

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

**Duration: 4 Days**    **Course Code: DO288**    **Version: 4.14**

### Overview:

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

Red Hat OpenShift Developer II: Building Kubernetes Applications (DO288), teaches you how to design, build, and deploy containerized software applications on a Red Hat OpenShift cluster. 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.

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 4.14.

Following course completion, you will receive a 45-day extended access to hands-on labs for any 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 July 2025

#### 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 developers Software architects

### Objectives:

- After this course participants should be able to:
- Understand features for developers in the Red Hat OpenShift web console.
- Build and publishing 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
- Creating CI/CD Workflows using Red Hat OpenShift Pipelines.

### Prerequisites:

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

### Testing and Certification

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### Follow-on-Courses:

- Building Resilient Microservices with Istio and Red Hat OpenShift Service Mesh (DO328)
- Red Hat Cloud-native Microservices Development with Quarkus (DO378)
- Developing Applications with Red Hat OpenShift Serverless and Knative (DO244)
- Introduction to Red Hat OpenShift Service on AWS (CS120)
- Introduction to Microsoft Azure Red Hat OpenShift (DO121)
- DO244R - Developing Applications with Red Hat OpenShift Serverless and Knative
- EX288 - Red Hat 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

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### Content:

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| Red Hat OpenShift Container Platform for Developers                                                        | Build, deploy and manage the lifecycle of container images by using a container registry.                     | Deploying Multi-container Applications                                                                |
| Define the Red Hat OpenShift architecture, concepts and terminology, and set up the developer environment. | Managing Red Hat OpenShift Builds                                                                             | Deploy multi-container applications by using Red Hat OpenShift templates, Helm charts, and Kustomize. |
| Deploying Simple Applications                                                                              | Describe the Red Hat OpenShift build process and build container images.                                      | Continuous Deployment by Using Red Hat OpenShift Pipelines                                            |
| Deploy simple applications by using the Red Hat OpenShift web console and command-line tools.              | Managing Red Hat OpenShift Deployments                                                                        | ■ Implement CI/CD workflows by using Red Hat OpenShift Pipelines.                                     |
| Building and Publishing Container Images                                                                   | Describe the different Red Hat OpenShift deployment strategies and how to monitor the health of applications. |                                                                                                       |

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### Additional Information:

Official course book provided to participants.

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### Further Information:

For More information, or to book your course, please call us on Head Office Tel.: +974 40316639

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