

[RH318]: Red Hat Virtualization

Length	: 4 days
Audience(s)	: Linux system administrators and IT professionals
Delivery Method	: Instructor-led (Classroom)

Course Overview

Students acquire the skills and knowledge to effectively create, deploy, manage, and migrate Linux and Microsoft Windows virtual machines hosted on either dedicated Red Hat Enterprise Virtualization Hypervisor nodes or Red Hat Enterprise Linux servers using Red Hat Enterprise Virtualization Manager. With hands-on labs and a deep dive into the technology, this training course is the perfect first step for enterprise planning or executing a virtualization deployment strategy.

This course also helps candidates prepare for the Red Hat Enterprise Virtualization Administrator exam (EX318), which, if passed, earns them the Red Hat Certified Virtualization Administrator (RHCVA) certification.

Audience Profile

- Experienced Linux system administrators responsible for managing enterprise servers who are interested in learning how to manage large numbers of servers or virtual machines using Red Hat Enterprise Virtualization
- IT professionals interested in earning a Red Hat Certified Virtualization Administrator (RHCVA) certification

At Course Completion

After completing this course, students learn how to:

- Deploy Red Hat Enterprise Virtualization platform
- Configure Red Hat Enterprise Virtualization environment (datacenters, clusters, and storage domains)
- Install, manage, and troubleshoot virtual machines (servers and desktops)
- Create virtual machine snapshots and explore high-availability options
- Use templates for rapid virtual machine deployment
- Secure Red Hat Enterprise Virtualization environment with multilevel administrative roles
- Monitor and create custom reports

Pre-Requisites

- IT professionals who have earned an Red Hat Certified System Administrator (RHCSA) certification or maintain the equivalent experience with Linux
- System administration experience on Microsoft Windows operating systems is beneficial but not necessary for this course

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Course Outline

Module 1: Red Hat Enterprise Virtualization overview

Lessons

- Understand general virtualization, KVM concepts, and Red Hat® Enterprise Virtualization platform

Module 2: Red Hat Enterprise Virtualization Manager

Lessons

- Install, test, remove, and troubleshoot Red Hat Enterprise Virtualization Manager

Module 3: Red Hat Enterprise Virtualization Hypervisor

Lessons

- Install, configure, upgrade, and troubleshoot Red Hat Enterprise Virtualization Hypervisor

Module 4: Red Hat Enterprise Virtualization environment configuration

Lessons

- Create and configure datacenters, clusters, storage domains, and logical networks

Module 5: Red Hat Enterprise Virtualization for Servers

Lessons

- Install, perform basic management of, and troubleshoot virtual servers and images

Module 6: Red Hat Enterprise Virtualization for Desktops

Lessons

- Install virtual desktops and configure paravirtualized drivers

Module 7: Virtual machine templates

Lessons

- Create Microsoft Windows and Red Hat Enterprise Linux® virtual machines with template images

Module 8: Pools and users

Lessons

- Use pools and deploy the user portal with multilevel administrative roles

Module 9: Monitoring and reports

Lessons

- Monitor Red Hat Enterprise Virtualization and create custom reports

Module 10: Advanced Red Hat Enterprise Virtualization

Lessons

- Back up and restore Red Hat Enterprise Virtualization; CLI and API interfaces.

Module 11: Red Hat Enterprise Linux hosts

Lessons

- Manage virtual machines with Red Hat Network.

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Module 12: Migration and high availability

Lessons

- Migrate a virtual machine and explore high availability

Module 13: Comprehensive review

Lessons

- Apply the performance objectives learned throughout the course

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