```
# finally we disable the Cinder LVM backend
CinderEnableIscsiBackend: false
```

A `TripleO` deployment specifies a list of environment files for all of the overcloud services to be deployed, with an `openstack overcloud deploy` command. Before deployment, the `openstack tripleo container image prepare` command is used to determine all of the services that are referenced in the configuration, and prepare a list of the corrector containers to download and provide for the overcloud deployment. During the installation, `Kolla` is used to configure and start each service container on the correct nodes, as defined by the node roles.

For this external Ceph cluster example, `TripleO` needs a parameter file that specifies the real cluster parameters, to override the parameter defaults in the `ceph-ansible-external.yaml` file. This example `parameter-overrides.yaml` file is placed in your custom deployment files directory. You can obtain the key from the result of an appropriate `ceph auth add client.openstack` command.

```
parameter_defaults:
  # The cluster FSID
  CephClusterFSID: '4b5c8c0a-ff60-454b-a1b4-9747aa737d19'
  # The CephX user auth key
  CephClientKey: 'AQDLOh1VgEp6FRAAFzT7Zw+Y9V6JJExQAsRnRQ=='
  # The list of Ceph monitors
  CephExternalMonHost: '172.16.1.7, 172.16.1.8, 172.16.1.9'
```

`TripleO` relies on the `Bare Metal` service to prepare nodes before installing them as Ceph servers. Disk devices, both physical and virtual, must be cleaned of all partition tables and other artifacts. Otherwise, Ceph refuses to overwrite the device, after determining that the device is in use. To delete all metadata from disks, and create GPT labels, set the following parameter in the `/home/stack/undercloud.conf` file on the undercloud. The `Bare Metal` service boots the nodes and cleans the disks each time the node status is set to `available` for provisioning.

```
clean_nodes=true
```