RH199 RHCSA Rapid Track Training

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Duration: **5 Day**

Overview

RHCSA Rapid Track (RH199) is an accelerated Linux system administration course that brings together the core subjects covered in Red Hat System Administration I (RH124) and Red Hat System Administration II (RH134). Developed for professionals with previous Linux administration experience, the course focuses on applying and strengthening existing skills in Red Hat Enterprise Linux environments.

Based on **Red Hat Enterprise Linux 10**, the training addresses essential administrative responsibilities, including system configuration, user and access management, storage, networking, security, performance optimization, and container operations.

The course provides experienced IT professionals with a focused review of command-line procedures and enterprise administration tools used to manage Red Hat Enterprise Linux systems effectively.

The RH199 training program covers the following areas:

- Software package administration using the updated repository structure and AppStream modules
- Creation and administration of storage devices, volumes, and file systems, including Stratis storage management
- Configuration of network services and system security
- Process administration, task scheduling, and system performance tuning
- Management of local users, groups, and authentication
- Server administration through the Cockpit web-based management interface
- System troubleshooting and use of technical support resources
- Deployment and management of containers

Benefits for Organizations

RH199 helps organizations develop the technical capabilities required for the fundamental administration and configuration of Red Hat Enterprise Linux environments.

The command-line techniques and enterprise administration tools covered in the course support efficient deployment of Red Hat Enterprise Linux systems and their integration with existing IT infrastructure.

Participants strengthen their ability to troubleshoot configuration problems, implement secure user and group administration, use storage resources efficiently, and perform essential operational responsibilities.

Through its accelerated structure, the course enables IT professionals with previous Linux experience to enhance their Red Hat Enterprise Linux administration skills within a focused and intensive learning program.

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Prerequisites

Participants should already have a solid understanding of fundamental Linux concepts and sufficient practical knowledge to carry out common system administration activities.

Hands-on professional experience in Linux system administration is strongly recommended. Rather than introducing Linux concepts from the beginning, this accelerated course concentrates on extending existing knowledge through Red Hat Enterprise Linux administration practices.

Individuals who are not yet familiar with fundamental Linux concepts are encouraged to complete **Red Hat System Administration I (RH124)** before attending RH199.

Who Should Attend

RH199 is intended for experienced IT professionals who want to improve their Linux administration capabilities or broaden their existing technical expertise.

The course is particularly relevant to Linux system administrators, Windows system administrators, network administrators, and professionals working within infrastructure and systems administration teams.

It is suitable for individuals responsible for:

- Installing, configuring, upgrading, and maintaining Linux systems according to established procedures and standards
- Delivering operational assistance and technical support for Linux environments
- Monitoring system performance and service availability
- Developing and deploying scripts to automate administrative tasks and routine system operations

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What You Will Learn

After completing RH199, participants are expected to have strengthened their ability to perform essential Red Hat Enterprise Linux administration tasks.

The course develops the practical skills required to:

- Access the command line on local and remote systems
- Administer files and directories using command-line utilities
- Create and manage local user and group accounts
- Monitor and control Linux processes
- Administer system services, daemons, and startup operations
- Run and manage services delivered through existing container images
- Configure and maintain system performance tuning profiles
- Apply file system permissions to control resource access
- Examine, interpret, and store system log records
- Configure and secure the OpenSSH service
- Install and update software packages and AppStream components
- Administer Linux file systems and storage volumes
- Configure Linux networking and manage firewall rules

Outline

1. Access Systems and Find Support

Explore methods for signing in to local and remote Linux systems. Learn how Red Hat Insights and available support resources can assist with investigating and resolving administration issues.

2. Navigate File Systems

Work with files and directories through the Bash shell. Practice command-line operations for creating, copying, moving, deleting, and organizing files.

3. Administer Local Users and Groups

Examine how to create, modify, and remove local Linux users and groups. Manage user accounts and apply local password policies.

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4. Manage File Access Permissions

Configure and modify Linux file system permissions. Understand how different permission settings influence access control and system security.

5. Administer SELinux Security

Use SELinux to apply and manage security controls on Red Hat Enterprise Linux servers. Examine how SELinux configurations help protect system resources.

6. Tune System Performance

Evaluate and administer system processes, adjust performance parameters, and modify process scheduling priorities. Explore performance management practices in Red Hat Enterprise Linux environments.

7. Install and Update Software Packages

Download, install, update, and administer software packages through Red Hat and YUM repositories. Review the role of package management in routine system maintenance.

8. Manage Basic Storage

Use command-line tools to create and maintain storage devices, disk partitions, file systems, and swap areas.

9. Control Services and System Startup

Use systemd to supervise and control network services, background system daemons, and the operating system boot process.

10. Configure Networking

Configure network interfaces and network settings on Red Hat Enterprise Linux servers. Review the administrative tasks involved in maintaining system network connectivity.

11. Analyze and Preserve System Logs

Locate, examine, and interpret system event logs. Learn how log information supports troubleshooting and system issue investigation.

12. Implement Advanced Storage Capabilities

Create and administer logical volumes through the command line. Configure logical volumes containing file systems and swap areas, and explore advanced storage technologies such as Stratis and VDO.

13. Schedule Automated Tasks

Configure system tasks to execute automatically at designated times or at a later date.

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14. Access Network-Based Storage

Learn how to connect to and use network-attached storage resources through the NFS protocol.

15. Administer Network Security

Control network access to services by configuring system firewall settings and SELinux policies. Explore how these controls support secure access to network services.

16. Run and Manage Containers

Obtain, launch, and administer container-based services on a single Red Hat Enterprise Linux server. Review the essential operations involved in managing lightweight container services.