RED HAT OPENSHIFT DEVELOPMENT I: INTRODUCTION TO CONTAINERS WITH PODMAN (DO188)

Course Code: 821720

DO188 - 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.

What You'll Learn

After completing this course, learners 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

Who Needs to Attend

This course is intended for Developers and Site Reliability Engineers that are new to container technology.

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

Confirmation of the correct skill set knowledge can be obtained by passing the online skills assessment at Red Hat Skills Assessment

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VIRTUAL CLASSROOM LIVE	$3,525 USD	4 Day

Virtual Classroom Live Outline

1. **Introduction and overview of containers**
   - Describe how containers facilitate application development.
2. **Podman basics**
   - Manage and run containers with Podman.
3. **Container images**
   - Navigate container registries to find and manage container images.
4. **Custom container images**
   - Build custom container images to containerize applications.
5. **Persisting data**
   - Run database containers with persistence.
6. **Troubleshooting containers**
   - Analyze container logs and configure a remote debugger.
7. **Multi-container applications with compose**
   - Run multi-container applications using Compose.
8. **Container orchestration with Kubernetes and OpenShift**
   - Orchestrate containerized applications with Kubernetes and OpenShift.

Virtual Classroom Live Labs

- Labs are provided by RedHat for this course

Sep 15 - 18, 2025 | 11:00 AM - 5:00 PM EDT

Nov 3 - 6, 2025 | 11:00 AM - 5:00 PM EST

Dec 15 - 18, 2025 | 11:00 AM - 5:00 PM EST

Feb 2 - 5, 2026 | 11:00 AM - 5:00 PM EST

Mar 16 - 19, 2026 | 11:00 AM - 5:00 PM EDT

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ON-DEMAND	$2,996 USD

On-Demand Outline

1. **Introduction and overview of containers**
   - Describe how containers facilitate application development.
2. **Podman basics**
   - Manage and run containers with Podman.
3. **Container images**
   - Navigate container registries to find and manage container images.
4. **Custom container images**
   - Build custom container images to containerize applications.
5. **Persisting data**
   - Run database containers with persistence.
6. **Troubleshooting containers**
   - Analyze container logs and configure a remote debugger.
7. **Multi-container applications with compose**
   - Run multi-container applications using Compose.
8. **Container orchestration with Kubernetes and OpenShift**
   - Orchestrate containerized applications with Kubernetes and OpenShift.

On-Demand Labs

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