# New Features in Red Hat Enterprise Linux (RH304) Training

Duration: **2 Day**

BİLGİNÇ IT Academy
info@bilginc.com
bilginc.com

## Overview

**Explore the new capabilities and changes introduced with Red Hat Enterprise Linux 10 and prepare for RHEL 10 deployment and operations.**

New Features in Red Hat Enterprise Linux (RH304) is designed to help IT professionals with experience in Red Hat Enterprise Linux 9 and earlier releases become familiar with the important changes, enhancements, and new capabilities introduced in **Red Hat Enterprise Linux 10**.

The course highlights key differences from previous RHEL versions so that participants can make effective use of the capabilities available in RHEL 10. Topics include performance improvements, security enhancements, user interface changes, and new approaches to installing and managing RHEL systems.

Participants learn different methods for installing RHEL 10, explore AI-assisted guidance with**Red Hat Enterprise Linux Lightspeed**, manage desktop applications through Flatpak, and work with updated container management tools. The course also introduces the creation, installation, use, and upgrading of containers and servers that rely on image-based installation management.

### Benefits for Organizations

RH304 helps organizations keep their technical teams current with the capabilities introduced in**Red Hat Enterprise Linux 10**.

By developing knowledge of the latest RHEL features and management approaches, teams can better prepare for RHEL 10 adoption, deployment, and ongoing operations.

### Benefits for Participants

The course enables IT professionals familiar with previous RHEL releases to update their skills around the latest capabilities available in RHEL 10.

After completing the course, participants should be able to:

- Describe important changes and new capabilities in RHEL 10.
- Use RHEL 10 installation methods.
- Perform installations with Kickstart.
- Take advantage of AI-assisted guidance through RHEL Lightspeed.
- Manage desktop applications with Flatpak.
- Work with containers using Podman and updated container management tools.
- Perform fundamental management tasks with image-based RHEL systems.

### Recommended Next Course

Participants who want to continue developing their automation skills after RH304 may consider:

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**Red Hat Enterprise Linux Automation with Ansible (RH294)**

## Prerequisites

Participants are recommended to have completed the following courses or possess equivalent practical experience:

- **Red Hat System Administration I (RH124) – Version 9.3** or equivalent knowledge and experience,
- **Red Hat System Administration II (RH134) – Version 9.3** or equivalent knowledge and experience.

Participants are also encouraged to complete Red Hat's free skills assessment to determine whether the course is appropriate for their current skill level.

## Who Should Attend

RH304 is intended for IT professionals who already have experience managing Red Hat Enterprise Linux 9 or earlier releases and need to prepare for RHEL 10 deployment and operations.

The course is particularly relevant for:

- System administrators,
- Platform engineers,
- Developers,
- Other IT professionals responsible for Red Hat Enterprise Linux environments.

## What You Will Learn

During RH304, participants will:

- Identify important improvements and feature changes introduced in Red Hat Enterprise Linux 10.
- Install RHEL 10 in package mode, either interactively or through Kickstart.
- Use Red Hat Enterprise Linux Lightspeed to access AI-driven guidance and suggestions for more efficient RHEL server management.
- Install, update, and use desktop applications from the Red Hat Ecosystem Catalog with Flatpak.
- Manage containers and container images with updated container management tools.
- Create, use, install, and upgrade containers and servers that use image-based installation management.

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## Outline

### 1. Overview of Red Hat Enterprise Linux 10

Explore selected improvements and feature changes introduced with Red Hat Enterprise Linux 10. Understand some of the key areas in which the new release differs from previous RHEL versions.

### 2. Installing Red Hat Enterprise Linux

Learn how to install Red Hat Enterprise Linux in package mode. Perform an interactive installation or use Kickstart for automated and repeatable installation processes.

### 3. AI-assisted Help with Red Hat Enterprise Linux Lightspeed

Use Red Hat Enterprise Linux Lightspeed to access AI-driven guidance and suggestions for RHEL server administration. Explore how these capabilities can support more efficient system management.

### 4. Installing and Updating Applications with Flatpak

Use Flatpak to install, upgrade, and work with desktop software provided through the Red Hat Ecosystem Catalog.

### 5. Managing Containers with Podman

Manage containers and container images using the latest container management tools. Become familiar with the updated approach to container management available in RHEL 10.

### 6. Working with Image-based Red Hat Enterprise Linux

Learn how to work with Red Hat Enterprise Linux environments that use image-based installation management. Create, use, install, and upgrade containers and servers that follow this management approach.