



RED HAT TRAINING

Do189 Red Hat OpenShift Containers Podman Exam

Master Red Hat OpenShift and Podman for container deployment. Ace the Do189 exam to build and manage robust containerized applications.

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 intermediate-level course and associated Red Hat Certified Specialist in Containers exam (EX189) is meticulously designed for IT professionals seeking to master the fundamentals of containerization using Red Hat technologies, primarily Podman. It provides comprehensive training on creating, managing, and troubleshooting containerized applications without relying on a daemon, offering a daemonless alternative to Docker. Participants will gain practical expertise in building custom container images using Dockerfiles and Buildah, managing container lifecycles, and orchestrating multi-container applications using Podman pods. By focusing on essential container tools, this course lays a strong foundation for deploying applications efficiently in modern cloud-native environments and prepares you for the Red Hat OpenShift ecosystem.

Successfully passing the Do189 exam validates your proficiency in containerizing applications, a critical skill for today's dynamic IT landscape. This certification empowers you to streamline development workflows, enhance operational efficiency, and contribute effectively to DevOps practices. It's an invaluable credential for anyone involved in application deployment, system administration, or cloud infrastructure, providing a clear pathway to advanced Red Hat certifications and demonstrating your ability to leverage cutting-edge container technology to build scalable and resilient solutions.

Duration	2 hours
Level	Intermediate
Vendor	Red Hat

COURSE CURRICULUM

01 Module 1: Introduction to Containerization and Podman

- Understanding containerization vs. virtual machines
- Introduction to Podman architecture and daemonless approach
- Installing and configuring Podman
- Basic Podman commands: run, pull, images, ps, rm

02 Module 2: Managing Container Images with Podman and Skopeo

- Exploring container image layers and registries
- Searching for and pulling images from container registries
- Tagging, pushing, and pulling images to/from private registries
- Inspecting image metadata and cleaning up unused images
- Using Skopeo for image inspection and copying between registries

03 Module 3: Building Custom Container Images with Buildah

- Introduction to Dockerfiles and best practices
- Building images using Dockerfiles with Podman build
- Advanced Dockerfile instructions: ENTRYPOINT, CMD, VOLUME, ENV
- Introduction to Buildah for scriptable, unprivileged image building
- Optimizing image layers and performing multi-stage builds

04 Module 4: Running and Managing Containers Effectively

- Container lifecycle management: start, stop, restart, pause
- Exposing services and port mapping for container access
- Mounting host volumes for persistent data storage
- Configuring container networking and connecting containers

- Executing commands inside containers and basic troubleshooting

05 Module 5: Pods and Multi-Container Applications

- Understanding Pods in the context of Podman
- Creating and managing multi-container Pods
- Networking and communication within a Pod
- Deploying and managing simple multi-container applications using Pods
- Exporting and importing Pod definitions

06 Module 6: Advanced Topics and Exam Preparation

- Container security best practices: rootless containers and namespaces
- Monitoring container resources and logs
- Troubleshooting common container and image issues
- Connecting Podman with systemd for persistent services
- Review of key exam objectives and hands-on practice scenarios

CAREER PATHWAYS

Graduates of this program are prepared for the following roles:

- > **Container Platform Engineer**
- > **DevOps Engineer (Containerization Specialist)**
- > **Cloud-Native Application Developer**

FREQUENTLY ASKED QUESTIONS

Q: What hands-on skills will I gain by completing the Do189 Red Hat Openshift Containers Podman Exam?

This certification will equip you with the practical ability to create, run, and manage Linux containers using Podman, Buildah, and Skopeo. You will master building custom container images with Dockerfiles and Buildah, managing their lifecycle, configuring persistent storage and networking, and orchestrating multi-container applications with Podman pods. These skills are fundamental for developing and deploying cloud-native applications efficiently.

Q: Is prior experience with containerization or Red Hat OpenShift required before attempting this Do189 exam?

While not strictly required, a basic understanding of Linux command-line operations is highly recommended. This course is designed to introduce containerization concepts from the ground up using Podman, so prior extensive experience with Docker or OpenShift is not a prerequisite. However, individuals with some exposure to these technologies may find certain concepts more intuitive.

Q: How does the Do189 certification enhance my career prospects specifically within a Red Hat OpenShift environment?

The Do189 certification, while focused on Podman, serves as a crucial foundational step for working with Red Hat OpenShift. OpenShift leverages many of the containerization principles and image management techniques covered in this exam. By mastering Podman, you gain a deep understanding of how containers are built and managed at a lower level, which directly translates to more effective troubleshooting, development, and deployment within an OpenShift

cluster, making you a more valuable asset in an OpenShift-centric role.

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+

Years of Excellence

10,000+

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READY TO ENROL?

Take the next step in your technology career.

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