



DO 280 Red Hat OpenShift Enterprise Administration

4 days of training

DESCRIPTION:

OpenShift is a containerized application platform that allows enterprises to manage container deployments and scale their applications using Kubernetes. OpenShift provides predefined application environments and builds upon Kubernetes to provide support for DevOps principles such as reduced time to market, infrastructure-as-code, continuous integration (CI), and continuous delivery (CD).

PREREQUISITES:

- Become a Red Hat Certified System Administrator, or demonstrate equivalent Red Hat Enterprise Linux system administration experience
- Complete Introduction to Containers, Kubernetes, and Red Hat OpenShift (DO180), or demonstrate equivalent experience with containers, Kubernetes, and OpenShift basics

COURSE OBJECTIVES:

You should be able to demonstrate these skills:

- Install OpenShift Container Platform to create a simple cluster.
- Configure and manage OpenShift masters and nodes.
- Secure OpenShift with a simple internal authentication mechanism.
- Control access to resources on OpenShift.
- Deploy applications on OpenShift using Source-to-Image (S2I).
- Configure and manage OpenShift pods, services, routes, secrets, and other resources.

COURSE OUTLINE:

Introduction to Red Hat OpenShift Container Platform

- List the features and describe the architecture of the OpenShift Container Platform.

Install OpenShift Container Platform

- Install OpenShift and configure the cluster.

Explore OpenShift networking concepts

- Describe and explore OpenShift networking concepts.

Execute commands

- Execute commands using the command-line interface.

Manage OpenShift resources

- Control access to OpenShift resources.

Allocate persistent storage

- Implement persistent storage.

Manage application deployments

- Manipulate resources to manage deployed applications.

Metrics subsystem

- Install and configure the metrics-gathering system.

Manage and monitor

- Manage and monitor OpenShift resources and software.