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.
  - o "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