

CEPH performance monitoring

basic info

ceph

```
ceph -S  
ceph -W  
ceph df  
ceph osd tree  
ceph osd df tree
```

rados

```
rados df
```

Where:

- **USED COMPR:** amount of space allocated for compressed data (i.e. this includes compressed data plus all the allocation, replication and erasure coding overhead).
- **UNDER COMPR:** amount of data passed through compression (summed over all replicas) and beneficial enough to be stored in a compressed form.

RBD Rados Block Device

```
rbd ls  
rbd du
```

perf

```
ceph iostat  
  
ceph osd perf  
  
rbd perf image iostat # and wait 30 sec  
rbd perf image iotop  # and wait 30 sec  
  
rbd du
```

<https://ceph.io/community/new-mimic-iostat-plugin/>

rados benchmark

Hints from https://yourcmc.ru/wiki/Ceph_performance#Test_your_Ceph_cluster:

- Don't use `rados bench`. It creates a small number of objects (1-2 for a thread) so all of them always reside in cache and improve the results far beyond they should be.
- You can use `rbd bench`, but fio is better.

```
ceph osd pool create test
rados -p test bench 10 write --no-cleanup
rados -p test bench 10 seq
rados -p test bench -t 4 10 seq
rados -p test bench 10 rand

rados bench -p test 60 write -b 4M -t 16 --no-cleanup
rados bench -p test 60 seq -t 16
rados bench -p test 60 rand -t 16

rados -p test cleanup
```

rbd benchmark

Chapter 9. Benchmarking Performance

```
# Image 1G:
rbd create test/myimage --size 1024

#TBD ...
#rbd device map test/myimage --cluster
#rbd device unmap /dev/rbdX

rbd rm test/myimage
```

From:

<https://niziak.spox.org/wiki/> - **niziak.spox.org**

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