BLOCK DEVICE QUICK START

To use this guide, you must have executed the procedures in the Object Store Quick Start guide first. Ensure your Ceph Storage Cluster is in an `active + clean` state before working with the Ceph Block Device. Execute this quick start on the admin node.

> **Note:** The Ceph Block Device is also known as RBD or RADOS Block Device.

1. Install `ceph-common`.

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

2. Create a block device image.

   ```
   rbd create foo --size 4096       [-m {mon-IP}] [-k /path/to/ceph.client.admin.keyring]
   ```

3. Load the rbd client module.

   ```
   sudo modprobe rbd
   ```

4. Map the image to a block device.

   ```
   sudo rbd map foo --pool rbd --name client.admin [-m {mon-IP}] [-k /path/to/ceph.client.ad
   ```

5. Use the block device. In the following example, create a file system.

   ```
   sudo mkfs.ext4 -m0 /dev/rbd/rbd/foo

   This may take a few moments.
   ```

6. Mount the file system.

   ```
   sudo mkdir /mnt/ceph-block-device
   sudo mount /dev/rbd/rbd/foo /mnt/ceph-block-device
   cd /mnt/ceph-block-device
   ```

> **Note:** Mount the block device on the client machine, not the server machine. See FAQ for details.

See block devices for additional details.