RHCSA - Rapid Track Course - RH199

Duration: 5 Days | Language: English

Course Delivery: Classroom

Course overview

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

Audience

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

Prerequisites for this course

Students attending this course should have basic experience with the following, with minimal dependence on documentation:
• 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
• Per-user 'at' and 'cron' jobs
• Use of archival utilities such as 'tar', 'zip', and compression utilities
• Absolute and relative paths
o Finding files with 'find' and 'locate'
Confirmation of the correct skill-set knowledge can be obtained by passing the online skills assessment.

Course Outline

Unit 1-Accessing the command line
Objective-Log in to a Linux system and run simple commands using the shell.

Unit 2-Managing files from the command line
Objective-Work with files from the bash shell prompt.

Unit 3-Managing local Linux users and groups
Objective-Manage Linux users and groups and administer local password policies.

Unit 4-Controlling access to files with Linux file system permissions
Objective-Set access permissions on files and interpret the security effects of different permission settings.

Unit 5-Managing SELinux security
Objective-Use SELinux to manage access to files and interpret and troubleshoot SELinux security effects.

Unit 6-Monitoring and managing Linux processes
Objective-Monitor and control processes running on the system.

Unit 7-Installing and updating software packages
Objective-Download, install, update, and manage software packages from Red Hat and yum package repositories.

Unit 8-Controlling services and daemons
Objective-Control and monitor network services and system daemons using systemd.

Unit 9-Managing Red Hat Enterprise Linux networking
Objective-Configure basic IPv4 networking on Red Hat Enterprise Linux systems.

Unit 10-Analyzing and storing logs
Objective-Locate and interpret relevant system log files for troubleshooting purposes.

Unit 11-Managing storage and file systems
Objective-Create and use disk partitions, logical volumes, file systems, and swap spaces.

Unit 12-Scheduling system tasks
Objective-Schedule recurring system tasks using cron and systemd timer Units.

Unit 13-Mounting network file systems
Objective-Mount network file system (NFS) exports and server message block (SMB) shares from network file servers.

Unit 14-Limiting network communication with firewalld
Objective-Configure a basic local firewall.

Unit 15-Virtualization and kickstart
Objective-Manage KVMs and install them with Red Hat Enterprise Linux using Kickstart.