Solution

Deploying and Configuring Block Storage with RBD

In this review, you will configure a Red Hat Ceph Storage cluster for RBD using specified requirements.

Outcomes

You should be able to:

- Deploy and configure Red Hat Ceph Storage for RBD mirroring.
- Configure a client to access RBD images.
- Manage RBD images, RBD mirroring, and RBD snapshots and clones.

Before You Begin

If you did not reset your classroom virtual machines at the end of the last chapter, save any work you want to keep from earlier exercises on those machines and reset the classroom environment now.

Important

Reset your environment before performing this exercise. All comprehensive review labs start with a clean, initial classroom environment that includes a pre-built, fully operational Ceph cluster. All remaining comprehensive reviews use the default Ceph cluster provided in the initial classroom environment.

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

```
[student@workstation ~]$ lab start comprehensive-review4
```

This command ensures that production and backups clusters are running and have the RBD storage pools called `rbd`, `rbdpoolmode`, and `rbdimagemode` in both clusters, also creates the `data` image in the `rbd` pool in the production cluster.

1. Using two terminals, log in to `clienta` for the production cluster and `serverf` for the backup cluster as the `admin` user. Verify that each cluster is reachable and has a `HEALTH_OK` status.

   1.1. In the first terminal, log in to `clienta` as the `admin` user and use `sudo` to run the `cephadm` shell. Verify the health of the production cluster.