

RH135 - Red Hat System Administration II with RHCSA Exam

Building on command line skills for Linux Administrators

Course Description

Red Hat System Administration II (RH134) is designed for IT professionals working to become full-time enterprise Linux system administrators. The course is a followup to System Administration I and continues to utilize today's best-of-breed, contemporary teaching methodology. Students will be actively engaged in task-focused activities, lab-based knowledge checks, and facilitative discussions to ensure maximum skills transfer and retention. Building on the foundation of command line skills covered in System Administration I, students will dive deeper into Red Hat Enterprise Linux to broaden their "tool kits" of administration skills. By the end of this five-day course, students will be able to administer and troubleshoot file systems and partitioning, logical volume management, access control, package management. Students who attend Red Hat System Administration I & II will be fully prepared to take the [Red Hat Certified System Administration \(RHCSA\)](#) exam.

Audience

- IT professionals who have attended Red Hat System Administration I and want the skills to be full-time enterprise Linux administrators and/or earn RHCSA certifications

Prerequisites

- Red Hat System Administration I
- Confirmation of the correct skill set knowledge can be obtained by passing the online pre-assessment quiz at redhat.com/explore/pre-assessment

Course Content

- Network configuration and troubleshooting
- Managing file systems and logical volumes

- Controlling user and file access
- Installing and managing services and processes
- Essential command line operations
- Troubleshooting

Course Outline

Unit 1: Automated Installations of Red Hat Enterprise Linux

Objectives: Create and manage kickstart configuration files; perform installations using kickstart

Unit 2: Accessing the Command Line

Objectives: Access the command line locally and remotely; gain administrative privileges from the command line

Unit 3: Intermediate Command Line Tools

Objectives: Use hardlinks, archives and compression, and vim

Unit 4: Regular Expressions, Pipelines, and I/O Redirection

Objectives: Use regular expressions to search patterns in files and output; redirect and pipe output

Unit 5: Network Configuration and Troubleshooting

Objectives: Configure network settings; troubleshoot network issues

Unit 6: Managing Simple Partitions and Filesystems

Objectives: Create and format simple partitions, swap partitions, and encrypted partitions

Unit 7: Managing Flexible Storage with the Logical Volume Manager (LVM)

Objectives: Implement LVM and LVM snapshots

Unit 8: Access Network File Sharing Services; NFS and CIFS

Objectives: Implement NFS, CIFS, and autofs

Unit 9: Managing User Accounts

Objectives: Manage user accounts including password aging

Unit 10: Network User Accounts with LDAP

Objectives: Connect to a central LDAP directory service

Unit 11: Controlling Access to Files

Objectives: Manage group memberships, file permissions, and access control lists (ACL)

Unit 12: Managing SELinux

Objectives: Activate and deactivate SELinux; set file contexts; manage SELinux booleans; analyze SELinux logs

Unit 13: Installing and Managing Software

Objectives: Manage software and query information with yum; configure client-side yum repository files

Unit 14: Managing Installed Services

Objectives: Managing services; verify connectivity to a service

Unit 15: Analyzing and Storing Logs

Objectives: Managing logs with rsyslog and logrotate

Unit 16: Managing Processes

Objectives: Identify and terminate processes, change the priority of a process, and use cron and at to schedule processes

Unit 17: Tuning and Maintaining the Kernel

Objectives: List, load, and remove modules; use kernel arguments

Unit 18: System Recovery Techniques

Objectives: Understand the boot process and resolve boot problems