

- To add multiple hosts, create a YAML file with host descriptions. Create the YAML file within the admin container where you will then run `ceph orch`.

```
service_type: host
addr:
hostname: new-osd-1
labels:
- mon
- osd
- mgr
---
service_type: host
addr:
hostname: new-osd-2
labels:
- mon
- osd
```

After creating the YAML file, run the `ceph orch apply` command to add the OSDs:

```
[ceph: root@adm ~]# ceph orch apply -i host.yaml
Added host 'new-osd-1' with addr '192.168.122.102'
Added host 'new-osd-1' with addr '192.168.122.103'
```

Listing Hosts

Use `ceph orch host ls` from the `cephadm` shell to list the cluster nodes. The `STATUS` column is blank when the host is online and operating normally.

```
[ceph: root@adm /]# ceph orch host ls
HOST          ADDR          LABELS        STATUS
existing-osd-1 192.168.122.101 mon
new-osd-1      192.168.122.102 mon osd mgr
new-osd-2      192.168.122.103 mon osd
```

Configuring Additional OSD Storage for OSD Servers

As a storage administrator, you can expand the Ceph cluster capacity by adding new storage devices to your existing OSD nodes, then using the `cephadm` orchestrator to configure them as OSDs. Ceph requires that the following conditions are met to consider a storage device:

- The device must not have any partitions.
- The device must not have any LVM state.
- The device must not be mounted.
- The device must not contain a file system.
- The device must not contain a Ceph BlueStore OSD.
- The device must be larger than 5 GB.

Run the `ceph orch device ls` command from the `cephadm` shell to list the available devices. The `--wide` option provides more device detail.