

► Guided Exercise

Managing RADOS Block Devices

In this exercise, you will create and configure RADOS block devices.

Outcomes

You should be able to create and manage RADOS block device images and use them as regular block devices.

Before You Begin

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

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

```
[student@workstation ~]$ lab start block-devices
```

Instructions

- 1. Verify that the Red Hat Ceph cluster is in a healthy state.

- 1.1. 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 /]#
```

- 1.2. Verify that the cluster status is `HEALTH_OK`.

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

- 2. Create a replicated pool called `test_pool` with 32 placement groups. Set the application type for the pool to `rbd`.

- 2.1. Create the pool `test_pool`.

```
[ceph: root@clienta /]# ceph osd pool create test_pool 32 32
pool 'test_pool' created
```

- 2.2. Set `rbd` as the application type for the pool.

```
[ceph: root@clienta /]# rbd pool init test_pool
```

- 2.3. List the configured pools and view the usage and availability for `test_pool`. The ID of `test_pool` might be different in your lab environment.