```
[admin@clienta ~]$ setfattr -n ceph.file.layout.stripe_count \
-v 3 /mnt/mycephfs/dir1/anewfile
[admin@clienta ~]$ getfattr -n ceph.file.layout /mnt/mycephfs/dir1/anewfile
getfattr: Removing leading '/' from absolute path names
# file: mnt/mycephfs/dir1/anewfile
ceph.file.layout="stripe_unit=4194304 stripe_count=3 object_size=4194304
 pool=mycephfs_data"
```

2.7. Ensure that the /mnt/mycephfs/dir1/anewfile file is not empty. Verify that you cannot modify a specific file's layout attributes if the file is not empty.

```
[admin@clienta ~]$ echo "Not empty" > /mnt/mycephfs/dir1/anewfile
[admin@clienta ~]$ setfattr -n ceph.file.layout.stripe_count \
-v 4 /mnt/mycephfs/dir1/anewfile
setfattr: /mnt/mycephfs/dir1/anewfile: Directory not empty
```

2.8. Clear the configured layout attributes for the /mnt/mycephfs/dir1 directory. Verify the new layout settings (that are inherited from the top of the CephFS file system) by creating a file called a3rdfile.

```
[admin@clienta ~]$ setfattr -x ceph.dir.layout /mnt/mycephfs/dir1
[admin@clienta ~]$ touch /mnt/mycephfs/dir1/a3rdfile
[admin@clienta ~]$ getfattr -n ceph.file.layout /mnt/mycephfs/dir1/a3rdfile
getfattr: Removing leading '/' from absolute path names
# file: mnt/mycephfs/dir1/a3rdfile
ceph.file.layout="stripe_unit=4194304 stripe_count=1 object_size=4194304
 pool=mycephfs_data"
```

▶ **3.** Create a snapshot for your CephFS file system. Mount the CephFS file system on /mnt/mycephfs as the user restricteduser.

3.1. Unmount the /mnt/mycephfs folder and mount again the CephFS file system to that folder as the user restricteduser.

```
[admin@clienta ~]$ sudo umount /mnt/mycephfs
[admin@clienta ~]$ sudo mount.ceph serverc.lab.example.com:/ \
/mnt/mycephfs -o name=restricteduser
```

3.2. Navigate to the hidden .snap folder in /mnt/mycephfs.

```
[admin@clienta ~]$ cd /mnt/mycephfs/.snap
```

3.3. Create a mysnapshot folder, which is the snapshot name. As the user restricteduser does not currently have snapshot permissions, you must grant snapshot permissions to this user. After you set the permissions, you must remount the CephFS file system to use the new permissions.

```
[admin@clienta .snap]$ mkdir mysnapshot
mkdir: cannot create directory 'mysnapshot': Permission denied
[admin@clienta .snap]$ sudo cephadm shell
[ceph: root@clienta /]# ceph auth get client.restricteduser
```