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

**Duration: 5 Days** **Course Code: DO289**

## 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 package ( course + exam) course is based on Red Hat OpenShift 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 DO288LS the new RHLS-course subscription which includes as well an exam voucher.

*Updated Jan2026*

## 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:

- 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

## Testing and Certification

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

## 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)

## 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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