



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

---

<b>Code:</b>	DO280
<b>Length:</b>	3 days
<b>URL:</b>	<a href="#">View Online</a>

---

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.

## Skills Gained

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).

- 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

## Who Can Benefit

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

## Course Details

### 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.