MOUNT.CEPH – MOUNT A CEPH FILE SYSTEM

SYNOPSIS

mount.ceph *monaddr1*[,*monaddr2*,...]:/[*subdir*] *dir* [-o *options*]

DESCRIPTION

mount.ceph is a simple helper for mounting the Ceph file system on a Linux host. It serves to resolve monitor hostname(s) into IP addresses and read authentication keys from disk; the Linux kernel client component does most of the real work. In fact, it is possible to mount a non-authenticated Ceph file system without mount.ceph by specifying monitor address(es) by IP:

```
mount -t ceph 1.2.3.4:/ mountpoint
```

Each monitor address monaddr takes the form host[:port]. If the port is not specified, the Ceph default of 6789 is assumed.

Multiple monitor addresses can be separated by commas. Only one responsible monitor is needed to successfully mount; the client will learn about all monitors from any responsive monitor. However, it is a good idea to specify more than one in case one happens to be down at the time of mount.

A subdirectory subdir may be specified if a subset of the file system is to be mounted.

Mount helper application conventions dictate that the first two options are device to be mounted and destination path. Options must be passed only after these fixed arguments.

OPTIONS

wsize
  int (bytes), max write size. Default: none (writeback uses smaller of wsize and stripe unit)

rsize
  int (bytes), max read size. Default: none

rasize
  int (bytes), max readahead, multiple of 1024, Default: 8388608 (8192*1024)

osdtimeout
  int (seconds), Default: 60

osdkeepalive
  int, Default: 5

mount_timeout
  int (seconds), Default: 60

osd_idle_ttl
  int (seconds), Default: 60

caps_wanted_delay_min
  int, cap release delay, Default: 5

caps_wanted_delay_max
  int, cap release delay, Default: 60

cap_release_safety
  int, Default: calculated

readdir_max_entries
  int, Default: 1024

readdir_max_bytes
  int, Default: 524288 (512*1024)

write_congestion_kb
  int (kb), max writeback in flight. scale with available memory. Default: calculated from available memory

snapdirname
  string, set the name of the hidden snapdir. Default: .snap

name
  RADOS user to authenticate as when using cephx. Default: guest

secret
  secret key for use with cephx. This option is insecure because it exposes the secret on the command line. To avoid this, use the secretfile option.

secretfile
  path to file containing the secret key to use with cephx

ip
  my ip

noshare
  create a new client instance, instead of sharing an existing instance of a client mounting the same cluster

dirstat
  funky *cat dirname* for stats, Default: off

nodirstat
  no funky *cat dirname* for stats

rbytes
  Report the recursive size of the directory contents for st_size on directories. Default: on

norbytes
  Do not report the recursive size of the directory contents for st_size on directories.

nocrc
  no data crc on writes

noasyncreaddir
  no dcache readdir

EXAMPLES

Mount the full file system:

```
mount.ceph monhost:/ /mnt/foo
```

If there are multiple monitors:

```
mount.ceph monhost1,monhost2,monhost3:/ /mnt/foo
```

If ceph-mon(8) is running on a non-standard port:

```
mount.ceph monhost1:7000,monhost2:7000,monhost3:7000:/ /mnt/foo
```

To mount only part of the namespace:

```
mount.ceph monhost1:/some/small/thing /mnt/thing
```

Assuming mount.ceph(8) is installed properly, it should be automatically invoked by mount(8) like so:

```
mount -t ceph monhost:/ /mnt/foo
```

AVAILABILITY

mount.ceph 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-fuse(8), ceph(8)