

► Guided Exercise

Expanding Red Hat Ceph Storage Cluster Capacity

In this exercise, you will expand the cluster by adding new OSDs to each of the nodes in the cluster, and by adding an OSD node to the Ceph cluster.

Outcomes

You should be able to expand your cluster by adding new OSDs.

Before You Begin

Start this exercise only after having successfully completed the previous *Guided Exercise: Deploying Red Hat Ceph Storage*:

As the student user on the workstation machine, use the `lab` command to prepare your system for this exercise.

```
[student@workstation ~]$ lab start deploy-expand
```

This command confirms that the Ceph cluster is reachable and provides an example service specification file.

Instructions

In this exercise, expand the amount of storage in your Ceph storage cluster.

- 1. List the inventory of storage devices on the cluster hosts.

- 1.1. Log in to `serverc` as the `admin` user and use `sudo` to run the `cephadm` shell.

```
[student@workstation ~]$ ssh admin@clienta
[admin@clienta ~]# sudo cephadm shell
[ceph: root@clienta /]#
```

- 1.2. Display the storage device inventory on the Ceph cluster.

```
[ceph: root@clienta /]# ceph orch device ls
```

Hostname	Path	Type	Serial	Size	Health
clienta.lab.example.com	/dev/vdb	hdd	f97f3019-2827-4b84-8	10.7G	Unknown
N/A	Yes				
clienta.lab.example.com	/dev/vdc	hdd	fdaeb489-de2c-4165-9	10.7G	Unknown
N/A	Yes				
clienta.lab.example.com	/dev/vdd	hdd	0159ff1a-d45a-4ada-9	10.7G	Unknown
N/A	Yes				
clienta.lab.example.com	/dev/vde	hdd	69f43b17-9af3-45f1-b	10.7G	Unknown
N/A	Yes				