

Managing CentOS Migrations and RHEL Upgrades

Course Duration: 16 Hours

Course Code: RHCEM

1. Course Overview

The *Managing CentOS Migrations and RHEL Upgrades* course provides IT professionals with the knowledge and skills required to migrate workloads from CentOS Linux to Red Hat Enterprise Linux (RHEL). It also covers best practices for performing RHEL in-place upgrades to newer releases. Through hands-on labs and guided exercises, learners will gain practical experience in minimizing downtime, preserving application compatibility, and ensuring a smooth transition to a stable and supported enterprise Linux environment.

2. What You'll Learn?

- Understand the lifecycle differences between CentOS and RHEL.
- Plan and execute migrations from CentOS Linux to Red Hat Enterprise Linux.
- Perform in-place upgrades of RHEL across supported versions.
- Use Red Hat tools and utilities for migration and upgrade management.
- Validate application and service compatibility post-migration.
- Troubleshoot common issues during migration and upgrade processes.

3. Target Audience

This course is designed for:

- Linux system administrators managing CentOS or RHEL environments.
- IT infrastructure teams planning OS migrations and upgrades.
- DevOps engineers ensuring compatibility for containerized and non-containerized workloads.
- System architects responsible for long-term platform planning.

4. Pre-Requisites

- Basic knowledge of Linux system administration.
- Familiarity with CentOS and RHEL environments.
- Completion of **Red Hat System Administration I (RH124)** and **Red Hat System Administration II (RH134)** (recommended).

5. Course Content

Module 1: Introduction to CentOS and RHEL Migration

- CentOS vs RHEL lifecycle and support differences
- Migration planning and considerations

Module 2: Tools for Migration and Upgrade

- Red Hat Insights
- Leapp utility for in-place upgrades
- Conversion tools for CentOS to RHEL

Module 3: Preparing for Migration

- Assessing applications and dependencies
- Creating backups and recovery plans

Module 4: Executing CentOS to RHEL Migration

- Conversion workflows and step-by-step migration process

- Testing post-migration workloads

Module 5: Performing RHEL In-Place Upgrades

- Supported upgrade paths and methods
- Using Leapp for automated upgrades
- Verifying upgrade results

Module 6: Post-Migration and Upgrade Validation

- Testing services and applications
- Troubleshooting common migration and upgrade issues

Module 7: Best Practices and Enterprise Strategies

- Ensuring compliance and security post-migration
- Long-term platform maintenance

