▶ **Guided Exercise**

Creating BlueStore OSDs Using Logical Volumes

In this exercise, you will create new BlueStore OSDs.

Outcomes
You should be able to create BlueStore OSDs and place the data, write-ahead log (WAL), and metadata (DB) onto separate storage devices.

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

```
[student@workstation ~]$ lab start component-osd
```

This command confirms that the hosts required for this exercise are accessible.

Instructions

▶ **1.** Log in to clienta 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 /]#
```

▶ **2.** Verify the health of the cluster. View the current cluster size. View the current OSD tree.

2.1. Verify the health of the cluster.

```
[ceph: root@clienta /]# ceph health
HEALTH_OK
```

2.2. View the current cluster storage size.

```
[ceph: root@clienta /]# ceph df
--- RAW STORAGE ---
CLASS    SIZE    AVAIL      USED  RAW USED  %RAW USED
hdd    90 GiB  90 GiB  180 MiB   180 MiB       0.20
TOTAL  90 GiB  90 GiB  180 MiB   180 MiB       0.20
...output omitted...
```

2.3. View the current OSD tree.