RH-DO280 Red Hat OpenShift Administration I

Course description

Create, configure, manage, and troubleshoot OpenShift clusters

Red Hat OpenShift Administration I (DO280) teaches you how to install and administer the Red Hat® OpenShift® Container Platform. This hands-on, lab-based course shows you how to install, configure, and manage OpenShift clusters and deploy sample applications to further understand how developers will use the platform.

This course is based on Red Hat® Enterprise Linux® 7.5 and Openshift Container Platform 3.9.

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).

Course summary

- Install an OpenShift Container Platform cluster
- Configure and manage masters and nodes
- Secure OpenShift
- Control access to resources on OpenShift
- Monitor and collect metrics on OpenShift
- Deploy applications on OpenShift Platform Container using Source-to-Image (S2I)
- Manage storage on OpenShift

Audience for this course

This course is designed for system administrators, system architects, and developers who want to install and configure Red Hat OpenShift Container Platform.

Prerequisites for this course

- 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

Outline for this course

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.