

## 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.

*Updated July2025*

### Virtual Learning

This interactive training can be taken from any location, your office or home and is delivered by a trainer. This training does not have any delegates in the class with the instructor, since all delegates are virtually connected. Virtual delegates do not travel to this course, Global Knowledge will send you all the information needed before the start of the course and you can test the logins.

### Target Audience:

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

### Objectives:

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

### 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

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### Content:

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

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### Additional Information:

Official course book provided to participants.

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### Further Information:

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

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