Guided Exercise

Managing Shared File Storage

In this exercise, you configure shared file client access with CephFS.

Outcomes

You should be able to manage CephFS and create snapshots.

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 fileshare-manage

Instructions

- The serverc, serverd, and servere nodes are an operational 3-node Ceph cluster. All three nodes operate as a MON, a MGR, and an OSD host with at least one colocated OSD.
- The clienta node is set up as your admin node server and you use it to install the Metadata Server (MDS) on serverc.
- The mycephfs CephFS file system is mounted on the /mnt/mycephfs folder with the key ring for the admin user.
- ▶ 1. Log in to clienta as the admin user.

[student@workstation ~]\$ **ssh admin@clienta** [admin@clienta ~]\$

- Create a /mnt/mycephfs/dir1 directory. Create an empty file /mnt/mycephfs/dir1/ddtest. Modify the ceph.dir.layout.stripe_count layout attribute for the /mnt/mycephfs/dir1 directory. Verify that the attribute change does not affect existing files within the directory, but that any newly created files inherit it. The attr package is preinstalled for you.
 - 2.1. Use the getfattr command to create and verify the layout of the /mnt/cephfs/dir1 directory. This command should not return any layout attribute that is associated with this directory.

```
[admin@clienta ~]$ mkdir /mnt/mycephfs/dir1
[admin@clienta ~]$ touch /mnt/mycephfs/dir1/ddtest
[admin@clienta ~]$ getfattr -n ceph.dir.layout /mnt/mycephfs/dir1
/mnt/mycephfs/dir1: ceph.dir.layout: No such attribute
```