Red Hat OpenShift Developer II: Building and Deploying Cloud-native Applications

Duration: 4 Days   Course Code: DO288   Delivery Method: Company Event

Overview:

Design, build, and deploy containerized applications on Red Hat OpenShift

Red Hat OpenShift Developer II: Building and Deploying Cloud-native Applications (DO288) provides application developers with the essential skills to design, build, and deploy containerized applications, whether they are migrating existing applications to Red Hat OpenShift, or creating new cloud-native applications.

Whether you are migrating existing applications or writing container-native applications, you will learn how to boost developer productivity powered by Red Hat® OpenShift, a containerized application platform that allows enterprises to manage container deployments and scale their applications using Kubernetes.

As developers seek ways to improve application time to market for minimum viable products, containers and Red Hat OpenShift have quickly become the de facto solution for agile development and application deployment.

This course provides the gateway to organizational and digital transformation by demonstrating the potential of DevOps using a container-based architecture.

A container-based architecture, orchestrated with Kubernetes and Red Hat OpenShift, improves application reliability and scalability while decreasing developer overhead and facilitating continuous deployment.

Red Hat OpenShift provides the ability to consistently develop and deploy these applications in AWS using Red Hat OpenShift Service on AWS (ROSA), in Microsoft Azure using Azure Red Hat OpenShift, or as a self-managed Red Hat OpenShift Container Platform running in public cloud or customer datacenter environments.

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

This course is based on Red Hat OpenShift 4.18.

Note : *Starting January 1, 2026, Red Hat introduces RHLS-Course — a flexible subscription model now included with this catalog offering. This replaces the previous direct virtual class enrollment from Global Knowledge.*

When you purchase this item, you'll receive an RHLS subscription at the course level, giving you the freedom to choose the schedule that works best and self-enroll in your selected class.

Your RHLS subscription includes:
• One live, instructor-led virtual session
• 12 months of self-paced learning access
• One certification exam with a free retake
Onsite Classroom-based sessions and closed course options remain unchanged.
Updated Jan2026

Company Events

These events can be delivered exclusively for your company at our locations or yours, specifically for your delegates and your needs. The Company Events can be tailored or standard course deliveries.

Target Audience:

Software developersSoftware architects

Objectives:

■ After this course participants should be able to:

■ Handle features for developers in the Red Hat OpenShift web console

■ Build and publish container images for Red Hat OpenShift

■ Manage container deployments on Red Hat OpenShift

■ Create and deploy multi-container applications on Red Hat OpenShift

■ Deploy multi-container applications using Helm Charts and Kustomize

■ Create health checks to monitor and improve application reliability

■ Create CI/CD Workflows using Red Hat OpenShift Pipelines

Prerequisites:

Testing and Certification

- Complete Red Hat OpenShift Development I: Introduction to Containers with Podman (DO188), or have equivalent knowledge.
- RHCSA or higher is helpful for navigation and usage of the command line, but it is not required.

Take Red Hat free assessment to gauge whether this offering is the best fit for your skills Red Hat Skills Assessment

- DO188 - Red Hat OpenShift Development I: Introduction to Containers with Podman

- Red Hat Certified Specialist in OpenShift Application Development exam (EX288)

Follow-on-Courses:

- Developing and Deploying AI/ML Applications on Red Hat OpenShift AI (AI267)
- Building Resilient Microservices with Istio and Red Hat OpenShift Service Mesh (DO328)
- Red Hat Cloud-native Microservices Development with Quarkus (DO378)
- DO244R - Developing Applications with Red Hat OpenShift Serverless and Knative
- EX288 - Certified Specialist in OpenShift Application Development exam
- DO328 - Building Resilient Microservices with Istio and Red Hat OpenShift Service Mesh
- DO378 - Red Hat Cloud-native Microservices Development with Quarkus

Content:

Red Hat OpenShift Container Platform for Developers

Define the Red Hat OpenShift architecture, concepts, and terminology, and set up the developer environment.

Deploying Simple Applications

Deploy simple applications by using the Red Hat OpenShift web console and command-line tools.

Building and Publishing Container Images

Build, deploy, and manage the lifecycle of container images by using a container registry.

Managing Red Hat OpenShift Builds

Describe the Red Hat OpenShift build process and build container images.

Managing Red Hat OpenShift Deployments

Describe the different Red Hat OpenShift deployment strategies and how to monitor the health of applications.

Deploying Multi-container Applications

Deploy multi-container applications by using Red Hat OpenShift templates, Helm charts, and Kustomize.

Continuous Deployment by using Red Hat OpenShift Pipelines

Implement CI/CD workflows by using Red Hat OpenShift Pipelines.

Additional Information:

Official course book provided to participants

Further Information:

For More information, or to book your course, please call us on 0800/84.009

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