

OpenShift Enterprise Administration (DO280)

Overview

Duration:3 Days

OpenShift Enterprise is a key technology in Red Hat's DevOps story. Using PaaS has proven to accelerate time to market for many organizations. This course provides the knowledge to take advantage of the platform in a popular DevOps environment.

In this course, students will learn how to install and configure an instance of OpenShift Enterprise, test the instance by deploying a real world application, and manage projects/applications through hands-on labs.

Objectives

- Container concepts
- Configuring resources with the command line interface
- Building a pod
- Enabling services for a pod
- Creating routes
- Downloading and configuring images
- Rolling back and activating deployments
- Creating custom S2I images
- Comprehensive review

Pre-requisite

- Red Hat Certified System Administrator (RHCSA) certification or equivalent experience is required. Red Hat Certified Engineer (RHCE) certification or equivalent experience is recommended.
- Complete Introduction to Containers, Kubernetes, and Red Hat OpenShift (DO180), or demonstrate equivalent experience with containers, Kubernetes, and OpenShift basics

Course Outline

- **Describe the Red Hat OpenShift Container Platform**
Learn the components of Red Hat OpenShift Container Platform and how they interact.

- **Verify a Cluster**
Verify a cluster is installed and healthy.
- **Configure Authentication**
Configure authentication with an identity provider.
- **Control Access to OpenShift Resources**
Define and apply role-based access controls and protect sensitive information with secrets.
- **Configure OpenShift Networking Components**
Identify the components of OpenShift software-defined networking and configure some of the components.
- **Control Pod Scheduling**
Control which nodes a pod runs on.
- **Scale an OpenShift Cluster**
Control the size of an OpenShift Cluster
- **Perform Cluster Updates**
Describe how to perform a cluster update.
- **Manage the Cluster with Web Console**
Manage the OpenShift cluster using the web console.
- **Comprehensive Review**
Verify, manage, and troubleshoot an OpenShift cluster for enterprise use.