

```
[ceph: root@clienta ~]# exit
exit
[admin@clienta ~]$ sudo -i
[root@clienta ~]# yum install -y ceph-common
...output omitted...
```

- 2.2. Extract the key-ring associated with the `client.admin` user, and save it in the `/root/secretfile` file.

```
[root@clienta ~]# ceph auth get-key client.admin | tee /root/secretfile
...output omitted...
```

- 2.3. Create a new directory called `/mnt/cephfs` to use as a mount point for the CephFS file system. Mount your new CephFS file system on that directory.

```
[root@clienta ~]# mkdir /mnt/cephfs
[root@clienta ~]# mount -t ceph serverc:/ /mnt/cephfs \
-o name=admin,secretfile=/root/secretfile
```

- 2.4. Verify the mount.

```
[root@clienta ~]# df /mnt/cephfs
Filesystem      1K-blocks  Used Available Use% Mounted on
172.25.250.12:/ 29790208    0 29790208   0% /mnt/cephfs
```

- 2.5. Change the ownership of the top-level directory of the mounted file system to user and group `admin`.

```
[root@clienta ~]# chown admin:admin /mnt/cephfs
```

3. As the `admin` user, create the `ceph01` and `ceph02` directories. Create an empty file called `firstfile` on the `ceph01` directory. Ensure the directories and its contents are owned by the `admin` user.
 - 3.1. Exit the `root` user session. Create two directories directly underneath the mount point, and name them `dir1` and `dir2`.

```
[root@clienta ~]# exit
exit
[admin@clienta ~]$ mkdir /mnt/cephfs/ceph01
[admin@clienta ~]$ mkdir /mnt/cephfs/ceph02
```

- 3.2. Create an empty file called `firstfile` in the `ceph01` directory.

```
[admin@clienta ~]$ touch /mnt/cephfs/ceph01/firstfile
```

4. Set the `ceph.dir.layout.stripe_count` layout attribute to 2 for files created on the `/mnt/cephfs/ceph01` directory. Create a 10 MB file called `secondfile` on the `/mnt/cephfs/ceph01` directory with the new layout attribute.