Red Hat OpenShift Development II: Containerizing Applications (DO 288)

COURSE OVERVIEW

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

Red Hat OpenShift Development II: Containerizing 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.

This course is based on Red Hat OpenShift Container Platform 4.6.

WHO WILL BENEFIT FROM THIS COURSE?

- Enterprise application developers
- DevOps site reliability engineers

PREREQUISITES

- Complete Red Hat OpenShift I: Containers & Kubernetes (DO180), or have equivalent knowledge
- Being a Red Hat Certified System Administrator or having earned a higher certification is helpful for navigation and usage of the command line, but is not required

COURSE OBJECTIVES

You will learn about the fundamental concepts behind containerizing, scaling, deploying, and managing applications in Red Hat OpenShift Container Platform. You will acquire these skills:

- Design container images to containerize applications.
- Customize application builds and use Source-to-Image builds.
- Deploy multi-container applications.
- Implement health checks to improve system reliability.

COURSE OUTLINE

Deploy and manage applications on an OpenShift cluster

- Deploy applications using various application packaging methods to an OpenShift cluster and manage their resources.

Design containerized applications for OpenShift

- Select a containerization method for an application and create a container to run on an OpenShift cluster.

Publish enterprise container images
- Create an enterprise registry and publish container images to it.

Manage builds on OpenShift
- Describe the OpenShift build process, in addition to triggering and managing builds.

Customize source-to-image builds
- Customize an existing S2I base image and create a new one.

Deploy multi-container applications
- Deploy multi-container applications using Helm charts and Kustomize.

Manage application deployments
- Monitor application health and implement various deployment methods for cloud-native applications.

Build applications for OpenShift
- Create, deploy, and integrate third-party applications on OpenShift.

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