

DO288

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

Course description

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

Red Hat OpenShift Developer II: Building and Deploying Cloud-native Applications (DO288) teaches you how to design, build, and deploy containerized software applications on an 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 Container Platform, 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.

Recommended for this course

- 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.

Outline for this course

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 using Red Hat OpenShift Pipelines

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