

# Red Hat OpenShift Administration II: Configuring a Production Cluster

**Duration:** 2 Days

**Prerequisites:**

- Red Hat OpenShift Administration I: Operating a Production Cluster (DO180v4.14), or equivalent skills deploying and managing Kubernetes applications using the OpenShift web console and command-line interfaces.
- Significant experience with Linux System Administration is not needed for this course. Basic skills operating a Bash shell, manipulating files and processes, and verifying system confirmations such as network addresses are necessary and sufficient. Students are encouraged to take Getting Started with Linux Fundamentals (RH104) before enrolling in DO280

**Course Description:**

Red Hat OpenShift Administration II: Configuring a Production Cluster (DO280) prepares OpenShift Cluster Administrators to perform daily administration tasks on clusters that host applications provided by internal teams and external vendors, enable self-service for cluster users with different roles, and deploy applications that require special permissions such as CI/CD tooling, performance monitoring, and security scanners. This course focuses on configuring multi-tenancy and security features of OpenShift as well as managing OpenShift add-ons based on operators.

The skills you learn in this course can be applied using all versions of OpenShift, including Red Hat OpenShift on AWS (ROSA), Azure Red Hat OpenShift, and OpenShift Container Platform.

This course is based on OpenShift Container Platform 4.14.

**Target Audience:**

- Platform Administrators, System Administrators, Cloud Administrators, and other infrastructure-related IT roles who are responsible for managing and maintaining infrastructure for applications
- Enterprise Architects, Site Reliability Engineers, DevOps Engineers, and other application-related IT roles who are responsible for designing infrastructure for applications

**Course Outlines:**

➤ **Declarative Resource Management**

Deploy and update applications from resource manifests that are parameterized for different target environments.

➤ **Deploy Packaged Applications**

Deploy and update applications from resource manifests that are packaged for sharing and distribution.

➤ **Authentication and Authorization**

Configure authentication with the HTTPasswd identity provider and assign roles to users and groups.

➤ **Network Security**

Protect network traffic between applications inside and outside the cluster.

➤ **Expose non-HTTP/SNI Applications**

Expose applications to external access without using an Ingress controller.

➤ **Enable Developer Self-Service**

Configure clusters for safe self-service by developers from multiple teams and disallow self-service if projects have to be provisioned by the operations staff.

➤ **Manage Kubernetes Operators**

Install and update Operators that are managed by the Operator Lifecycle Manager and by the Cluster Version Operator.

➤ **Application Security**

Run applications that require elevated or special privileges from the host Operating System or Kubernetes.

➤ **OpenShift Updates**

Update an OpenShift cluster and minimize disruption to deployed applications.

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