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Environment Setup Lab

Prerequisites

- `ssh` utility installed on your laptop
- Web browser installed on your laptop
- Broadband Internet connectivity

Goals

- In this first lab, you become oriented with the course lab assets provided to you.
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1. Order Lab Environment

This section guides you through the procedure to order the lab environment.

The lab environment consists of an OCP cluster with 3 master and 3 worker nodes. Later in this course, you will layer Red Hat Service Mesh on this OCP cluster.

1. Begin by navigating to the [OPENTLC lab portal \(https://labs.opentlc.com/\)](https://labs.opentlc.com/).
 2. Authenticate using your OPENTLC credentials—for example, `johndoe-redhat.com`.
 3. Navigate to **Services** → **Catalog** → **Catalog Items** → **OPENTLC OpenShift 4 Labs**.
 4. Select the **OpenShift 4 Service Mesh Lab** catalog item.
 5. On the right, click **Order**.
 6. In the order form, accept the defaults and click **Submit**.
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2. Review Confirmation Emails

Upon ordering the lab environment, you receive three emails. The third email has a subject line indicating that your provisioning request has completed.

1. Save this email.

- Whenever you see **GUID** or **\$GUID** in a command, make sure to replace it with your GUID.
3. Make note of the URL of the OpenShift API for command line **oc** client.
 - You need this when you use the **oc login** command to access the cluster.
 4. Make note of the URL of the OpenShift Master Console.
 - You use this when accessing the Red Hat® OpenShift® Container Platform (RHOCP) web console.
 - The OpenShift Master Console URL is unique for each student.
 - For the duration of the course, you navigate to this OpenShift Container Platform master node.

3. SSH access and *Bastion* node setup

If you have the Openshift **oc** CLI installed on your laptop, you can complete all of your main work using **oc** on your laptop. Make sure that your version of **oc** matches the OpenShift cluster version.

As an alternative, your lab environment includes a *bastion* node that you can ssh into. The *bastion* workstation contains the correct version of the **oc** client. You can complete all of your main work on the *bastion* workstation.

1. From the lab confirmation email, use the ssh command and ssh password provided to ssh into the *bastion* node of your lab environment.

Openshift Master Console: <http://console-openshift-console.apps.cluster-6235.6235.sandbox106.opentlc.com>
Openshift API for command line 'oc' client: <https://api.cluster-6235.6235.sandbox106.opentlc.com:6443>
Download oc client from <https://mirror.openshift.com/pub/openshift-v4/clients/ocp/4.1.8/openshift-install-linux-4.1.8.tar.gz>
This cluster has authentication enabled. You can use 'admin' with password 'r3dh4t1!' to access your cluster

SSH Access: ssh [\[redacted\]@bastion.6235.sandbox106.opentlc.com](https://bastion.6235.sandbox106.opentlc.com)
SSH password: kUrxbDMaPUoHe0Us

2. In the remote *bastion* node, validate the **GUID** environment variable for your username:

```
echo ${GUID}
```

Sample Output

```
c3po
```

3. Log in to OpenShift Container Platform as **system:admin**

```
oc login -u system:admin
```

NOTE If you use `oc` on your laptop, use user `admin` and password `r3dh4t1!`.

4. Test system:admin credentials

```
oc get nodes
```

ip-10-0-131-208.us-east-2.compute.internal	Ready	master	147m
v1.13.4+ab8449285			
ip-10-0-134-170.us-east-2.compute.internal	Ready	worker	139m
v1.13.4+ab8449285			
ip-10-0-155-207.us-east-2.compute.internal	Ready	worker	139m
v1.13.4+ab8449285			
ip-10-0-158-126.us-east-2.compute.internal	Ready	master	147m
v1.13.4+ab8449285			
ip-10-0-165-143.us-east-2.compute.internal	Ready	master	147m
v1.13.4+ab8449285			
ip-10-0-174-136.us-east-2.compute.internal	Ready	worker	139m
v1.13.4+ab8449285			

5. Switch between *system:admin* and *user1* OCP users:

Later in this course, you will be asked to execute OpenShift commands as user *user1*, which has no cluster admin privileges. At the command line of your remote *bastion* node, you can switch between the *system:admin* and *user1* users.

a. Execute the following to switch to *user1* OCP user:

```
oc login -u user1 -p r3dh4t1!
```

b. Switch back to *system:admin* user:

```
oc login -u system:admin
```

4. Access RHOCF Web Console

2. Authenticate using the following admin credentials:

- **Username:** **admin**
- **Password:** **r3dh4t1!**

This completes the initial lab environment setup.

Last updated 2020-02-26 17:17:48 EST