Guided Exercise

Managing the OSD Map

In this exercise, you will modify and verify OSD maps for a common use case.

Outcomes

You should be able to display the OSD map and modify the OSD near-full and full ratios.

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 map-osd
```

This command confirms that the hosts required for this exercise are accessible. It resets the `full_ratio` and `nearfull_ratio` settings to the default values, and installs the `ceph-base` package on `servera`.

Instructions

1. Log in to `clienta` as the `admin` user and use `sudo` to run the `cephadm shell`. Verify that the cluster status is `HEALTH_OK`.

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

2. Run the `ceph osd dump` command to display the OSD map. Record the current epoch value in your lab environment. Record the value of the `full_ratio` and `nearfull_ratio` settings.

   Verify that the status of each OSD is `up` and `in`.

```
[ceph: root@clienta /]# ceph osd dump
epoch 478
fsid 11839bde-156b-11ec-bb71-52540000fa0c
created 2021-09-14T14:50:39.401260+0000
modified 2021-09-27T12:04:26.832212+0000
flags sortbitwise,recovery_deletes,purged_snapdirs,pglog_hardlimit
crush_version 69
full_ratio 0.95
backfillfull_ratio 0.9
nearfull_ratio 0.85
require_min_compat_client luminous
min_compat_client luminous
require_osd_release pacific
stretch_mode_enabled false
```