

RHDO280 Red Hat OpenShift Administration II: Operating a Production Kubernetes Cluster

Course Summary

Description

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. 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

At the end of this course, students will be able to:

- 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

Topics

- Introduction to Red Hat OpenShift Container Platform
- Install OpenShift Container Platform
- Explore OpenShift networking concepts
- Execute commands
- Manage OpenShift resources
- Allocate persistent storage
- Manage application deployments
- Metrics subsystem
- Manage and monitor

Audience

This course is designed for system administrators responsible for creating OpenShift Enterprise instances, deploying applications, creating process customizations, managing instances and projects.

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

Duration

Four days

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Course Outline

- I. *Introduction to Red Hat OpenShift Container Platform*
 - A. List the features and describe the architecture of the OpenShift Container Platform.
- II. *Install OpenShift Container Platform*
 - A. Install OpenShift and configure the cluster.
- III. *Explore OpenShift networking concepts*
 - A. Describe and explore OpenShift networking concepts.
- IV. *Execute commands*
 - A. Execute commands using the command-line interface.
- V. *Manage OpenShift resources*
 - A. Control access to OpenShift resources.
- VI. *Allocate persistent storage*
 - A. Implement persistent storage.
- VII. *Manage application deployments*
 - A. Manipulate resources to manage deployed applications.
- VIII. *Metrics subsystem*
 - A. Install and configure the metrics-gathering system.
- IX. *Manage and monitor*
 - A. Manage and monitor OpenShift resources and software.