

The time skew message might still display if the monitoring service has not yet updated the time. Allow the cluster sufficient time for services to obtain the corrected time. Continue with these exercise steps, but verify that the skew issue is resolved before finishing the exercise.

```
[ceph: root@clienta /]# ceph health detail
HEALTH_WARN Degraded data redundancy: 40/567 objects degraded (7.055%), 8 pgs
degraded, 20 pgs undersized; 1099 slow ops, oldest one blocked for 580 sec,
mon.serverd has slow ops
[WRN] PG_DEGRADED: Degraded data redundancy: 40/567 objects degraded (7.055%), 8
pgs degraded, 20 pgs undersized
    pg 2.0 is stuck undersized for 8m, current state active+undersized, last
    acting [3,6]
    pg 2.8 is stuck undersized for 8m, current state active+undersized, last
    acting [3,8]
...output omitted...
```



Note

The health detail output might show the cluster state as HEALTH_OK. When an OSD is down, the cluster migrates its PGs to other OSDs to return the cluster to a healthy state. However, the down OSD still requires troubleshooting.

► 3. Locate the down OSD.

The `osd.0` service on the `serverc` system is reported as down.

```
[ceph: root@clienta /]# ceph osd tree
ID CLASS WEIGHT TYPE NAME STATUS REWEIGHT PRI-AFF
-1      0.08817 root default
-3      0.02939 host serverc
 0 hdd 0.00980 osd.0 down 0 1.00000
 1 hdd 0.00980 osd.1 up 1.00000 1.00000
 2 hdd 0.00980 osd.2 up 1.00000 1.00000
-5      0.02939 host serverd
 3 hdd 0.00980 osd.3 up 1.00000 1.00000
 5 hdd 0.00980 osd.5 up 1.00000 1.00000
 7 hdd 0.00980 osd.7 up 1.00000 1.00000
-7      0.02939 host servere
 4 hdd 0.00980 osd.4 up 1.00000 1.00000
 6 hdd 0.00980 osd.6 up 1.00000 1.00000
 8 hdd 0.00980 osd.8 up 1.00000 1.00000
```

3.1. Exit the `cephadm` shell. On the `serverc` system, list the Ceph service units.

```
[ceph: root@clienta /]# exit
exit
[admin@clienta ~]$ ssh admin@serverc
admin@serverc's password: redhat
[admin@serverc ~]$ systemctl list-units --all 'ceph*'
UNIT
LOAD ACTIVE SUB DESCRIPTION
...output omitted...
```