



RED HAT TRAINING

# Containers Red Hat Technical Overview Course

*Gain a technical overview of Red Hat container technologies. Learn to efficiently deploy and manage applications in container environments.*

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DURATION

**2 hours**

LEVEL

**Intermediate**

FORMAT

**Instructor-Led**

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

Computer Pride | 1st Floor, ICEA Building, Kenyatta Avenue, Nairobi | [www.computer-pride.co.ke](http://www.computer-pride.co.ke)

## COURSE OVERVIEW

Dive into the world of modern application deployment with the Red Hat Containers Technical Overview course. This engaging 2-hour session provides a foundational understanding of Linux container technology, a cornerstone of today's agile development and DevOps practices. You'll explore the 'why' and 'what' of containers, contrasting them with traditional virtual machines and discovering their profound benefits in terms of portability, efficiency, and scalability for applications across various environments.

This course specifically highlights Red Hat's robust ecosystem for container management and development. You will be introduced to essential tools such as Podman, Buildah, and Skopeo, understanding their individual roles in running, building, and managing container images without the need for a central daemon. Furthermore, the overview will touch upon the broader context of container orchestration, providing a high-level introduction to Kubernetes and Red Hat OpenShift Container Platform, showcasing how these technologies bring enterprise-grade stability and management to your containerized applications.

By completing this technical overview, you'll gain clarity on key container concepts, prepare yourself for more advanced Red Hat container certifications, and acquire the fundamental knowledge necessary to begin leveraging containerization for more efficient development workflows, improved resource utilization, and streamlined application delivery within your organization.

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|-----------------|--------------|
| <b>Duration</b> | 2 hours      |
| <b>Level</b>    | Intermediate |
| <b>Vendor</b>   | Red Hat      |

## COURSE CURRICULUM

### 01 Module 1: Introduction to Container Technology

- What are Linux containers and their core benefits?
- Containers vs. Virtual Machines: understanding the differences
- The concept of container images, layers, and registries
- Key components of the container ecosystem

### 02 Module 2: Red Hat's Container Toolkit

- Overview of Podman: daemonless container management
- Using Buildah: crafting custom container images
- Introduction to Skopeo: inspecting and moving container images
- Practical command-line examples for Podman, Buildah, and Skopeo

### 03 Module 3: Container Orchestration & Enterprise Context

- The need for container orchestration in production environments
- High-level introduction to Kubernetes
- Overview of Red Hat OpenShift Container Platform: Kubernetes for the Enterprise
- Brief discussion on container security considerations and best practices

## CAREER PATHWAYS

Graduates of this program are prepared for the following roles:

- > **Entry-Level DevOps Engineer**
- > **Cloud Operations Specialist (with container focus)**
- > **Linux System Administrator (Containerized Environments)**

## FREQUENTLY ASKED QUESTIONS

**Q: Is prior experience with Linux or container technologies required to benefit from the Red Hat Containers Technical Overview course?**

No, this course is designed as an introductory overview. While a basic understanding of IT concepts is helpful, it assumes no prior in-depth knowledge of Linux command-line or container orchestration. It serves as an excellent starting point for anyone looking to understand the fundamentals of containerization and Red Hat's related tools.

**Q: What advanced Red Hat certifications or courses does this technical overview prepare me for?**

This Containers Red Hat Technical Overview course provides a foundational understanding that directly benefits learners planning to pursue more in-depth Red Hat certifications. It's an ideal precursor for courses like Red Hat OpenShift Development I: Containerizing Applications (DO288), Red Hat OpenShift Administration I: Containerizing Applications (DO280), or the Red Hat Certified Specialist in Containers and Kubernetes certification track.

**Q: How will this 2-hour technical overview practically enhance my current role or future career prospects in IT?**

This concise overview equips you with a clear conceptual understanding of containerization and familiarity with key Red Hat tools like Podman, Buildah, and Skopeo. This knowledge is crucial for communicating effectively in containerized environments, making informed decisions about technology adoption, and taking the first step towards roles in DevOps, cloud engineering, or system administration where container proficiency is highly valued.

## 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+**

Professionals Trained

**50+**

Vendor Certifications

## READY TO ENROL?

Take the next step in your technology career.

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