```
[student@workstation ansible]$ ssh admin@serverc
[admin@serverc ~]$ sudo -i
[root@serverc ~]# yum install cephadm-ansible
...output omitted...
Complete!
```

1.2. Create the hosts inventory file in the `/usr/share/cephadm-ansible` directory.

```
[root@serverc ~]# cd /usr/share/cephadm-ansible
[root@serverc cephadm-ansible]# cat hosts
clienta.lab.example.com
serverc.lab.example.com
serverd.lab.example.com
servere.lab.example.com
```

1.3. Run the `cephadm-preflight.yml` playbook.

```
[root@serverc cephadm-ansible]# ansible-playbook -i hosts \
cephadm-preflight.yml --extra-vars "ceph_origin="
...output omitted...
```

Note

The `ceph_origin` variable is set to empty, which causes some playbooks tasks to be skipped because, in this classroom, the Ceph packages are installed from a local classroom repository. In a production environment, set `ceph_origin` to `rhcs` to enable the Red Hat Storage Tools repository for your supported deployment.

2. On the `serverc` host, create the `initial-config-primary-cluster.yaml` cluster service specification file in the `/root/ceph` directory. Include four hosts with the following specifications:

   - Deploy MONs on `clienta`, `serverc`, `serverd`, and `servere`.
   - Deploy RGWs on `serverc` and `serverd`, with the `service_id` set to `realm.zone`.
   - Deploy MGRs on `clienta`, `serverc`, `serverd`, and `servere`.
   - Deploy OSDs on the `serverc`, `serverd`, and `servere` nodes, with the `service_id` set to `default_drive_group`. On all OSD nodes, use the `/dev/vdb`, `/dev/vdc`, and `/dev/vdd` drives as data devices.

Hostname	IP Address
clienta.lab.example.com	172.25.250.10
serverc.lab.example.com	172.25.250.12
serverd.lab.example.com	172.25.250.13
servere.lab.example.com	172.25.250.14

2.1. Create the `initial-config-primary-cluster.yaml` cluster service specification file in the `/root/ceph` directory.