

DO188

Red Hat OpenShift Development I: Introduction to Containers with Podman

Course Description

A developer introduction to building and managing containers with Podman for deploying applications on Red Hat OpenShift.

Red Hat OpenShift Development I: Introduction to Containers with Podman (DO188) introduces students to building, running, and managing containers with Podman and Red Hat OpenShift. This course helps students build the core skills for developing containerized applications through hands-on experience. These skills can be applied using all versions of OpenShift, including Red Hat OpenShift on AWS (ROSA), Azure Red Hat OpenShift (ARO), and OpenShift Container Platform.

This course is based on Red Hat® Enterprise Linux® 9, Podman 5 and Red Hat OpenShift® 4.18.

Course Outline

Outline for this course

Introduction and overview of containers

Describe how containers facilitate application development.

Podman basics

Manage and run containers with Podman.

Container images

Navigate container registries to find and manage container images.

Custom container images

Build custom container images to containerize applications.

Persisting data

Run database containers with persistence.

Troubleshooting containers

Analyze container logs and configure a remote debugger.

Multi-container applications with compose

Run multi-container applications using Compose.

Container orchestration with Kubernetes and OpenShift

Orchestrate containerized applications with Kubernetes and OpenShift.