Red Hat OpenShift Development I: Introduction to Containers with Podman

Duration: 3 Days **Course Code: DO188** **Version: 4.14**

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.
As a result of attending this course, you will understand the foundations of container-based application development. You will be able to run, manage, and troubleshoot containerized applications. This course is the starting point for the OpenShift developer curriculum and provides the foundation you will need to advance to cloud-native developer courses.
This course is based on Red Hat® Enterprise Linux® 9, Podman 5 and Red Hat OpenShift® 4.18.
Following course completion, hands-on lab access will remain available for up to 45 days for any live course that includes a virtual environment.
Note: This course is offered as a three day in classroom, a four day virtual class or self-paced.
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Target Audience:

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

Objectives:

- After this course participants should be able to:
- Understand containers
- Run containers with Podman CLI and Podman Desktop
- Build custom container images
- Manage container images
- Remote debugging with containers
- Understand Basic container networking
- Persist data with containers
- Run multi-container applications
- Troubleshoot Container Deployments
- Orchestrate containers with OpenShift and Kubernetes

Prerequisites:

- Some experience with web application architectures and their corresponding technologies is expected
- Experience in the use of a Linux terminal session, issuing operating system commands, and familiarity with shell scripting is recommended

Testing and Certification

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Follow-on-Courses:

- Red Hat OpenShift Development II: Containerizing Applications (DO288)
- Introduction to Red Hat OpenShift Service on AWS (CS120)
- Introduction to Microsoft Azure Red Hat OpenShift (DO121)
- DO288 - Red Hat OpenShift Developer II: Building and Deploying Cloud-native Applications

Content:

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.

Additional Information:

Official course book provided to participants.

Further Information:

For More information, or to book your course, please call us on Head Office Tel.: +974 40316639

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