

CEPH FS QUICK START

To use the **Ceph FS** Quick Start guide, you must have executed the procedures in the **Ceph Deploy Quick Start** guide first. Execute this quick start on the Admin Host.

PREREQUISITES

Install `ceph-common`.

```
sudo apt-get install ceph-common
```

Ensure that the **Ceph Storage Cluster** is running and in an active + clean state. Also, ensure that you have at least one **Ceph Metadata Server** running.

```
ceph -s [-m {monitor-ip-address}] [-k {path/to/ceph.client.admin.keyring}]
```

CREATE A SECRET FILE

The Ceph Storage Cluster runs with authentication turned on by default. You should have a file containing the secret key (i.e., not the keyring itself). To obtain the secret key for a particular user, perform the following procedure:

1. Identify a key for a user within a keyring file. For example:

```
cat ceph.client.admin.keyring
```

2. Copy the key of the user who will be using the mounted Ceph FS filesystem. It should look something like this:

```
[client.admin]
key = AQCj2YpRiAe6CxAA7/ETt7Hcl9IyxyYciVs47w==
```

3. Open a text editor.
4. Paste the key into an empty file. It should look something like this:

```
AQCj2YpRiAe6CxAA7/ETt7Hcl9IyxyYciVs47w==
```

5. Save the file with the user name as an attribute (e.g., `admin.secret`).
6. Ensure the file permissions are appropriate for the user, but not visible to other users.

KERNEL DRIVER

Mount Ceph FS as a kernel driver.

```
sudo mkdir /mnt/mycephfs
sudo mount -t ceph {ip-address-of-monitor}:6789:/ /mnt/mycephfs
```

The Ceph Storage Cluster uses authentication by default. Specify a user name and the `secretfile` you created in the **Create a Secret File** section. For example:

```
sudo mount -t ceph 192.168.0.1:6789:/ /mnt/mycephfs -o name=admin,secretfile=admin.secret
```

Note: Mount the Ceph FS filesystem on the admin node, not the server node. See [FAQ](#) for details.

FILESYSTEM IN USER SPACE (FUSE)

Mount Ceph FS as a Filesystem in User Space (FUSE).

```
sudo mkdir ~/mycephfs
sudo ceph-fuse -m {ip-address-of-monitor}:6789 ~/mycephfs
```

The Ceph Storage Cluster uses authentication by default. Specify a keyring if it is not in the default location (i.e., /etc/ceph):

```
sudo ceph-fuse -k ./ceph.client.admin.keyring -m 192.168.0.1:6789 ~/mycephfs
```

ADDITIONAL INFORMATION

See [Ceph FS](#) for additional information. Ceph FS is not quite as stable as the Ceph Block Device and Ceph Object Storage. See [Troubleshooting](#) if you encounter trouble.