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

**Duration: 5 Days** **Course Code: DO281**

## Overview:

**Configure and manage OpenShift clusters to maintain security and reliability across multiple applications and development teams.**
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 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.
This course is intended to develop the skills needed to manage Red Hat OpenShift clusters and support containerized applications that are highly available, resilient, and scalable.
Red Hat OpenShift is an enterprise-hardened application platform based on Kubernetes that provides a common set of APIs and abstractions that enable application portability across cloud providers and traditional data centers. Red Hat OpenShift adds consistency and portability of operational processes across these environments and can also be deployed as a managed service.
A Red Hat SRE team shares the responsibility of managing Red Hat OpenShift clusters with a customer's IT operations team when using a managed OpenShift offering such as Red Hat OpenShift on AWS (ROSA) or Azure Red Hat OpenShift (ARO).
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 package (course + exam) is based on OpenShift Container Platform 4.18 and includes an exam voucher.
***Note:*** *Starting January 2026 this bundle (Course + Exam) only exists in CR (classroom) if scheduled or Closed course modalities.*
If you are targeting a virtual class, please consider DO280LS the new RHLS-course subscription which includes as well an exam voucher.
*Updated Jan2026*

## 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

## Objectives:

- After this course participants should be able to:
- Deploy packaged applications using manifests, templates, kustomize, and helm.
- Configure authentication and authorization for users and applications.
- Protect network traffic with network policies and exposing applications with proper network access.
- Deploy and manage applications using resources manifests.
- Enable developer self-service of application projects.
- Manage OpenShift cluster updates and Kubernetes operator updates.

## Prerequisites:

- Red Hat OpenShift Administration I: Operating a Production Cluster (DO180), 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

## Testing and Certification

- Red Hat Certified OpenShift Administrator exam (EX280) - exam voucher included

Fundamentals (RH104) before enrolling
Take Red Hat free assessment to gauge whether this offering is the best fit for your skills Red Hat Skills Assessment

## Follow-on-Courses:

- Red Hat OpenShift Administration III: Scaling Kubernetes Deployments in the Enterprise (DO380)

## Content:

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.

## Additional Information:

Official course book provided to participants

## Further Information:

For More information, or to book your course, please call us on Head Office 01189 123456 / Northern Office 0113 242 5931

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