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

Duration: 90 Days   Course Code: DO288   Version: 4.14   Delivery Method: E-learning

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

e-Learning

Interactive self-paced content that provides flexibility in terms of pace, place and time to suit individuals and organisations. These resources also consist of online books, educational podcasts and vodcasts, and video-based learning.

Target Audience:

Software developersSoftware 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

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 00 966 92000 9278

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