Guided Exercise

Importing and Exporting RBD Images

In this exercise, you will export an RBD image, then import the image into another cluster.

Outcomes

You should be able to:

- Export an entire RBD image.
- Import an entire RBD image.
- Export the changes applied to an RBD image between two points in time.
- Import the changes applied to an RBD image into another RBD image.

Before You Begin

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

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

This command confirms that the hosts required for this exercise are accessible. It also ensures that `clienta` has the necessary RBD client authentication keys.

Instructions

1. Open two terminals and log in to `clienta` and `serverf` as the `admin` user. Verify that both clusters are reachable and have a `HEALTH_OK` status.

   1.1. Open a terminal window. Log in to `clienta` as the `admin` user and use `sudo` to run the `cephadm` shell. Verify that the primary cluster is in a healthy state.

```
[student@workstation ~]$ ssh admin@clienta
...output omitted...
[admin@clienta ~]$ sudo cephadm shell
[ceph: root@clienta /]# ceph health
HEALTH_OK
```

   1.2. Open another terminal window. Log in to `serverf` as the `admin` user and use `sudo` to run the `cephadm` shell. Verify that the secondary cluster is in a healthy state.

```
[student@workstation ~]$ ssh admin@serverf
...output omitted...
[admin@serverf ~]$ sudo cephadm shell
[ceph: root@serverf /]# ceph health
HEALTH_OK
```

2. Create a pool called `rbd`, and then enable the `rbd` client application for the Ceph Block Device and make it usable by the RBD feature.