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 the Ceph distributed file system. Please refer to the Ceph documentation at http://ceph.com/docs for more information.

SEE ALSO

ceph(8), ceph-fuse(8)