

Introduction to Containers, Kubernetes, and Red Hat OpenShift (DO 180)

COURSE OVERVIEW

Introduction to building and managing containers for deployment on a Kubernetes and OpenShift 4 cluster

Red Hat OpenShift I: Containers & Kubernetes (DO180) introduces students to building and managing containers for deployment on a Kubernetes cluster. This course helps students build core knowledge and skills in managing containers through hands-on experience with containers, Kubernetes, and the Red Hat OpenShift Container Platform needed for multiple roles, including developers, administrators, and site reliability engineers.

This course is based on Red Hat® Enterprise Linux® 8.2 and OpenShift® Container Platform 4.6.

WHO WILL BENEFIT FROM THIS COURSE?

- Developers who want to containerize software applications.
- Administrators who are new to container technology and container orchestration.
- Architects who are looking to use container technologies in software architectures.
- Site Reliability Engineers who want to support their technology infrastructure using Kubernetes and OpenShift

PREREQUISITES

- Take our free assessment to gauge whether this offering is the best fit for your skills.
- Experience in the use of a Linux terminal session, issuing operating system commands, and familiarity with shell scripting. A Red Hat Certified System Administrator (RHCSA) certification is recommended but not required.
- Some experience with web application architectures and their corresponding technologies.

COURSE OBJECTIVES

As a result of attending this course, students should gain the skills needed to perform basic tasks in Red Hat OpenShift Container Platform (OCP). This includes the ability to:

- Create containerized services using Podman.
- Manage containers and container images.
- Create custom container images.
- Deploy containerized applications on OpenShift.
- Deploy multi-container applications.





COURSE OUTLINE

Introducing container technology

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

Creating containerized services

Provision a service using container technology.

Managing containers

Modify pre-build container images to create and manage containerized services.

Managing container images

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

Creating custom container images

Design and code a Container file to build a custom container image.

Deploying containerized applications on OpenShift

Deploy single container applications on OpenShift Container Platform.

Deploying multi-container applications

• Deploy applications that are containerized using multiple container images.

Troubleshooting containerized applications

Troubleshoot a containerized application deployed on OpenShift.

Comprehensive review of introduction to container, Kubernetes, and Red Hat OpenShift

 Demonstrate how to containerize a software application, test it with Podman, and deploy it on an OpenShift cluster.

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