

[DO280]: Red Hat OpenShift Administration I

Length : 3 Days
Delivery Method : Instructor-led (Classroom)

Course Overview

Red Hat OpenShift Container Platform is a containerized application platform that allows enterprises to manage container deployments and scale their applications using Kubernetes. OpenShift Container Platform 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).

Through numerous hands-on exercises, the participants will create, configure, manage, and troubleshoot OpenShift clusters. Participants will also deploy sample applications to further understand development use cases. This creates an environment that supports DevOps principles such as reduced time to market and continuous delivery.

This course is based on Red Hat OpenShift Container Platform 3.5.

Audience Profile

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

At Course Completion

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

Pre-Requisites

- Be certified as a Red Hat Certified System Administrator, or equivalent Red Hat Enterprise Linux system administration experience
- Complete the Introduction to Containers, Kubernetes, and Red Hat OpenShift (DO180) course or have equivalent experience with containers, Kubernetes, and OpenShift basics

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Course Outline

Module 1: Introduction to Red Hat OpenShift Container Platform

Lessons

- Review features and architecture of OpenShift Container Platform

Module 2: Install OpenShift Container Platform

Lessons

- Install OpenShift Container Platform and configure a master and node

Module 3: Explore networking concepts

Lessons

- Describe and explore OpenShift networking concepts

Module 4: Execute commands

Lessons

- Execute commands using the command-line interface

Module 5: OpenShift Container Platform resources

Lessons

- Control access to OpenShift Container Platform resources

Module 6: Persistent storage

Lessons

- Provision persistent storage and use it for the internal registry

Module 7: Manage application deployments

Lessons

- Manipulate resources to manage deployed applications

Module 8: Metrics subsystem

Lessons

- Install and configure the metrics- gathering system

Module 9: Manage and monitor

Lessons

- Manage and monitor OpenShift Container Platform resources and software

Module 10: Comprehensive review

Lessons

- Install, configure, and deploy an application on a cluster

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