

The following list outlines the steps required to configure mirroring between two clusters, called prod and backup:

1. Create a pool with the same name in both clusters, prod and backup.
2. Create or modify the RBD image with the exclusive-lock, and journaling features enabled.
3. Enable pool-mode or image-mode mirroring on the pool.
4. In the prod cluster, bootstrap the storage cluster peer and save the bootstrap token
5. Deploy a rbd-mirror daemon.
 - For one-way replication the rbd-mirror daemon runs only on the backup cluster.
 - For two-way replication the rbd-mirror daemon runs on both clusters.
6. In the backup cluster, import the bootstrap token.
 - For one-way replication, use the `--direction rx-only` argument.

Step by Step One-way Pool Mode Example

In this example, you see the step-by-step instructions needed to configure one-way mirroring with the prod and backup clusters.

```
[admin@node ~]$ ssh admin@prod-node
[admin@prod-node ~]# sudo cephadm shell --mount /home/admin/token/
[ceph: root@prod-node /]# ceph osd pool create rbd 32 32
pool 'rbd' created
[ceph: root@prod-node /]# ceph osd pool application enable rbd rbd
enabled application 'rbd' on pool 'rbd'
[ceph: root@prod-node /]# rbd pool init -p rbd
[ceph: root@prod-node /]# rbd create my-image \
--size 1024 \
--pool rbd \
--image-feature=exclusive-lock,journaling
[ceph: root@prod-node /]# rbd mirror pool enable rbd pool
[ceph: root@prod-node /]# rbd --image my-image info
rbd image 'my-image':
  size 1 GiB in 256 objects
  order 22 (4 MiB objects)
  snapshot_count: 0
  id: acf674690a0c
  block_name_prefix: rbd_data.acf674690a0c
  format: 2
  features: exclusive-lock, journaling
  op_features:
  flags:
  create_timestamp: Wed Oct  6 22:07:41 2021
  access_timestamp: Wed Oct  6 22:07:41 2021
  modify_timestamp: Wed Oct  6 22:07:41 2021
  journal: acf674690a0c
  mirroring state: enabled
  mirroring mode: journal
  mirroring global id: d1140b2e-4809-4965-852a-2c21d181819b
```