



RED HAT TRAINING

Red Hat Containers Podman Training Course

Master Red Hat Podman for container management. Learn to build, run, and manage Linux containers efficiently without a daemon.

DURATION

2 hours

LEVEL

Intermediate

FORMAT

Instructor-Led

-
- Globally Recognized Certification
 - Expert-Led Hands-On Training
 - Flexible Scheduling

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COURSE OVERVIEW

This Red Hat Containers Podman Training Course offers an intensive, hands-on dive into container technology using Podman, an open-source, daemonless container engine developed by Red Hat. Designed for IT professionals with intermediate Linux experience, this course will equip you with the essential skills to build, run, and manage containers efficiently and securely without the overhead of a daemon. You'll master core container concepts, understand the differences and advantages of Podman over traditional container runtimes, and learn how to integrate Podman into your daily development and operations workflows.

The curriculum focuses on practical application, covering everything from fundamental Podman commands and image management to persistent storage, networking, and security best practices. Participants will gain proficiency in creating custom container images, managing container lifecycles, and orchestrating single-host container deployments. This expertise is crucial for modernizing applications, streamlining development pipelines, and deploying robust services in cloud-native environments. By completing this course, you'll be well-prepared to leverage containerization for improved portability, scalability, and resource utilization in your projects and infrastructure.

Professionally, mastering Podman is a significant advantage in today's container-driven IT landscape. It empowers you to implement secure, rootless container deployments, making you a valuable asset for organizations adopting Red Hat OpenShift and other container platforms. This training enhances your ability to work with containerized applications, debug issues, and contribute effectively to DevOps and SRE teams, ultimately accelerating your career growth in cloud and infrastructure roles.

Duration	2 hours
Level	Intermediate
Vendor	Red Hat

COURSE CURRICULUM

01 Module 1: Introduction to Containers and Podman

- Understanding Containerization Concepts
- Introduction to Podman and its Architecture (daemonless)
- Key Differences: Podman vs. Docker
- Installing and Configuring Podman on Red Hat Enterprise Linux
- First Steps with Podman: Running Simple Containers

02 Module 2: Podman Image Management

- Pulling and Managing Container Images from Registries
- Building Custom Container Images with Containerfiles
- Understanding Image Layers and Best Practices
- Tagging, Pushing, and Sharing Images
- Inspecting Image Metadata

03 Module 3: Managing Containers and Pods

- Running, Stopping, and Restarting Containers
- Attaching to Container Processes
- Inspecting Container Details and Logs
- Managing Container Lifecycles

- Introduction to Pods for Multi-Container Applications
- Managing Pods with Podman

04 Module 4: Container Storage and Networking

- Understanding Container Storage Options
- Mounting Host Volumes into Containers
- Using Persistent Storage with Podman
- Configuring Container Networking
- Exposing Ports and Port Mapping
- Connecting Containers within a Pod

05 Module 5: Advanced Podman Features and Security

- Running Rootless Containers for Enhanced Security
- Resource Limits and Container Controls
- Generating systemd Units for Container Management
- Integrating with Buildah for Image Building
- Introduction to Podman Compose (Podman Play Kube)

CAREER PATHWAYS

Graduates of this program are prepared for the following roles:

- > **DevOps Engineer specializing in container orchestration and deployment**
- > **Linux Systems Administrator focusing on containerized application management**
- > **Cloud Engineer implementing secure, daemonless container solutions**

FREQUENTLY ASKED QUESTIONS

Q: What specific skills will I gain that are directly applicable to a DevOps role after completing this Red Hat Podman course?

Upon completion, you will be proficient in automating container image builds with Containerfiles, managing multi-container applications using Podman pods, and orchestrating single-host container deployments. You'll also learn to generate systemd units for robust container lifecycle management, directly supporting CI/CD pipelines and infrastructure as code practices critical for a DevOps engineer.

Q: Are there any prerequisites for this Podman training, particularly regarding existing Red Hat or Linux experience?

Yes, an intermediate understanding of the Linux command line and basic system administration concepts is highly recommended. While specific Red Hat certification is not required, familiarity with a Red Hat Enterprise Linux environment will be beneficial as Podman is deeply integrated with the RHEL ecosystem.

Q: How does learning Podman through this course benefit me if my organization uses Red Hat OpenShift or other Kubernetes platforms?

This course provides a foundational understanding of containerization and image management using Podman, which directly translates to OpenShift and Kubernetes. Podman's daemonless architecture and compatibility with OCI standards

make it an excellent local development tool for building and testing container images before deploying them to larger orchestration platforms like OpenShift, streamlining your workflow and ensuring consistency.

ABOUT COMPUTER PRIDE



East Africa's Premier IT Training Center

With over 15 years of excellence, Computer Pride delivers globally recognized certification programs from leading technology vendors. Located on Kenyatta Avenue in Nairobi's CBD, our state-of-the-art facilities and expert instructors have empowered thousands of professionals across East Africa.

15+

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READY TO ENROL?

Take the next step in your technology career.

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