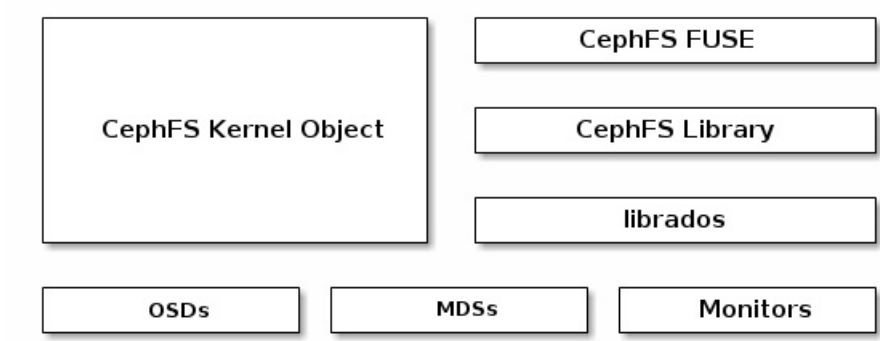


CEPH FILESYSTEM

The **Ceph Filesystem** (Ceph FS) is a POSIX-compliant filesystem that uses a Ceph Storage Cluster to store its data. The Ceph filesystem uses the same Ceph Storage Cluster system as Ceph Block Devices, Ceph Object Storage with its S3 and Swift APIs, or native bindings (librados).

Note: If you are evaluating CephFS for the first time, please review the best practices for deployment: [CephFS best practices](#)



USING CEPHFS

Using the Ceph Filesystem requires at least one **Ceph Metadata Server** in your Ceph Storage Cluster.

STEP 1: METADATA SERVER	STEP 2: MOUNT CEPHFS	ADDITIONAL DETAILS
<p>To run the Ceph Filesystem, you must have a running Ceph Storage Cluster with at least one Ceph Metadata Server running.</p> <ul style="list-style-type: none">• Add/Remove MDS(s)• Terminology• Referring to MDS daemons• Managing failover• Configuring standby daemons• Examples• MDS Configuration Settings• Client Configuration Settings• Journaler Configuration• Manpage ceph-mds	<p>Once you have a healthy Ceph Storage Cluster with at least one Ceph Metadata Server, you may create and mount your Ceph Filesystem. Ensure that your client has network connectivity and the proper authentication keyring.</p> <ul style="list-style-type: none">• Create CephFS• Mount CephFS• Mount CephFS as FUSE• Mount CephFS in fstab• Manpage ceph-fuse• Manpage mount.ceph• Manpage mount.fuse.ceph	<ul style="list-style-type: none">• Deployment best practices• Administrative commands• Understanding MDS Cache Size Limits• POSIX compatibility• Experimental Features• Previously experimental features• CephFS Quotas• Using Ceph with Hadoop• cephfs-journal-tool• File layouts• Client eviction• Handling full filesystems• Health messages• Troubleshooting• Disaster recovery• Client authentication• Upgrading old filesystems• Configuring directory fragmentation• Configuring multiple active MDS daemons

FOR DEVELOPERS

- [Client's Capabilities](#)
- [libcephfs](#)
- [Mantle](#)

