

```
[root@clienta ~]# touch /mnt/mycephfs/dir1/atestfile
[root@clienta ~]# dd if=/dev/zero of=/mnt/mycephfs/dir1/ddtest \
bs=1024 count=10000
10000+0 records in
10000+0 records out
10240000 bytes (10 MB, 9.8 MiB) copied, 0.0208212 s, 492 MB/s
```

2.7. Unmount the CephFS file system.

```
[root@clienta ~]# umount /mnt/mycephfs
```

- 3. Run the `ceph fs status` command and inspect the size of the used data in the `mycephfs_data` pool. The larger size is reported because the CephFS file system replicates across the three Ceph nodes.

```
[root@clienta ~]# cephadm shell -- ceph fs status
Inferring fsid 472b24e2-1821-11ec-87d7-52540000fa0c
Inferring config /var/lib/ceph/472b24e2-1821-11ec-87d7-52540000fa0c/mon.clienta/
config
Using recent ceph image registry.redhat.io/rhceph/rhceph-5-
rhel8@sha256:6306...a47ff
mycephfs - 0 clients
=====
RANK STATE MDS ACTIVITY DNS INOS DIRS CAPS
0 active mycephfs.serverc.mycctv Reqs: 0 /s 14 17 14 0
POOL TYPE USED AVAIL
mycephfs_metadata metadata 152k 28.4G
mycephfs_data data 29.2M 28.4G
MDS version: ceph version 16.2.0-117.el8cp
(0e34bb74700060ebfaa22d99b7d2cdc037b28a57) pacific (stable)
```

- 4. Create a `restricteduser` user, which has read access to the root folder, and read and write permissions on the `dir2` folder. Use this new user to mount again the CephFS file system on `clienta` and check the permissions.
- 4.1. Create the `restricteduser` user with read permission on the root folder, and read and write permissions on the `dir2` folder. Use the `cephadm shell --mount` option to copy the user key-ring file to the `/etc/ceph` folder on `clienta`.

```
[root@clienta ~]# cephadm shell --mount /etc/ceph/
[ceph: root@clienta /]# ceph fs authorize mycephfs client.restricteduser \
/ r /dir2 rw
[client.restricteduser]
key = AQBc315hI7PaBRAA9/9fdmj+wjblK+izstA0aQ==
[ceph: root@clienta /]# ceph auth get client.restricteduser \
-o /mnt/ceph.client.restricteduser.keyring
[ceph: root@clienta /]# exit
exit
```

4.2. Use the kernel client to mount the `mycephfs` file system with this user.