

## Modifying the Cluster Configuration File

Each Ceph node stores a local cluster configuration file. The default location of the cluster configuration file is `/etc/ceph/ceph.conf`. The `cephadm` tool creates an initial Ceph configuration file with a minimal set of options.

The configuration file uses an INI file format, containing several sections that include configuration for Ceph daemons and clients. Each section has a name that is defined with the `[name]` header, and one or more parameters that are defined as a key-value pair.

```
[name]
parameter1 = value1
parameter2 = value2
```

Use a hash sign (`#`) or semicolon (`;`) to disable settings or to add comments.

Bootstrap a cluster with custom settings by using a cluster configuration file. Use the `cephadm bootstrap` command with the `--config` option to pass the configuration file.

```
[root@node ~]# cephadm bootstrap --config ceph-config.yaml
```

## Configuration Sections

Ceph organizes configuration settings into groups, whether stored in the configuration file or in the configuration database, using sections called for the daemons or clients to which they apply.

- The `[global]` section stores general configuration that is common to all daemons or any process that reads the configuration, including clients. You can override `[global]` parameters by creating called sections for individual daemons or clients.
- The `[mon]` section stores configuration for the Monitors (MON).
- The `[osd]` section stores configuration for the OSD daemons.
- The `[mgr]` section stores configuration for the Managers (MGR).
- The `[mds]` section stores configuration for the Metadata Servers (MDS).
- The `[client]` section stores configuration that applies to all the Ceph clients.



### Note

A well-commented sample `ceph.conf` example file can be found in `/var/lib/containers/storage/overlays/{ID}/merged/usr/share/doc/ceph/` on any cluster node, the area where podman manages containerized service data.

## Instance Settings

Group the settings that apply to a specific daemon instance in their own section, with a name of the form `[daemon-type.instance-ID]`.

```
[mon]
# Settings for all mon daemons

[mon.serverc]
# Settings that apply to the specific MON daemon running on serverc
```