

DO281

Red Hat OpenShift Administration II: Configuring a Production Cluster with Exam

Course description

Configure and manage OpenShift clusters to maintain security and reliability across multiple applications and development teams.

Red Hat OpenShift Administration II: Operating a Production Kubernetes Cluster with exam (DO281) 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 Red Hat® OpenShift® 4.14. [The Red Hat Certified OpenShift Administrator exam \(EX280\)](#) is included in this offering.

Recommended training

- [Take our free assessment](#) to gauge whether this offering is the best fit for your skills.
- Prerequisite: [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.

Outline for this course

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 HTPasswd 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.