

# CEPH

## Useful commands

```
# quick status check
ceph status

# summary of storage pools, raw usage, and estimated capacity
ceph df

# utilization per osd
ceph osd df
```

## Adding CEPH Manager Dashboard

[Source](#)

```
# run this on all service manager nodes
apt install ceph-mgr-dashboard

# run this to configure ceph mgr

echo "admin-password" > ~/ceph-dashboard-admin-password.txt

ceph mgr module enable dashboard
ceph dashboard ac-user-create cephdash administrator -i ~/ceph-dashboard-admin-password.txt
ceph config-key set mgr/dashboard/server_addr ::
ceph dashboard create-self-signed-cert
```

```
ceph mgr module disable dashboard
ceph mgr module enable dashboard

systemctl restart ceph-mgr@[servername].service

# Then https://[IP or FQDN]:8443 or http://[IP or FQDN]:8080
```

## Shutting down entire Proxmox cluster

If you need to shutdown your entire Proxmox cluster for any reason (maintenance, power issues, moving to a new site, whatever):

```
# prep for shutdown
ceph osd set noout
ceph osd set nobackfill
ceph osd set norecover

# shutdown all VMs and containers
```

```
# prep for service resumption
ceph osd unset norecover
ceph osd unset nobackfill
ceph osd unset noout

# start desired VMs and containers
```

## Upgrading Proxmox running CEPH

This has not yet been tested and verified, but adding it here for future reference.

[Source](#)

```
# Node maintenance

# stop and wait for scrub and deep-scrub operations

ceph osd set noscrub
ceph osd set nodeep-scrub

ceph status

# set cluster in maintenance mode with :

ceph osd set noout

# for node 1..N

# migrate VMs and CTs off node

# (GUI or CLI)

# run updates

apt update && pveupgrade

reboot # if required, e.g., kernel update

# wait for node to come back on line and quorate

# next N

# restore

ceph osd unset noout

# when all the PGs are active, re-enable the scrub and deep-scrub operations

ceph status

ceph osd unset noscrub
ceph osd unset nodeep-scrub
```

# done

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