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# Ceph OSD node

- Ceph 3 (Luminous v12.x)

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```
[root@monitor ~]# ceph df
[root@monitor ~]# rados df
[root@monitor ~]# ceph osd df
```

(I/O )

```
[root@monitor ~]# ceph osd set noscrub
[root@monitor ~]# ceph osd set nodeep-scrub
```

( OSD )

```
[root@monitor ~]# ceph daemon osd.0 config show

"osd_max_backfills": "1"
"osd_recovery_max_active": "3"
"osd_recovery_op_priority": "3"

[root@monitor ~]# ceph tell osd.* injectargs --osd-max-backfills 1 --osd-
recovery-max-active 1 --osd-recovery-op-priority 1
```

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[https://access.redhat.com/documentation/en-us/red\\_hat\\_ceph\\_storage/3/html-single/configuration\\_guide/index#setting\\_a\\_specific\\_configuration\\_setting\\_at\\_runtime](https://access.redhat.com/documentation/en-us/red_hat_ceph_storage/3/html-single/configuration_guide/index#setting_a_specific_configuration_setting_at_runtime)

## OSD

OSD          OSD                                  가 active+clean                                  OSD

### Ansible

OSD                                  ansible                                  shrink-osd.yml                  shrink-osd-ceph-  
disk.yml                                  .                                  osd\_scenario 가 collocated                  non-collocated                  ,  
shrink-osd-ceph-disk.yml                  . osd\_scenario 가 lvm                  , shrink-osd.yml  
                                . admin keyring

#### 1) ceph-ansible

```
[user@admin ~]$ cd /usr/share/ceph-ansible
```

#### 2)                                  yaml

```
[root@admin ceph-ansible]# cp infrastructure-playbooks/shrink-osd.yml .  
[root@admin ceph-ansible]# cp infrastructure-playbooks/shrink-osd-ceph-  
disk.yml .
```

#### 3)

```
ansible-playbook shrink-osd.yml -e osd_to_kill=$ID -u $ANSIBLE_USER  
ansible-playbook shrink-osd-ceph-disk.yml -e osd_to_kill=$ID -u  
$ANSIBLE_USER
```

- \$ID :          OSD          .
- \$ANSIBLE\_USER : ansible

```
[user@admin ceph-ansible]$ ansible-playbook shrink-osd.yml -e osd_to_kill=1  
-u user
```

```
[user@admin ceph-ansible]$ ansible-playbook shrink-osd-ceph-disk.yml -e  
osd_to_kill=1 -u user
```

#### 4) OSD

```
[root@mon ~]# ceph osd tree
```

## CLI

root . near  
full 가

### 1) OSD

```
[root@osd ~]# ceph osd out 4
```

OSD가 active+clean OSD .

### 2) OSD

```
[root@osd ~]# systemctl disable ceph-osd@4  
[root@osd ~]# systemctl stop ceph-osd@4
```

### 3) CRUSH map OSD

```
[root@osd ~]# ceph osd crush remove osd.4
```

### 4)

```
[root@osd ~]# ceph auth del osd.4
```

### 5) OSD

```
[root@osd ~]# ceph osd rm 4
```

### 6) /etc/ceph.conf OSD

```
[osd.4]  
host = $HOST_NAME
```

### 7) /etc/fstab OSD

### 8) /etc/ceph

```
[root@osd ~]# scp /etc/ceph/ceph.conf root@node4:/etc/ceph/
```

## OSD가

```
[root@monitor ~]# ceph osd crush rm < >
```

## 가

```
[root@monitor ~]# ceph daemon osd.0 config show
[root@monitor ~]# ceph tell osd.* injectargs --osd-max-backfills 1 --osd-recovery-max-active 3 --osd-recovery-op-priority 3

[root@monitor ~]# ceph osd unset noscrub
[root@monitor ~]# ceph osd unset nodeep-scrub
```

- [https://access.redhat.com/documentation/en-us/red\\_hat\\_ceph\\_storage/3/html/operations\\_guide/handling-a-node-failure#removing-a-ceph-osd-node-ops](https://access.redhat.com/documentation/en-us/red_hat_ceph_storage/3/html/operations_guide/handling-a-node-failure#removing-a-ceph-osd-node-ops)

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