

```
[ceph: root@node /]# ceph config get mon auth_service_required
cephx
[ceph: root@node /]# ceph config get mon auth_cluster_required
cephx
[ceph: root@node /]# ceph config get mon auth_client_required
cephx
```

The `/etc/ceph` directory and daemon data directories contain the Cephx key-ring files. For MONs, the data directory is `/var/lib/ceph/$fsid/mon.$host/`.



#### Note

Key-ring files store the secret key as plain text. Secure them with appropriate Linux file permissions.

Use the `ceph auth` command to create, view, and manage cluster keys. Use the `ceph-authtool` command to create key-ring files.

The following command creates a key-ring file for the MON nodes.

```
[ceph: root@node /]# ceph-authtool --create-keyring /tmp/ceph.mon.keyring \
--gen-key -n mon. --cap mon 'allow *'
creating /tmp/ceph.mon.keyring
```

The `cephadm` tool creates a `client.admin` user in the `/etc/ceph` directory, which allows you to run administrative commands and to create other Ceph client user accounts.



#### References

For more information, refer to the *Monitor Configuration Reference* chapter in the *Red Hat Ceph Storage 5 Configuration Guide* at [https://access.redhat.com/documentation/en-us/red\\_hat\\_ceph\\_storage/5/html-single/configuration\\_guide/index](https://access.redhat.com/documentation/en-us/red_hat_ceph_storage/5/html-single/configuration_guide/index)