

Ceph

Crush Rule

```
ceph osd crush rule create-replicated rule-nvme default host nvme
ceph osd crush rule create-replicated rule-hdd default host hdd
ceph osd crush rule rm replicated_rule
```

HDD Pool SSD

```
ceph osd tier add Ceph_Pool Cache
ceph osd tier cache-mode Cache writeback
ceph osd tier set-overlay Ceph_Pool Cache
ceph osd pool set Cache hit_set_type bloom
#ceph osd pool set Cache hit_set_count 12
#ceph osd pool set Cache hit_set_period 14400

ceph osd pool set Cache target_max_bytes xxxxxx
ceph osd pool set Cache target_max_objects xxxxxx
ceph osd pool set Cache min_read_recency_for_promote 2
ceph osd pool set Cache min_write_recency_for_promote 2

ceph osd pool set Cache cache_target_dirty_ratio 0.4
ceph osd pool set Cache cache_target_dirty_high_ratio 0.6
ceph osd pool set Cache cache_target_full_ratio 0.8
ceph osd pool set Cache cache_min_flush_age 600
ceph osd pool set Cache cache_min_evict_age 1800
```

#remove Cache Pool

```
ceph osd tier cache-mode Cache readproxy
rados -p Cache ls
rados -p Cache cache-flush-evict-all
ceph osd tier remove-overlay Ceph_Pool
ceph osd tier remove Ceph_Pool Cache
ceph delete Cache Cache --yes-i-really-really-mean-it
```

[] [] [] [] Ceph LVM [] Disk Lable

```
ceph-volume lvm zap /dev/sdX --destroy
```

[] [] Ceph [] []

```
ceph -s
```

```
ceph osd pool stats
```

[] [] ceph cluster [] []

```
ceph osd set noout
```

```
ceph osd set nobackfill
```

```
ceph osd set norecover
```

ceph cluster [] [] [] []

```
ceph osd unset noout
```

```
ceph osd unset nobackfill
```

```
ceph osd unset norecover
```

Revision #2

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