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# Red Hat OpenShift Administration II: Configuring a Production Cluster

Duration: 4 Days Course Code: DO280 Version: 4.14

#### Overview:

based on operators.

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

As a result of attending this course, students will be able to perform the set of tasks that OpenShift cluster administrators are expected to perform in their daily jobs for on-premises, cloud-based, and vendor-managed clusters, including enabling add-on operators. Students will also be able manage multi-tenant permissions for different roles and configure applications that require privileged access to cluster and host resources.

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.

Following course completion, hands-on lab access will remain available for up to 45 days for any live course that includes a virtual environment. **Note:** This course is offered as a four day in classroom, a five day virtual class or self-paced. *Updated July2025* 

### **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 managing applications using resources manifests.
- Enable developer self-service of application projects.
- Manage OpenShift cluster updates and Kubernetes operator updates.

#### Prerequisites:

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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 Fundamentals (RH104) before

#### **Testing and Certification**

#### Follow-on-Courses:

- Red Hat OpenShift Administration III: Scaling Kubernetes Deployments in the Enterprise (DO380)
- Introduction to Red Hat OpenShift Service on AWS (CS120)
- Introduction to Microsoft Azure Red Hat OpenShift (DO121)
- DO380 Red Hat OpenShift Administration III: Scaling Deployments in the Enterprise
- DO322 Red Hat OpenShift Installation Lab
- DO326 Red Hat OpenShift Platform Migration Lab

#### Content:

Declarative Resource Management **Network Security** Manage Kubernetes Operators Deploy and update applications from resource Install and update Operators that are Protect network traffic between applications manifests that are parameterized for different inside and outside the cluster. managed by the Operator Lifecycle Manager and by the Cluster Version Operator. target environments. Expose non-HTTP/SNI Applications **Deploy Packaged Applications Application Security** Expose applications to external access Deploy and update applications from resource without using an Ingress controller. Run applications that require elevated or manifests that are packaged for sharing and special privileges from the host Operating distribution. System or Kubernetes. Enable Developer Self-Service Authentication and Authorization OpenShift Updates Configure clusters for safe self-service by developers from multiple teams and disallow Configure authentication with the HTPasswd self-service if projects have to be provisioned Update an OpenShift cluster and minimize identity provider and assign roles to users and by the operations staff. disruption to deployed applications. groups.

# Additional Information:

Official course book provided to participants.

## **Further Information:**

For More information, or to book your course, please call us on 00 971 4 446 4987

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