

CEPH-SYN – CEPH SYNTHETIC WORKLOAD GENERATOR

SYNOPSIS

ceph-syn [-m *monaddr:port*] -syn *command* ...

DESCRIPTION

ceph-syn is a simple synthetic workload generator for the Ceph distributed file system. It uses the userspace client library to generate simple workloads against a currently running file system. The file system need not be mounted via ceph-fuse(8) or the kernel client.

One or more - -syn command arguments specify the particular workload, as documented below.

OPTIONS

- d**
Detach from console and daemonize after startup.
- 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).
- num_client** *num*
Run *num* different clients, each in a separate thread.
- syn** *workloadspec*
Run the given workload. May be specified as many times as needed. Workloads will normally run sequentially.

WORKLOADS

Each workload should be preceded by - -syn on the command line. This is not a complete list.

- mknap** *path snapname*
Create a snapshot called *snapname* on *path*.
- rmsnap** *path snapname*
Delete snapshot called *snapname* on *path*.
- rmfile** *path*
Delete/unlink *path*.
- writefile** *sizeinmb blocksize*
Create a file, named after our client id, that is *sizeinmb* MB by writing *blocksize* chunks.
- readfile** *sizeinmb blocksize*
Read file, named after our client id, that is *sizeinmb* MB by writing *blocksize* chunks.
- rw** *sizeinmb blocksize*
Write file, then read it back, as above.
- makedirs** *numsubdirs numfiles depth*
Create a hierarchy of directories that is *depth* levels deep. Give each directory *numsubdirs* subdirectories and *numfiles* files.
- walk**
Recursively walk the file system (like find).

AVAILABILITY

ceph-syn is part of Ceph, a massively scalable, open-source, distributed storage system. Please refer to the Ceph documentation at <http://ceph.com/docs> for more information.

SEE ALSO

[ceph\(8\)](#), [ceph-fuse\(8\)](#)