RHCSA Rapid Track Course

Course Code: RH199; Course Duration: 5 days; Instructor-led

WHAT YOU WILL LEARN
Learn essential Red Hat Enterprise Linux 8 tasks and methods in a condensed format.

The RHCSA Rapid Track course (RH199) combines the foundations and applications established and covered in Red Hat System Administration I (RH124) and Red Hat System Administration II (RH134). The rapid pace of review and consolidated course timeline allow you to focus on practical application, making this offering best suited to those who already have significant experience with Linux® administration.

This course is based on Red Hat® Enterprise Linux 8.

Course content summary:
* Package management with new repository structure and appstream modules.
* Create storage devices, volumes, and file systems, including Stratis storage management.
* Configure network services and security.
* Manage processes, scheduling, and tuning.
* Manage users, groups, and authentication.
* Perform server management with the Cockpit web management utility.
* Troubleshoot and obtain support.

AUDIENCE
This course is geared toward Windows system administrators, network administrators, and other system administrators who are interested in supplementing current skills or backstopping other team members, in addition to Linux system administrators who are responsible for these tasks:
* Configuring, installing, upgrading, and maintaining Linux systems using established standards and procedures
* Providing operational support
* Managing systems for monitoring system performance and availability
* Writing and deploying scripts for task automation and system administration.

PREREQUISITES
* You will be expected to already understand fundamental Linux computing concepts and be ready to practice the Red Hat Enterprise Linux methods for performing system administration tasks. Significant field experience working with Linux as a system administrator is recommended.
* If you do not have experience with fundamental Linux computer concepts, we advise you to start with the Red Hat System Administration I (RH124) course instead.

METHODOLOGY
This program will be conducted with interactive lectures, PowerPoint presentation, discussion and practical exercise.

COURSE OBJECTIVES
This course is intended to develop the skills needed for basic administration and configuration of Red Hat Enterprise Linux, introducing key command line concepts and enterprise-level tools and laying the foundation for the rapid deployment of Red Hat Enterprise Linux. The curriculum also introduces the basic administration skills needed for resolving configuration issues and integrating Red Hat Enterprise Linux systems with other existing environments.

This course establishes secure user and group administration and allows administrators to use available storage solutions more efficiently and securely. The rapid pace can quickly turn a computer professional with basic knowledge of Linux into a fully capable Linux administrator.

As a result of attending this course, you should be able to perform essential Linux system administration tasks, including establishing network connectivity, managing physical storage, and executing basic security administration.

You should be able to demonstrate these skills:
* Access the command line locally and remotely
* Manage files from the command line
* Manage local users and groups
* Monitor and manage Linux processes

- Control services, daemons, and the boot process
- Manage tuning profiles for system performance
- Control access to files with file system permissions
- Analyze and store log files
- Configure and secure the OpenSSH service
- Install and update software packages and appstreams
- Manage Linux file systems and volumes
- Manage Linux networking and firewalls

COURSE OUTLINES

Module 1: Access systems and get help
- Log in to local and remote Linux systems, and investigate problem resolution methods provided through Red Hat Insights and support.

Module 2: Navigate file systems
- Copy, move, create, delete, and organize files while working from the bash shell.

Module 3: Manage local users and groups
- Create, manage, and delete local users and groups and administer local password policies.

Module 4: Control access to files
- Set Linux file system permissions on files and to interpret the security effects of different permission settings.

Module 5: Manage SELinux security
- Protect and manage the security of a server by using SELinux.

Module 6: Tune system performance
- Evaluate and control processes, set tuning parameters, and adjust process scheduling priorities on a Red Hat Enterprise Linux system.

Module 7: Install and update software packages
- Download, install, update, and manage software packages from Red Hat and yum package repositories.

Module 8: Manage basic storage
- Create and manage storage devices, partitions, file systems, and swap spaces from the command line.

Module 9: Control services and the boot process
- Control and monitor network services, system daemons, and the boot process using systems.

Module 10: Manage networking
- Configure network interfaces and settings on Red Hat Enterprise Linux servers.

Module 11: Analyze and store logs
- Locate and accurately interpret logs of system events for troubleshooting purposes.

Module 12: Implement advanced storage features
- Create and manage logical volumes containing file systems and swap spaces from the command line and configure advanced storage features with Stratis and VDO.

Module 13: Schedule future tasks
- Schedule tasks to automatically execute in the future.

Module 14: Access network-attached storage
- Access network-attached storage, using the NFS protocol.

Module 15: Manage network security
- Control network connections to services using the system firewall and SELinux rules.