## Viewing Daemon Logs

To view daemon logs, use the journalctl -u \$daemon@\$id command. To show only recent journal entries, use the -f option. For example, this example views logs for that host's OSD 10 daemon.

```
[root@node ~]$ journalctl -u \
ceph-ff97a876-1fd2-11ec-8258-52540000fa0c@osd.10.service
```

Ceph containers write to individual log files for each daemon. Enable logging for each specific Ceph daemon by configuring the daemon's log\_to\_file setting to true. This example enables logging for MON nodes.

[ceph: root@node /]# ceph config set mon log\_to\_file true

## **Monitoring OSDs**

If the cluster is not healthy, Ceph displays a detailed status report containing the following information:

- Current status of the OSDs (up/down/out/in)
- OSD near capacity limit information (nearfull/full)
- Current status of the placement groups (PGs)

The ceph status and ceph health commands report space-related warning or error conditions. The various ceph osd subcommands report OSD usage details, status, and location information.

## **Analyzing OSD Usage**

The ceph osd df command displays OSD usage statistics. Use the ceph osd df tree command to display the CRUSH tree in the command output.

```
[ceph: root@node /]# ceph osd df
ID CLASS WEIGHT REWEIGHT SIZE RAW USE DATA
                                             OMAP
                                                    META
                                                             AVAIL
                                                                    %USE
VAR PGS STATUS
0 hdd 0.00980 1.00000 10 GiB 1.0 GiB 28 MiB 20 KiB 1024 MiB 9.0 GiB 10.28
1.00 41 up
1 hdd 0.00980 1.00000 10 GiB 1.0 GiB 29 MiB 40 KiB 1024 MiB 9.0 GiB 10.29
1.00 58 up
2 hdd 0.00980 1.00000 10 GiB 1.0 GiB 28 MiB 20 KiB 1024 MiB 9.0 GiB 10.28
1.00 30 up
3 hdd 0.00980 1.00000 10 GiB 1.0 GiB 28 MiB 20 KiB 1024 MiB 9.0 GiB 10.28
1.00 43 up
4 hdd 0.00980 1.00000 10 GiB 1.0 GiB 28 MiB 20 KiB 1024 MiB 9.0 GiB 10.28
1.00 46
5 hdd 0.00980 1.00000 10 GiB 1.0 GiB 28 MiB 20 KiB 1024 MiB 9.0 GiB 10.28
1.00 40
6 hdd 0.00980 1.00000 10 GiB 1.0 GiB 29 MiB 44 KiB 1024 MiB 9.0 GiB 10.28
1.00 44
```