▶ **Solution**

Creating Object Storage Cluster Components

In this lab, you will create and manage cluster components and authentication.

Outcomes

You should be able to create and configure BlueStore OSDs and pools, and set up authentication to the cluster.

Before You Begin

As the student user on the workstation machine, use the lab command to prepare your system for this lab.

```
[student@workstation ~]$ lab start component-review
```

This command confirms that the hosts required for this exercise are accessible.

Instructions

1. Log in to clienta as the admin user. Create a new OSD daemon by using the /dev/vde device on serverc. View the details of the OSD. Restart the OSD daemon and verify it starts correctly.

    1.1. Log in to serverc as the admin user and use sudo to run the cephadm shell.

```
[student@workstation ~]$ ssh admin@clienta
[admin@clienta ~]$ sudo cephadm shell
[ceph: root@clienta /]#
```

    1.2. Create a new OSD daemon by using the /dev/vde device on serverc.

```
[ceph: root@clienta /]# ceph orch daemon add osd serverc.lab.example.com:/dev/vde
Created osd(s) 9 on host 'serverc.lab.example.com'
```

    1.3. View the details of the OSD. The OSD ID might be different in your lab environment.

```
[ceph: root@clienta /]# ceph osd find 9
{
    "osd": 0,
    "addrs": {
        "addrvec": [
            {
                "type": "v2",
                "addr": "172.25.250.12:6816",
                "nonce": 2214147187
```