Containers, Kubernetes, and Red Hat OpenShift Development II with exam (DO296) Course Outline

Introduction to container technology

Describe how software can run in containers orchestrated by Red Hat OpenShift Container Platform.

Create containerized services

Provision a server using container technology.

Manage containers

Manipulate prebuilt container images to create and manage containerized services.

Manage container images

Manage the life cycle of a container image from creation to deletion.

Create custom container images

Design and code a Dockerfile to build a custom container image.

Deploy containerized applications on OpenShift

Deploy single container applications on OpenShift Container Platform.

Troubleshoot containerized applications

Troubleshoot a containerized application deployed on OpenShift.

Deploy and manage applications on an OpenShift cluster

Use various application packaging methods to deploy applications to an OpenShift cluster, then 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.

Build applications

Describe the OpenShift build process, then trigger and manage builds.

Customize source-to-image (S2I) builds

Customize an existing S2I base image and create a new one.

Create applications from OpenShift templates

Describe the elements of a template and create a multicontainer application template.

Manage application deployments

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

Perform comprehensive review

Create and deploy cloudinative applications on OpenShift.