3b5-4854-8aea-d890869c65fe
```

Property	Value
created_at	2016-04-11T20:25:33.944797
description	None
id	f172151d-d4ec-4d8e-9a1e-4d5491c2b71d
metadata	{}
name	snap1
size	1
status	creating
volume_id	ea91a07e-c3b5-4854-8aea-d890869c65fe

`--force True` forces the snapshot to take as soon as the command is run. We gave it the name of `snap1`, and `ea91a07e-c3b5-4854-8aea-d890869c65fe` should be replaced with your own volume's ID.

You can run `cinder snapshot-list` to view all snapshots.

Creating a Volume Backup

More than taking snapshots, we also need to know how to take *backups* of our volumes. Once more run `cinder list` to retrieve the **ID** of your *volume1* volume.

To create a backup, run the following, replacing `ea91a07e-c3b5-4854-8aea-d890869c65fe` with your volume's ID.

```
root@openstack:~# cinder backup-create ea91a07e-c3b5-4854-8aea-d890869c65fe
```

Property	Value
id	e9805fd7-253b-45d7-b8ea-2334ca1a8caf
name	None
volume_id	ea91a07e-c3b5-4854-8aea-d890869c65fe

To confirm, run `cinder backup-list`, checking back until the status has changed from `creating` to `available`.

We can now restore from this backup. To do this, run:

```
root@openstack:~# cinder backup-restore e9805fd7-253b-45d7-b8ea-2334ca1a8caf
```

Property	Value
backup_id	e9805fd7-253b-45d7-b8ea-2334ca1a8caf
volume_id	818f0ef8-7ef1-42da-be1e-39f9d3134294
volume_name	restore_backup_e9805fd7-253b-45d7-b8ea-2334ca1a8caf

Where `e9805fd7-253b-45d7-b8ea-2334ca1a8caf` is your *backup's* ID. Run `cinder list` again to confirm that your new backup has been generated.