

► Lab

Managing a Red Hat Ceph Storage Cluster

In this lab, you will perform common administration and maintenance operations on a Red Hat Ceph Storage cluster.

Outcomes

You should be able to locate the Ceph Dashboard URL, set an OSD out and in, watch cluster events, find and start a down OSD, find an object's PG location and state, and view the balancer status.

Before You Begin

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

```
[student@workstation ~]$ lab start cluster-review
```

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

Instructions

1. Log in to `clienta` as the `admin` user. Verify that the `dashboard` module is enabled. Find the dashboard URL of the active MGR.
2. You receive an alert that an OSD is down. Identify which OSD is down. Identify on which node the down OSD runs, and start the OSD.
3. Set the OSD 5 daemon to the `out` state and verify that all data has been migrated off of the OSD.
4. Set the OSD 5 daemon to the `in` state and verify that PGs have been placed onto it.
5. Display the balancer status.
6. Identify the PG for object `data1` in the `pool1` pool. Query the PG and find its state.
7. Return to `workstation` as the student user.

Evaluation

Grade your work by running the `lab grade cluster-review` command from your `workstation` machine. Correct any reported failures and rerun the script until successful.

```
[student@workstation ~]$ lab grade cluster-review
```

Finish

On the `workstation` machine, use the `lab` command to complete this exercise. This is important to ensure that resources from previous exercises do not impact upcoming exercises.