

RH199 RHCSA Rapid Track Course

Course Summary

Description

The RHCSA Fast Track course (RH199) is designed for experienced Linux System Administrators who want to harden their technical skill sets and become accredited with the RHCSA certification. Using a best-of-breed contemporary teaching approach, students will learn to properly manage a Linux workstation and server, including installation and configuration of local components and services as well as connections to existing network services. To successfully navigate this course, students must already have solid Linux command line experience to perform tasks at an accelerated pace. In addition, they should possess the necessary skills to execute common commands, such as cp, grep, sort, mkdir, tar, mkfs, ssh, and yum, and be familiar with accessing man pages for help. At the completion of the course, students will be adequately prepared to take the Red Hat Certified System Administration (RHCSA) exam.

Objectives

At the end of this course, students will be able to:

- Manage local storage, including encrypted volumes
- Deploy network services, including VNC, SSH, FTP, and web services
- Secure files with ACLs and network services with the firewall and SELinux
- Manage virtual machines with KVM technology
- Automate installation of Linux using kickstart

Topics

- Network Configuration and Troubleshooting
- Managing User Accounts
- Command-Line Process Management
- Manage System Resources
- Installing and Managing Software
- Administer Remote Systems
- Deploy and Secure File-Sharing Services
- Managing SELinux
- Managing Simple Partitions and Filesystems
- Using Filesystem Access Control Lists
- Logical Volume Management
- Control the Boot Process
- Tune and Maintain the Kernel
- Manage Virtual Machines
- Automate Installation with Kickstart
- Get Help in a Graphical Environment

Audience

- Practiced Linux system administrators who currently manage Linux servers at the enterprise level
- Skilled Linux system administrators who want or are required to demonstrate competencies by earning the RHCSA

Prerequisites

Full-time Linux administration with 1-3 years of experience and the following skills:

- Using the Bash shell and managing files and directories from the command line
- Configuring print queues to local and remote printers
- Monitoring system resources at a basic level (ps, kill)
- Managing system software (installing and updating packages with yum)
- Establishing network connectivity using DHCP
- Administering local user and group accounts
- Managing local, physical storage

Duration

Four days

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Course Outline

- I. Network Configuration and Troubleshooting**
 - A. Configure, manage, and test network settings
- II. Managing User Accounts**
 - A. Manage user accounts including password aging
 - B. Connect to a central LDAP directory service
- III. Command-Line Process Management**
 - A. Launch, monitor, govern, and terminate processes using the BASH command-line
- IV. Manage System Resources**
 - A. Schedule recurring tasks
 - B. Monitor and manage system logs
- V. Installing and Managing Software**
 - A. Install software and query with yum using RHN and a custom repository
- VI. Administer Remote Systems**
 - A. Access remote systems using command-line and graphical techniques
- VII. Deploy and Secure File-Sharing Services**
 - A. Install and manage basic network services, including firewall configuration
- VIII. Managing SELinux**
 - A. Manage SELinux booleans and filesystem contexts
- IX. Managing Simple Partitions and Filesystems**
 - A. Manage encrypted partitions, filesystems, and swap space
- X. Using Filesystem Access Control Lists**
 - A. Restrict file access with filesystem ACLs
- XI. Logical Volume Management**
 - A. Understand logical volume concepts and manage logical volumes, including snapshots
- XII. Control the Boot Process**
 - A. Understand runlevels and manage GRUB
- XIII. Tune and Maintain the Kernel**
 - A. Pass parameters to the kernel and manage kernel modules
- XIV. Manage Virtual Machines**
 - A. Deploy and manage KVM virtual machines
- XV. Automate Installation with Kickstart**
 - A. Create kickstart configurations and use them to install Linux
- XVI. Get Help in a Graphical Environment**
 - A. Access Red Hat documentation and services