

RADOS – RADOS OBJECT STORAGE UTILITY

SYNOPSIS

rados [-m *monaddr*] [mkpool | rmpool *foo*] [-p | -pool *pool*] [-s | -snap *snap*] [-i *infile*] [-o *outfile*] *command* ...

DESCRIPTION

rados is a utility for interacting with a Ceph object storage cluster (RADOS), part of the Ceph distributed file system.

OPTIONS

- p** *pool*, **--pool** *pool*
Interact with the given pool. Required by most commands.
- s** *snap*, **--snap** *snap*
Read from the given pool snapshot. Valid for all pool-specific read operations.
- i** *infile*
will specify an input file to be passed along as a payload with the command to the monitor cluster. This is only used for specific monitor commands.
- o** *outfile*
will write any payload returned by the monitor cluster with its reply to outfile. Only specific monitor commands (e.g. osd getmap) return a payload.
- c** *ceph.conf*, **--conf**=*ceph.conf*
Use *ceph.conf* configuration file instead of the default */etc/ceph/ceph.conf* to determine monitor addresses during startup.
- m** *monaddress[:port]*
Connect to specified monitor (instead of looking through *ceph.conf*).

GLOBAL COMMANDS

ls

List object pools

df

Show utilization statistics, including disk usage (bytes) and object counts, over the entire system and broken down by pool.

mkpool *foo*

Create a pool with name *foo*.

rmpool *foo* [*foo* -yes-i-really-really-mean-it]

Delete the pool *foo* (and all its data)

POOL SPECIFIC COMMANDS

get *name outfile*

Read object name from the cluster and write it to outfile.

put *name infile*

Write object name to the cluster with contents from infile.

rm *name*

Remove object name.

ls *outfile*

List objects in given pool and write to outfile.

lssnap

List snapshots for given pool.

mksnap *foo*

Create pool snapshot named *foo*.

rmsnap *foo*

Remove pool snapshot names *foo*.

bench *seconds mode* [*-b objsize*] [*-t threads*]

Benchmark for seconds. The mode can be write or read. The default object size is 4 MB, and the default number of simulated threads (parallel writes) is 16.

listomapkeys *name*

List all the keys stored in the object map of object name.

listomapvals *name*

List all key/value pairs stored in the object map of object name. The values are dumped in hexadecimal.

getomapval *name key*

Dump the hexadecimal value of key in the object map of object name.

setomapval *name key value*

Set the value of key in the object map of object name.

rmomapkey *name key*

Remove key from the object map of object name.

getomapheader *name*

Dump the hexadecimal value of the object map header of object name.

setomapheader *name value*

Set the value of the object map header of object name.

EXAMPLES

To view cluster utilization:

```
rados df
```

To get a list object in pool foo sent to stdout:

```
rados -p foo ls -
```

To write an object:

```
rados -p foo put myobject blah.txt
```

To create a snapshot:

```
rados -p foo mksnap mysnap
```

To delete the object:

```
rados -p foo rm myobject
```

To read a previously snapshotted version of an object:

```
rados -p foo -s mysnap get myobject blah.txt.old
```

AVAILABILITY

rados is part of the Ceph distributed file system. Please refer to the Ceph documentation at <http://ceph.com/docs> for more information.

SEE ALSO

[ceph](#)(8)