Red Hat OpenShift Development I: Introduction to Containers with Podman (DO188) Training

Duration: **3 Day**

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Overview

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.

Prerequisites

- Take our free assessment to gauge whether this offering is the best fit for your skills
- Some experience with web application architectures and their corresponding technologies
- Experience in the use of a Linux terminal session, issuing operating system commands, and familiarity with shell scripting is recommended

Who Should Attend

- Developers and Site Reliability Engineers that are new to container technology

What You Will Learn

- Introduction to containers
- Run containers with Podman CLI and Podman Desktop
- Build custom container images
- Manage container images
- Remote debugging with containers
- Basic container networking
- Persist data with containers
- Run multi-container applications
- Troubleshoot Container Deployments
- Orchestrate containers with OpenShift and Kubernetes

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Outline

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.