

[RH199]: RHCSA Rapid Track Course

Length : 4 Days
Audience(s) : IT Professionals
Delivery Method : Instructor-led (Classroom)

Course Overview

Note: This course builds on a participants' existing understanding of command-line based Linux system administration. Participants should be able to execute common commands using the shell, work with common command options, and access man pages for help. Participants lacking this knowledge are strongly encouraged to take Red Hat System Administration I (RH124) and II (RH134) instead.

Audience Profile

Participants for this class should have 1-3 years of full time Linux administration experience.

At Course Completion

- Managing users and groups, files, and file permissions
- Updating software packages with yum
- Managing and troubleshooting systemd services during the boot process
- Network configuration and basic troubleshooting
- Managing local storage and creating and using file systems
- Firewall management with firewalld
- Managing kernel-based virtual machines (KVMs)
- Automating installation of Red Hat Enterprise Linux using Kickstart

Participants should be prepared to take the Red Hat Certified System Administrator (RHCSA) exam.

Pre-Requisites

- Linux (some of the course may be review)
- The bash shell, including job control (&, fg, bg, jobs), shell expansion (command, tilde, globbing, brace, protection from expansion), I/O redirection, and pipes
- IPv4 networking addressing and routing concepts, TCP/UDP, and ports
- Navigation of the GNOME 3 interface
- Editing text files from the command line with vim or other available programs
- Finding information in man pages and info nodes
- The concept of file permissions
- Interactive installation of Red Hat Enterprise Linux

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- Per-user 'at' and 'cron' jobs
- Use of archival utilities such as 'tar', 'zip', and compression utilities
- Absolute and relative paths
- Finding files with 'find' and 'locate'

Course Outline

Module 1: Accessing the command line

Lessons

- Log in to a Linux system and run simple commands using the shell

Module 2: Managing files from the command line

Lessons

- Work with files from the bash shell prompt

Module 3: Managing local Linux users and groups

Lessons

- Manage Linux users and groups and administer local password policies

Module 4: Controlling access to files with Linux file system permissions

Lessons

- Set access permissions on files and interpret the security effects of different permission settings

Module 5: Managing SELinux security

Lessons

- Use SELinux to manage access to files and interpret and troubleshoot SELinux security effects

Module 6: Monitoring and managing Linux processes

Lessons

- Monitor and control processes running on the system

Module 7: Installing and updating software packages

Lessons

- Download, install, update, and manage software packages from Red Hat and yum package repositories

Module 8: Controlling services and daemons

Lessons

- Control and monitor network services and system daemons using systemd

Module 9: Managing Red Hat Enterprise Linux networking

Lessons

- Configure basic IPv4 networking on Red Hat Enterprise Linux systems

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Module 10: Analyzing and storing logs

Lessons

- Locate and interpret relevant system log files for troubleshooting purpose

Module 11: Managing storage and file systems

Lessons

- Create and use disk partitions, logical volumes, file systems, and swap spaces

Module 12: Scheduling system tasks

Lessons

- Schedule recurring system tasks using cron and systemd timer units

Module 13: Mounting network file systems

Lessons

- Mount network file system (NFS) exports and server message block (SMB) shares from network file servers

Module 14: Limiting network communication with firewalld

Lessons

- Configure a basic local firewall

Module 15: Virtualization and kickstart

Lessons

- Manage KVMs and install them with Red Hat Enterprise Linux using Kickstart

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