

query the remote cluster (file differences are calculated between local snapshots) and needs only to transfer the updated files to the remote cluster.

The CephFS mirroring module is disabled by default. To configure a snapshot mirror for CephFS, you must enable the `mirroring` module on the source and remote clusters:

```
[ceph: root@server /]# ceph mgr module enable mirroring
```

Then, you can deploy the CephFS mirroring daemon on the source cluster:

```
[ceph: root@source /]# ceph orch apply cephfs-mirror [node-name]
```

The previous command deploys the CephFS mirroring daemon on `node-name` and creates the Ceph user `cephfs-mirror`. For each CephFS peer, you must create a user on the target cluster:

```
[ceph: root@target /]# ceph fs authorize fs-name client_ / rwps
```

Then, you can enable mirroring on the source cluster. Mirroring must be enabled for a specific file system.

```
[ceph: root@source /]# ceph fs snapshot mirror enable fs-name
```

The next step is to prepare the target peer. You can create the peer bootstrap in the target node with the next command:

```
[ceph: root@target /]# ceph fs snapshot mirror peer_bootstrap create \
fs-name peer-name site-name
```

You can use the `site-name` string to identify the target storage cluster. When the target peer is created, you must import into the source cluster the bootstrap token from creating the peer on the target cluster:

```
[ceph: root@source /]# ceph fs snapshot mirror peer_bootstrap import \
fs-name bootstrap-token
```

Finally, configure a directory for snapshot mirroring on the source cluster with the following command:

```
[ceph: root@source /]# ceph fs snapshot mirror add fs-name path
```