Solution

Configuring a Red Hat Ceph Storage Cluster

In this lab, you query and modify Red Hat Ceph Storage configuration settings.

Outcomes

You should be able to configure cluster settings.

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 configure-review
```

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

Instructions

Configure Ceph cluster settings using both the command line and Ceph Dashboard GUI. View MON settings and configure firewall rules for MON and RGW nodes.

1. Configure your Red Hat Ceph Storage cluster settings. Set `mon_data_avail_warn` to `15` and `mon_max_pg_per_osd` to `400`. These changes must persist across cluster restarts.

   1.1. Log in to `clienta` as the `admin` user and use `sudo` to run the `cephadm` shell. Configure `mon_data_avail_warn` to 15 and `mon_max_pg_per_osd` to 400.

```
[student@workstation ~]$ ssh admin@clienta
[admin@clienta ~]$ sudo cephadm shell
[ceph: root@clienta /]# ceph config set mon mon_data_avail_warn 15
[ceph: root@clienta /]# ceph config set mon mon_max_pg_per_osd 400
```

   1.2. Verify the new values for each setting.

```
[ceph: root@clienta /]# ceph config get mon.serverc mon_data_avail_warn
15
[ceph: root@clienta /]# ceph config get mon.serverc mon_max_pg_per_osd
400
```

2. Configure the `mon_data_avail_crit` setting to 10 by using the Ceph Dashboard GUI.

   2.1. Open a web browser and go to `https://serverc:8443`. If necessary, accept the certificate warning. If the URL redirects to the active MGR node, you might need to accept the certificate warning again.

   2.2. Log in as the `admin` user, with `redhat` as the password.