Symbols | A | B | C | D | E | F | G | H | I | J | 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

--cluster clustername

ceph-rest-api 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

radosqw-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

--syn workloadspec

ceph-syn command line option

--test ...

crushtool command line option

--uid=uid

radosgw-admin command line option

--valgrind[_{osd,mds,mon}] 'valgrind_toolname [args...]'
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

-c/--conf conffile

ceph-rest-api 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 *description*, --description *description* ceph-post-file command line option

-d map

crushtool command line option

-d, --debug

command line option

-f, --foreground

ceph-mds command line option ceph-mon command line option ceph-osd command line option

-i infile

--init-local-daemons type -d dir ceph command line option mkcephfs command line option rados command line option --keyfile filename -i ip address rbd command line option command line option --keyring -i/--id id ceph-mon command line option ceph-rest-api command line option --keyring filename rbd command line option command line option --lazy-remove -k /path/to/keyring radosgw-admin command line option mkcephfs command line option --mkfs -I --offset ceph-mon command line option cephfs command line option ceph-osd command line option mkcephfs command line option ceph-authtool command line option --mkjournal -l, --localhost ceph-osd command line option command line option --mkkey -m ip[:port] ceph-osd command line option command line option --no-copy-conf -m monaddress[:port] mkcephfs command line option ceph command line option --no-progress ceph-fuse command line option rbd command line option ceph-mds command line option --nodaemon ceph-osd command line option command line option ceph-syn command line option --num_client num rados command line option ceph-syn command line option radosgw command line option --object=object radosgw-admin command line option radosgw-admin command line option rbd command line option --order bits -n, --name rbd command line option ceph-clsinfo command line option --osd-data osddata -n. --new ceph-osd command line option command line option --osd-journal journal -n/--name name ceph-osd command line option ceph-rest-api command line option --prepare-mon -d dir mkcephfs command line option cephfs command line option --prepare-monmap -d dir -c ceph.conf -o config mkcephfs command line option command line option --pretty-format -o outfile rbd command line option ceph command line option --print crushtool command line option monmaptool command line option rados command line option osdmaptool command line option -p --pool --purge-data cephfs command line option radosgw-admin command line option -p pool --purge-objects rbd-fuse command line option radosgw-admin command line option -p pool, --pool pool --rgw-socket-path=path rados command line option radosgw command line option rbd command line option --rm name -p, --print monmaptool command line option ceph-authtool command line option --secret=secret radosgw-admin command line option command line option --shared tag -r root directory rbd command line option ceph-fuse command line option --size size-in-mb -s --object_size rbd command line option cephfs command line option --smallmds -s snap, --snap snap command line option rados command line option --snap snap -u *user* rbd command line option ceph-post-file command line option --start-date=yyyy-mm-dd -u --stripe unit radosgw-admin command line option cephfs command line option --stripe-count num -v, --version rbd command line option ceph-clsinfo command line option --stripe-unit size-in-bytes -X rbd command line option command line option

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 architecture Ceph Clients Ceph Object Storage **Data Scrubbing PG** Peering Rebalancing Striping calculating PG IDs cluster map high availability high availability authentication smart daemons and scalability watch/notify

В

break_lock() (rbd.Image method)

C

Paxos

```
ceph-mds command line option
Ceph
Ceph Block Device
                                                                 -c ceph.conf, --conf=ceph.conf
    OpenStack
                                                                 -d
    QEMU KVM
                                                                 -f, --foreground
    block device; RBD; Rados Block Device
                                                                 -m monaddress[:port]
    cache options
                                                             ceph-mon command line option
    discard trim and libvirt
                                                                 --keyring
   image management
                                                                 --mkfs
   introduction
                                                                 -c ceph.conf, --conf=ceph.conf
    kernel module
                                                                 -d
   livirt
                                                                 -f, --foreground
                                                             ceph-osd command line option
   snapshot layering
                                                                 --flush-journal
    snapshots
                                                                 --get-cluster-fsid
Ceph Block Storage
Ceph Classes
                                                                 --get-journal-fsid
Ceph Client
                                                                 --get-osd-fsid
Ceph Client Libraries
                                                                 --mkfs
Ceph Clients
                                                                 --mkjournal
Ceph Cluster Map
                                                                 --mkkey
ceph command line option
                                                                 --osd-data osddata
    -c ceph.conf, --conf=ceph.conf
                                                                 --osd-journal journal
   -i infile
                                                                 -c ceph.conf, --conf=ceph.conf
    -m monaddress[:port]
    -o outfile
                                                                 -f, --foreground
Ceph Filesystem
                                                                 -m monaddress[:port]
Ceph FS
                                                             ceph-post-file command line option
    Ceph Filesystem; libcephfs; MDS; metadata server; ceph-
                                                                 -d *description*, --description *description*
    mds
                                                                 -u *user*
Ceph Interim Release
                                                             ceph-rest-api command line option
Ceph Kernel Modules
                                                                 --cluster clustername
Ceph Metadata Server
                                                                 -c/--conf conffile
Ceph Monitor
                                                                 -i/--id id
```

bootstrapping monitors	-n/name name
capacity planning	ceph-syn command line option
clock	num_client num
cluster map	syn workloadspec
configuring monitors	-c ceph.conf,conf=ceph.conf
consistency	-d
data path	-m monaddress[:port]
initial members	CEPH_OSD_TMAP_CREATE (C macro)
leader	CEPH_OSD_TMAP_HDR (C macro)
provider	CEPH_OSD_TMAP_RM (C macro)
requester	CEPH_OSD_TMAP_SET (C macro)
synchronization	CephFS
Ceph Node	cephfs command line option
Ceph Object Gateway	-cstripe_count -loffset
Ceph Object Storage	
Ceph Object Store	-0osd
Ceph OSD	-ppool
Ceph OSD Daemon	-sobject_size
Ceph Platform	-ustripe_unit
Ceph Point Release Ceph Project	cephx
Ceph Protocol	authentication; cephx configuration
Ceph Release	clone() (rbd.RBD method) close() (rbd.Image method)
Ceph Release Candidate	Cloud Platforms
Ceph service	Cloud Stacks
sysvinit; operating a cluster	cluster map
Ceph Stable Release	command line option
Ceph Stack	nodaemon
Ceph Storage Cluster	smallmds
capacity planning	valgrind[_{osd,mds,mon}] 'valgrind_toolname [args]'
Ceph System	-X
Ceph Test Framework	-d,debug
ceph-authtool command line option	-i ip_address
add-key	-k
cap subsystem capability	-l,localhost
caps capsfile	-m ip[:port]
gen-key	-n,new
-C,create-keyring	-o config
-l,list	-r
-p,print	-X
ceph-clsinfo command line option	commands
-a,arch	control
-n,name	copy() (rbd.lmage method)
-v,version	count_tests
ceph-debugpack command line option	ceph-dencoder command line option
-c ceph.conf,conf=ceph.conf	create() (rbd.RBD method)
ceph-dencoder command line option	create_snap() (rbd.Image method)
count_tests	CRUSH
decode	architecture
dump_ison	crushtool command line option
encode	buildnum_osds {num-osds} layer1
export <file></file>	clobber
get_features	test
import <file></file>	-c map.txt
list_types	-d map
select_test <n></n>	-o outfile
set_features <f></f>	names, see crushtoolhelp for more information.
type <name></name>	will perform a dry run of a CRUSH mapping for a range of
version	input object
ceph-fuse command line option	
-c ceph.conf,conf=ceph.conf	
-d	
-m monaddress[:port]	

-r root_directory

decode

ceph-dencoder command line option diff_iterate() (rbd.Image method)

discard() (rbd.Image method) dump_json ceph-dencoder command line option

Ε

Each [*stripe_unit*] contiguous bytes are stored adjacently in export <file> the same object, before we move on

rbd command line option

encode

ceph-dencoder command line option

ceph-dencoder command line option

Extensibility

F

filestore

btrfs

extended attributes

flusher

journal

queue

synchronization

timeouts

filesystems

flatten() (rbd.Image method) flush() (rbd.Image method)

G

get_features

ceph-dencoder command line option

hard drive preparation heartbeat, [1] heartbeat interval

high availability

monitor architecture

quorum

Host

Image (class in rbd) import <file>

ceph-dencoder command line option

invalidate_cache() (rbd.Image method)

is 22, or 4 MB.

rbd command line option

is_protected_snap() (rbd.Image method)

journal

journal configuration

K

kb (C member) kb_avail (C member) kb used (C member)

keys

keyring

librados

LIBRADOS_VER_MINOR (C macro)

list_lockers() (rbd.lmage method) LIBRADOS SNAP DIR (C macro) list snaps() (rbd.Image method) LIBRADOS SNAP HEAD (C macro) list types LIBRADOS SUPPORTS WATCH (C macro) ceph-dencoder command line option LIBRADOS_VER_EXTRA (C macro) lock exclusive() (rbd.Image method) LIBRADOS_VER_MAJOR (C macro) lock_shared() (rbd.Image method) М **MDS** monitor mkcephfs command line option monitor heartbeat monmaptool command line option --init-local-daemons type -d dir --add name ip:port --mkfs --clobber --no-copy-conf --prepare-mon -d dir --create --filter-initial-members --prepare-monmap -d dir -c ceph.conf --fsid uuid -a. --allhosts --generate -c ceph.conf, --conf=ceph.conf -k /path/to/keyring --print MON --rm name Ν names, see crushtool --help for more information. num objects (C member), [1] num_objects_degraded (C member) crushtool command line option num_objects_missing_on_primary (C member) **Node** num_objects_unfound (C member) num bytes (C member) num_rd (C member) num kb (C member) num_rd_kb (C member) num object clones (C member) num_wr (C member) num_object_copies (C member) num_wr_kb (C member) 0 **Object Storage Device** OSD down report **OSD** hearbeat order rbd command line option **OSD** status OSD, [1] osdmaptool command line option backfilling --clobber --createsimple numosd [--pgbits bitsperosd] config settings --export-crush mapfile configuration --import-crush mapfile journal settings --print operations settings osdmap recovery scrubbing P

LIBRADOS_VERSION (C macro)
LIBRADOS_VERSION_CODE (C macro)

list_children() (rbd.Image method)

protect_snap() (rbd.Image method)

Python Enhancement Proposals

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list() (rbd.RBD method)

pools

peering failure

OpenStack configuration

rbd command line option

point, we move on to the next [*stripe_count*] objects.

librados-config command line option

LIBRADOS_LOCK_FLAG_RENEW (C macro)

--vernum

--version

RADOS	rados_osd_command (C function)
RADOS Cluster	rados_pg_command (C function)
rados command line option	rados_pool_create (C function)
-c ceph.conf,conf=ceph.conf	rados_pool_create_with_all (C function)
-i infile	rados_pool_create_with_auid (C function)
-m monaddress[:port]	rados_pool_create_with_crush_rule (C function)
-o outfile	rados_pool_delete (C function)
-p pool,pool pool	rados_pool_list (C function)
-s snap,snap snap	rados_pool_lookup (C function) rados pool reverse lookup (C function)
RADOS Gateway	rados_pool_stat_t (C type)
rados_aio_append (C function)	rados_pool_stat_t (e type) rados_read (C function)
rados_aio_create_completion (C function)	rados_remove (C function)
rados_aio_flush (C function)	rados_rmxattr (C function)
rados_aio_flush_async (C function) rados_aio_get_return_value (C function)	rados_rollback (C function)
rados_aio_is_complete (C function)	rados_setxattr (C function)
rados_aio_is_complete_and_cb (C function)	rados_shutdown (C function)
rados_aio_is_safe (C function)	rados_snap_t (C type) rados_stat (C function)
rados_aio_is_safe_and_cb (C function)	rados_stat (e ranction)
rados_aio_read (C function)	rados_tmap_get (C function)
rados_aio_release (C function)	rados_tmap_put (C function)
rados_aio_remove (C function)	rados_tmap_update (C function)
rados_aio_stat (C function) rados_aio_wait_for_complete (C function)	rados_trunc (C function)
rados_aio_wait_for_complete_and_cb (C function)	rados_unlock (C function)
rados_aio_wait_for_safe (C function)	rados_unwatch (C function)
rados_aio_wait_for_safe_and_cb (C function)	rados_version (C function) rados_watch (C function)
rados_aio_write (C function)	rados_watchcb_t (C type)
rados_aio_write_full (C function)	rados_write (C function)
rados_append (C function)	rados_write_full (C function)
rados_break_lock (C function)	rados_xattrs_iter_t (C type)
rados_buffer_free (C function) rados_callback_t (C type)	radosgw command line option
rados_cct (C function)	rgw-socket-path=path
rados_clone_range (C function)	-c ceph.conf,conf=ceph.conf
rados_cluster_fsid (C function)	-m monaddress[:port]
rados_cluster_stat (C function)	radosgw-admin command line option
rados_cluster_stat_t (C type)	auth-uid=auid
rados_completion_t (C type)	bucket=bucket
rados_conf_get (C function)	date=yyyy-mm-dd
rados_conf_parse_argv (C function) rados_conf_parse_argv_remainder (C function)	display-name=name
rados_conf_parse_env (C function)	email=email
rados_conf_read_file (C function)	end-date=yyyy-mm-dd lazy-remove
rados_conf_set (C function)	object=object
rados_config_t (C type)	purge-data
rados_connect (C function)	purge-data purge-objects
rados_create (C function)	secret=secret
rados_create2 (C function) rados_create_with_context (C function)	start-date=yyyy-mm-dd
rados_exec (C function)	uid=uid
rados_get_instance_id (C function)	-c ceph.conf,conf=ceph.conf
rados_get_last_version (C function)	-m monaddress[:port]
rados_getxattr (C function)	RBD
rados_getxattrs (C function)	(class in rbd)
rados_getxattrs_end (C function)	rbd (module)
rados_getxattrs_next (C function)	rbd command line option
rados_ioctx_cct (C function) rados_ioctx_create (C function)	format format
rados_ioctx_destroy (C function)	id username
rados_ioctx_get_cluster (C function)	image-format format
rados_ioctx_get_id (C function)	keyfile filename
rados_ioctx_get_pool_name (C function)	keyring filename
rados_ioctx_locator_set_key (C function)	no-progress
rados_ioctx_pool_get_auid (C function)	order bits
rados_ioctx_pool_set_auid (C function) rados_ioctx_pool_stat (C function)	pretty-format
rados_ioctx_pool_stat (C function) rados_ioctx_selfmanaged_snap_create (C function)	shared tag
rados_ioctx_selfmanaged_snap_remove (C function)	size size-in-mb
rados_ioctx_selfmanaged_snap_rollback (C function)	snap snap
rados_ioctx_selfmanaged_snap_set_write_ctx (C function)	stripe-count num

rados_ioctx_set_namespace (C function) --stripe-unit size-in-bytes rados_ioctx_snap_create (C function) -c ceph.conf, --conf ceph.conf rados_ioctx_snap_get_name (C function) -m monaddress[:port] rados_ioctx_snap_get_stamp (C function) -p pool, --pool pool rados_ioctx_snap_list (C function) After we write [*stripe_unit*] bytes to [*stripe_count*] rados ioctx snap lookup (C function) objects, we loop back to the initial object rados ioctx snap remove (C function) Each [*stripe_unit*] contiguous bytes are stored rados ioctx snap set read (C function) adjacently in the same object, before we move on rados ioctx t (C type) The size of objects we stripe over is a power of two, rados list ctx t (C type) specifially 2^[*order*] bytes. The default rados list lockers (C function) rados lock exclusive (C function) and write another stripe, until the object reaches its rados_lock_shared (C function) maximum size (as specified by [*order*]. At that rados_log_callback_t (C type) is 22, or 4 MB. rados_mon_command (C function) order rados_mon_command_target (C function) point, we move on to the next [*stripe count*] objects. rados_monitor_log (C function) stripe count rados_notify (C function) stripe_unit rados_objects_list_close (C function) to the next object. rados_objects_list_next (C function) rbd-fuse command line option rados_objects_list_open (C function) -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) **RGW** rollback_to_snap() (rbd.Image method)

S

scalability Snaplterator (class in rbd) select test <n> stat() (rbd.Image method) ceph-dencoder command line option stripe count rbd command line option set features <f> stripe count() (rbd.Image method) ceph-dencoder command line option stripe_unit set_snap() (rbd.Image method) signatures rbd command line option size() (rbd.Image method) stripe unit() (rbd.Image method)

Τ

Teuthology

The size of objects we stripe over is a power of two, specifially 2^{moder} bytes. The default

rbd command line option

to the next object.

rbd command line option

type <name>

ceph-dencoder command line option

U

unlock() (rbd.Image method)
unprotect_snap() (rbd.Image method)

Upstart

operating a cluster

٧

version

version() (rbd.RBD method)

ceph-dencoder command line option

W

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

