Red Hat OpenShift Installation Lab (DO322)

Duration: 2 Days

Prerequisites for this course:

- Achieving the Red Hat Certified Specialist in OpenShift Administration certification on OpenShift 4 is strongly recommended, or at least taking Red Hat OpenShift Administration II: Operating a Production Kubernetes Cluster (DO280) before taking this course.
  - "Equivalent knowledge of Kubernetes" is not applicable here because performing anything other than a very minimal, all-defaults Full Stack Automated installation of OpenShift on a cloud provider requires knowledge of OpenShift cluster operators.
- Achieving the Red Hat Certified System Administrator (RHCSA) certification or equivalent knowledge of Red Hat Enterprise Linux system administration before taking DO322 is also strongly recommended.

Hands-On Format: This hands-on class is approximately 80/20 lab to lecture ratio, combining engaging lecture, demos, group activities and discussions with comprehensive machine-based practical programming labs and project work.

1. Describing the OpenShift Installation Process **[Day 1]**
Introducing OpenShift Installation Methods
Running the OpenShift Installer
Guided Exercise: Completing the OpenShift Installation Prerequisites
Introducing Hosted OpenShift

2. Installing OpenShift on a Cloud Provider **[Day 1]**
Introducing OpenShift Full-stack Automation Installation on a Cloud Provider
Describing How to Install OpenShift on AWS Using Full-stack Automation
Demonstrating How to Install OpenShift on AWS Using Full-stack Automation
Verifying the Installation of OpenShift on AWS

3. Installing OpenShift on a Virtualized Environment **[Day 1]**
Introducing OpenShift Installation on Hypervisors
Describing the Installation of OpenShift on vSphere Using Full-stack Automation
Describing the Installation of OpenShift on vSphere using Pre-existing Infrastructure

4. Planning to Install OpenShift without an Infrastructure Provider **[Day 2]**
Introducing OpenShift Installation without an Infrastructure Provider
Configuring Network Services and Hosts for Installing OpenShift without an Infrastructure Provider
Guided Exercise: Configuring Network Services and Hosts for Installing OpenShift without an Infrastructure Provide

5. Installing OpenShift without an Infrastructure Provider **[Day 2]**
Performing the Installation of OpenShift without an Infrastructure Provider
Guided Exercise: Performing the Installation of OpenShift without an Infrastructure Provider

6. Completing the Installation of OpenShift without an Infrastructure Provider **[Day 2]**
Performing Day 1 and Day 2 Operations
Guided Exercise: Performing Day 1 and Day 2 Operations
Replacing a Control Plane Node
Guided Exercise: Replacing a Control Plane Node

7. Red Hat OpenShift Installation Lab Comprehensive Review **[Day 2]**
Comprehensive Review
Lab: Installing a Compact OpenShift Cluster