

# INDEX

**Symbols** | **A** | **B** | **C** | **D** | **E** | **F** | **G** | **I** | **K** | **L** | **M** | **N** | **O** | **P** | **R** | **S** | **T** | **U** | **V** | **W**

## SYMBOLS

--add name ip:port  
    monmaptool command line option

--add-key  
    ceph-authtool command line option

--auth-uid=auid  
    radosgw-admin command line option

--bucket=bucket  
    radosgw-admin command line option

--build --num\_osds {num-osds} layer1 ...  
    crushtool command line option

--cap subsystem capability  
    ceph-authtool command line option

--caps capsfile  
    ceph-authtool command line option

--clobber  
    crushtool command line option  
    monmaptool command line option  
    osdmaptool command line option

--create  
    monmaptool command line option

--createsimple numosd [--pgbits bitsperosd]  
    osdmaptool command line option

--date=yyyy-mm-dd  
    radosgw-admin command line option

--display-name=name  
    radosgw-admin command line option

--email=email  
    radosgw-admin command line option

--end-date=yyyy-mm-dd  
    radosgw-admin command line option

--export-crush mapfile  
    osdmaptool command line option

--filter-initial-members  
    monmaptool command line option

--flush-journal  
    ceph-osd command line option

--format format  
    rbd command line option

--fsid uuid  
    monmaptool command line option

--gen-key  
    ceph-authtool command line option

--generate  
    monmaptool command line option

--get-cluster-fsid  
    ceph-osd command line option

--get-journal-fsid  
    ceph-osd command line option

--get-osd-fsid  
    ceph-osd command line option

--id username  
    rbd command line option

--image-format format  
    rbd command line option

--import-crush mapfile  
    osdmaptool command line option

--init-local-daemons type -d dir  
    mkcephfs command line option

--shared tag  
    rbd command line option

--size size-in-mb  
    rbd command line option

--snap snap  
    rbd command line option

--start-date=yyyy-mm-dd  
    radosgw-admin command line option

--stripe-count num  
    rbd command line option

--stripe-unit size-in-bytes  
    rbd command line option

--syn workloadspect  
    ceph-syn command line option

--test ...  
    crushtool command line option

--uid=uid  
    radosgw-admin command line option

--vernum  
    librados-config command line option

--version  
    librados-config command line option

-a, --allhosts  
    mkcephfs command line option

-a, --arch  
    ceph-clsinfo command line option

-c --stripe\_count  
    cephfs command line option

-c ceph.conf  
    rbd-fuse command line option

-c ceph.conf, --conf ceph.conf  
    rbd command line option

-c ceph.conf, --conf=ceph.conf  
    ceph command line option  
    ceph-debugpack command line option  
    ceph-fuse command line option  
    ceph-mds command line option  
    ceph-mon command line option  
    ceph-osd command line option  
    ceph-syn command line option  
    mkcephfs command line option  
    rados command line option  
    radosgw command line option  
    radosgw-admin command line option

-c map.txt  
    crushtool command line option

-C, --create-keyring  
    ceph-authtool command line option

-d  
    ceph-fuse command line option  
    ceph-mds command line option  
    ceph-mon command line option  
    ceph-osd command line option  
    ceph-syn command line option

-d map  
    crushtool command line option

-f, --foreground

--keyfile filename  
     rbd command line option  
 --keyring  
     ceph-mon command line option  
 --keyring filename  
     rbd command line option  
 --lazy-remove  
     radosgw-admin command line option  
 --mkfs  
     ceph-mon command line option  
     ceph-osd command line option  
     mkcephfs command line option  
 --mkjournal  
     ceph-osd command line option  
 --mkkey  
     ceph-osd command line option  
 --no-copy-conf  
     mkcephfs command line option  
 --no-progress  
     rbd command line option  
 --num\_client num  
     ceph-syn command line option  
 --object=object  
     radosgw-admin command line option  
 --order bits  
     rbd command line option  
 --osd-data osddata  
     ceph-osd command line option  
 --osd-journal journal  
     ceph-osd command line option  
 --prepare-mon -d dir  
     mkcephfs command line option  
 --prepare-monmap -d dir -c ceph.conf  
     mkcephfs command line option  
 --pretty-format  
     rbd command line option  
 --print  
     monmaptool command line option  
     osdmaptool command line option  
 --purge-data  
     radosgw-admin command line option  
 --purge-objects  
     radosgw-admin command line option  
 --rgw-socket-path=path  
     radosgw command line option  
 --rm name  
     monmaptool command line option  
 --secret=secret  
     radosgw-admin command line option

ceph-mds command line option  
 ceph-mon command line option  
 ceph-osd command line option  
 -i infile  
     ceph command line option  
     rados command line option  
 -k /path/to/keyring  
     mkcephfs command line option  
 -l --offset  
     cephfs command line option  
 -l, --list  
     ceph-authtool command line option  
 -m monaddress[:port]  
     ceph command line option  
     ceph-fuse command line option  
     ceph-mds command line option  
     ceph-osd command line option  
     ceph-syn command line option  
     rados command line option  
     radosgw command line option  
     radosgw-admin command line option  
     rbd command line option  
 -n, --name  
     ceph-clsinfo command line option  
 -o --osd  
     cephfs command line option  
 -o outfile  
     ceph command line option  
     crushtool command line option  
     rados command line option  
 -p --pool  
     cephfs command line option  
 -p pool  
     rbd-fuse command line option  
 -p pool, --pool pool  
     rados command line option  
     rbd command line option  
 -p, --print  
     ceph-authtool command line option  
 -r root\_directory  
     ceph-fuse command line option  
 -s --object\_size  
     cephfs command line option  
 -s snap, --snap snap  
     rados command line option  
 -u --stripe\_unit  
     cephfs command line option  
 -v, --version  
     ceph-clsinfo command line option

## A

After we write [\*stripe\_unit\*] bytes to [\*stripe\_count\*] objects, we loop back to the initial object  
     rbd command line option

and write another stripe, until the object reaches its maximum size (as specified by [\*order\*]). At that  
     rbd command line option

## B

break\_lock() (rbd.Image method)

## C

ceph command line option

ceph-osd command line option

<ul style="list-style-type: none"> <li>-c ceph.conf, --conf=ceph.conf</li> <li>-i infile</li> <li>-m monaddress[:port]</li> <li>-o outfile</li> </ul> <p>ceph-authtool command line option</p> <ul style="list-style-type: none"> <li>--add-key</li> <li>--cap subsystem capability</li> <li>--caps capsfile</li> <li>--gen-key</li> <li>-C, --create-keyring</li> <li>-l, --list</li> <li>-p, --print</li> </ul> <p>ceph-clsinfo command line option</p> <ul style="list-style-type: none"> <li>-a, --arch</li> <li>-n, --name</li> <li>-v, --version</li> </ul> <p>ceph-debugpack command line option</p> <ul style="list-style-type: none"> <li>-c ceph.conf, --conf=ceph.conf</li> </ul> <p>ceph-dencoder command line option</p> <ul style="list-style-type: none"> <li>count_tests</li> <li>decode</li> <li>dump_json</li> <li>encode</li> <li>export &lt;file&gt;</li> <li>get_features</li> <li>import &lt;file&gt;</li> <li>list_types</li> <li>select_test &lt;n&gt;</li> <li>set_features &lt;f&gt;</li> <li>type &lt;name&gt;</li> <li>version</li> </ul> <p>ceph-fuse command line option</p> <ul style="list-style-type: none"> <li>-c ceph.conf, --conf=ceph.conf</li> <li>-d</li> <li>-m monaddress[:port]</li> <li>-r root_directory</li> </ul> <p>ceph-mds command line option</p> <ul style="list-style-type: none"> <li>-c ceph.conf, --conf=ceph.conf</li> <li>-d</li> <li>-f, --foreground</li> <li>-m monaddress[:port]</li> </ul> <p>ceph-mon command line option</p> <ul style="list-style-type: none"> <li>--keyring</li> <li>--mkfs</li> <li>-c ceph.conf, --conf=ceph.conf</li> <li>-d</li> <li>-f, --foreground</li> </ul>	<ul style="list-style-type: none"> <li>--flush-journal</li> <li>--get-cluster-fsid</li> <li>--get-journal-fsid</li> <li>--get-osd-fsid</li> <li>--mkfs</li> <li>--mkjournal</li> <li>--mkkey</li> <li>--osd-data osddata</li> <li>--osd-journal journal</li> <li>-c ceph.conf, --conf=ceph.conf</li> <li>-d</li> <li>-f, --foreground</li> <li>-m monaddress[:port]</li> </ul> <p>ceph-syn command line option</p> <ul style="list-style-type: none"> <li>--num_client num</li> <li>--syn workloadspect</li> <li>-c ceph.conf, --conf=ceph.conf</li> <li>-d</li> <li>-m monaddress[:port]</li> </ul> <p>CEPH_OSD_TMAP_CREATE (C macro)</p> <p>CEPH_OSD_TMAP_HDR (C macro)</p> <p>CEPH_OSD_TMAP_RM (C macro)</p> <p>CEPH_OSD_TMAP_SET (C macro)</p> <p>cephfs command line option</p> <ul style="list-style-type: none"> <li>-c --stripe_count</li> <li>-l --offset</li> <li>-o --osd</li> <li>-p --pool</li> <li>-s --object_size</li> <li>-u --stripe_unit</li> </ul> <p>clone() (rbd.RBD method)</p> <p>close() (rbd.Image method)</p> <p>commands</p> <p>control</p> <p>copy() (rbd.Image method)</p> <p>count_tests</p> <p>ceph-dencoder command line option</p> <p>create() (rbd.RBD method)</p> <p>create_snap() (rbd.Image method)</p> <p>crushtool command line option</p> <ul style="list-style-type: none"> <li>--build --num_osds {num-osds} layer1 ...</li> <li>--clobber</li> <li>--test ...</li> <li>-c map.txt</li> <li>-d map</li> <li>-o outfile</li> </ul> <p>names, see crushtool --help for more information.</p> <p>will perform a dry run of a CRUSH mapping for a range of input object</p>
---	--

## D

<p>decode</p> <p>ceph-dencoder command line option</p> <p>diff_iterate() (rbd.Image method)</p>	<p>discard() (rbd.Image method)</p> <p>dump_json</p> <p>ceph-dencoder command line option</p>
---	---

## E

<p>Each [<i>*stripe_unit*</i>] contiguous bytes are stored adjacently in the same object, before we move on</p> <p>rbd command line option</p> <p>encode</p> <p>ceph-dencoder command line option</p>	<p>export &lt;file&gt;</p> <p>ceph-dencoder command line option</p>
---	---

## F

`flatten()` (rbd.Image method)

`flush()` (rbd.Image method)

## G

`get_features`

ceph-dencoder command line option

## I

`Image` (class in rbd)

`import <file>`

ceph-dencoder command line option

is 22, or 4 MB.

rbd command line option

`is_protected_snap()` (rbd.Image method)

## K

`kb` (C member)

`kb_avail` (C member)

`kb_used` (C member)

## L

librados-config command line option

`--vernum`

`--version`

`LIBRADOS_SNAP_DIR` (C macro)

`LIBRADOS_SNAP_HEAD` (C macro)

`LIBRADOS_SUPPORTS_WATCH` (C macro)

`LIBRADOS_VER_EXTRA` (C macro)

`LIBRADOS_VER_MAJOR` (C macro)

`LIBRADOS_VER_MINOR` (C macro)

`LIBRADOS_VERSION` (C macro)

`LIBRADOS_VERSION_CODE` (C macro)

`list()` (rbd.RBD method)

`list_children()` (rbd.Image method)

`list_lockers()` (rbd.Image method)

`list_snaps()` (rbd.Image method)

`list_types`

ceph-dencoder command line option

`lock_exclusive()` (rbd.Image method)

`lock_shared()` (rbd.Image method)

## M

mkcephfs command line option

`--init-local-daemons type -d dir`

`--mkfs`

`--no-copy-conf`

`--prepare-mon -d dir`

`--prepare-monmap -d dir -c ceph.conf`

`-a, --allhosts`

`-c ceph.conf, --conf=ceph.conf`

`-k /path/to/keyring`

monmaptool command line option

`--add name ip:port`

`--clobber`

`--create`

`--filter-initial-members`

`--fsid uuid`

`--generate`

`--print`

`--rm name`

## N

names, see `crushtool --help` for more information.

crushtool command line option

`num_bytes` (C member)

`num_kb` (C member)

`num_object_clones` (C member)

`num_object_copies` (C member)

`num_objects` (C member), [1]

`num_objects_degraded` (C member)

`num_objects_missing_on_primary` (C member)

`num_objects_unfound` (C member)

`num_rd` (C member)

`num_rd_kb` (C member)

`num_wr` (C member)

`num_wr_kb` (C member)

## O

order

rbd command line option  
osdmptool command line option  
    --clobber  
    --createsimple numosd [--pgbits bitsperosd]  
    --export-crush mapfile  
    --import-crush mapfile  
    --print

## P

point, we move on to the next [\*stripe\_count\*] objects.  
    rbd command line option

protect\_snap() (rbd.Image method)  
Python Enhancement Proposals  
    PEP 343

## R

### Rados Block Device

#### rados command line option

    -c ceph.conf, --conf=ceph.conf  
    -i infile  
    -m monaddress[:port]  
    -o outfile  
    -p pool, --pool pool  
    -s snap, --snap snap  
rados\_aio\_append (C function)  
rados\_aio\_create\_completion (C function)  
rados\_aio\_flush (C function)  
rados\_aio\_flush\_async (C function)  
rados\_aio\_get\_return\_value (C function)  
rados\_aio\_is\_complete (C function)  
rados\_aio\_is\_complete\_and\_cb (C function)  
rados\_aio\_is\_safe (C function)  
rados\_aio\_is\_safe\_and\_cb (C function)  
rados\_aio\_read (C function)  
rados\_aio\_release (C function)  
rados\_aio\_remove (C function)  
rados\_aio\_stat (C function)  
rados\_aio\_wait\_for\_complete (C function)  
rados\_aio\_wait\_for\_complete\_and\_cb (C function)  
rados\_aio\_wait\_for\_safe (C function)  
rados\_aio\_wait\_for\_safe\_and\_cb (C function)  
rados\_aio\_write (C function)  
rados\_aio\_write\_full (C function)  
rados\_append (C function)  
rados\_callback\_t (C type)  
rados\_cct (C function)  
rados\_clone\_range (C function)  
rados\_cluster\_fsid (C function)  
rados\_cluster\_stat (C function)  
rados\_cluster\_stat\_t (C type)  
rados\_completion\_t (C type)  
rados\_conf\_get (C function)  
rados\_conf\_parse\_argv (C function)  
rados\_conf\_parse\_env (C function)  
rados\_conf\_read\_file (C function)  
rados\_conf\_set (C function)  
rados\_config\_t (C type)  
rados\_connect (C function)  
rados\_create (C function)  
rados\_create\_with\_context (C function)  
rados\_exec (C function)  
rados\_get\_instance\_id (C function)  
rados\_get\_last\_version (C function)  
rados\_getxattr (C function)  
rados\_getxattrs (C function)  
rados\_getxattrs\_end (C function)  
rados\_getxattrs\_next (C function)

rados\_pool\_list (C function)  
rados\_pool\_lookup (C function)  
rados\_pool\_reverse\_lookup (C function)  
rados\_pool\_stat\_t (C type)  
rados\_read (C function)  
rados\_remove (C function)  
rados\_rmxattr (C function)  
rados\_rollback (C function)  
rados\_setxattr (C function)  
rados\_shutdown (C function)  
rados\_snap\_t (C type)  
rados\_stat (C function)  
rados\_t (C type)  
rados\_tmap\_get (C function)  
rados\_tmap\_put (C function)  
rados\_tmap\_update (C function)  
rados\_trunc (C function)  
rados\_unwatch (C function)  
rados\_version (C function)  
rados\_watch (C function)  
rados\_watchcb\_t (C type)  
rados\_write (C function)  
rados\_write\_full (C function)  
rados\_xattrs\_iter\_t (C type)

#### radosgw command line option

    --rgw-socket-path=path  
    -c ceph.conf, --conf=ceph.conf  
    -m monaddress[:port]

#### radosgw-admin command line option

    --auth-uid=audit  
    --bucket=bucket  
    --date=yyyy-mm-dd  
    --display-name=name  
    --email=email  
    --end-date=yyyy-mm-dd  
    --lazy-remove  
    --object=object  
    --purge-data  
    --purge-objects  
    --secret=secret  
    --start-date=yyyy-mm-dd  
    --uid=uid  
    -c ceph.conf, --conf=ceph.conf  
    -m monaddress[:port]

### RBD

    (class in rbd)

rbd (module)

#### rbd command line option

    --format format

rados\_ioctx\_cct (C function)  
 rados\_ioctx\_create (C function)  
 rados\_ioctx\_destroy (C function)  
 rados\_ioctx\_get\_cluster (C function)  
 rados\_ioctx\_get\_id (C function)  
 rados\_ioctx\_get\_pool\_name (C function)  
 rados\_ioctx\_locator\_set\_key (C function)  
 rados\_ioctx\_pool\_get\_auid (C function)  
 rados\_ioctx\_pool\_set\_auid (C function)  
 rados\_ioctx\_pool\_stat (C function)  
 rados\_ioctx\_selfmanaged\_snap\_create (C function)  
 rados\_ioctx\_selfmanaged\_snap\_remove (C function)  
 rados\_ioctx\_selfmanaged\_snap\_rollback (C function)  
 rados\_ioctx\_selfmanaged\_snap\_set\_write\_ctx (C function)  
 rados\_ioctx\_snap\_create (C function)  
 rados\_ioctx\_snap\_get\_name (C function)  
 rados\_ioctx\_snap\_get\_stamp (C function)  
 rados\_ioctx\_snap\_list (C function)  
 rados\_ioctx\_snap\_lookup (C function)  
 rados\_ioctx\_snap\_remove (C function)  
 rados\_ioctx\_snap\_set\_read (C function)  
 rados\_ioctx\_t (C type)  
 rados\_list\_ctx\_t (C type)  
 rados\_notify (C function)  
 rados\_objects\_list\_close (C function)  
 rados\_objects\_list\_next (C function)  
 rados\_objects\_list\_open (C function)  
 rados\_pool\_create (C function)  
 rados\_pool\_create\_with\_all (C function)  
 rados\_pool\_create\_with\_auid (C function)  
 rados\_pool\_create\_with\_crush\_rule (C function)  
 rados\_pool\_delete (C function)

--id username  
 --image-format format  
 --keyfile filename  
 --keyring filename  
 --no-progress  
 --order bits  
 --pretty-format  
 --shared tag  
 --size size-in-mb  
 --snap snap  
 --stripe-count num  
 --stripe-unit size-in-bytes  
 -c ceph.conf, --conf ceph.conf  
 -m monaddress[:port]  
 -p pool, --pool pool  
 After we write [\*stripe\_unit\*] bytes to [\*stripe\_count\*]  
 objects, we loop back to the initial object  
 Each [\*stripe\_unit\*] contiguous bytes are stored  
 adjacently in the same object, before we move on  
 The size of objects we stripe over is a power of two,  
 specifiially 2<sup>order</sup> bytes. The default  
 and write another stripe, until the object reaches its  
 maximum size (as specified by [\*order\*]). At that  
 is 22, or 4 MB.  
 order  
 point, we move on to the next [\*stripe\_count\*] objects.  
 stripe\_count  
 stripe\_unit  
 to the next object.

rbd-fuse command line option

-c ceph.conf  
 -p pool

read() (rbd.Image method)

remove() (rbd.RBD method)

remove\_snap() (rbd.Image method)

rename() (rbd.RBD method)

resize() (rbd.Image method)

rollback\_to\_snap() (rbd.Image method)

## S

select\_test <n>

ceph-dencoder command line option

set\_features <f>

ceph-dencoder command line option

set\_snap() (rbd.Image method)

size() (rbd.Image method)

SnapIterator (class in rbd)

stat() (rbd.Image method)

stripe\_count

rbid command line option

stripe\_count() (rbd.Image method)

stripe\_unit

rbid command line option

stripe\_unit() (rbd.Image method)

## T

The size of objects we stripe over is a power of two, specifiially type <name>

2<sup>order</sup> bytes. The default

rbid command line option

to the next object.

rbid command line option

ceph-dencoder command line option

## U

unlock() (rbd.Image method)

unprotect\_snap() (rbd.Image method)

## V

version

[ceph-dencoder command line option](#)

[version\(\) \(rbd.RBD method\)](#)

## W

will perform a dry run of a CRUSH mapping for a range of input [write\(\) \(rbd.Image method\)](#)  
object

[crushtool command line option](#)