

Red Hat - Linux EX200: Red Hat Certified System Administrator (RHCSA) Exam

- 3 Hours
- Exam Included with course: RH200

Upcoming Dates

Course Description

The performance-based Red Hat Certified System Administrator (RHCSA) exam (EX200) tests your knowledge in areas of system administration common across a wide range of environments and deployment scenarios. The skills tested in this exam are the foundation for system administration across all Red Hat® products.

By passing this exam, you become a Red Hat Certified System Administrator, which also counts toward becoming a Red Hat Certified Architect (RHCA®). You must be an RHCSA® to become a Red Hat Certified Engineer (RHCE®).

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

Course Outline

Study points for the exam

RHCSA exam candidates should be able to accomplish the tasks below without assistance. These have been grouped into several categories.

Understand and use essential tools

- Access a shell prompt and issue commands with correct syntax
- Use input-output redirection (>, >>, |, 2>, etc.)
- Use grep and regular expressions to analyze text
- Access remote systems using SSH
- Log in and switch users in multiuser targets
- Archive, compress, unpack, and uncompress files using tar, star, gzip, and bzip2
- Create and edit text files
- Create, delete, copy, and move files and directories
- Create hard and soft links
- List, set, and change standard ugo/rwx permissions
- Locate, read, and use system documentation including man, info, and files in /usr/share/doc

Operate running systems

- Boot, reboot, and shut down a system normally
- Boot systems into different targets manually
- Interrupt the boot process in order to gain access to a system
- Identify CPU/memory intensive processes and kill processes
- Adjust process scheduling
- Locate and interpret system log files and journals

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- Preserve system journals
- Start, stop, and check the status of network services
- Securely transfer files between systems

Configure local storage

- List, create, delete partitions on MBR and GPT disks
- Create and remove physical volumes
- Assign physical volumes to volume groups
- Create and delete logical volumes
- Configure systems to mount file systems at boot by universally unique ID (UUID) or label
- Add new partitions and logical volumes, and swap to a system non-destructively

Create and configure file systems

- Create, mount, unmount, and use vfat, ext4, and xfs file systems
- Mount and unmount network file systems using NFS
- Extend existing logical volumes
- Create and configure set-GID directories for collaboration
- Configure disk compression
- Manage layered storage
- Diagnose and correct file permission problems

Deploy, configure, and maintain systems

- Schedule tasks using at and cron
- Start and stop services and configure services to start automatically at boot
- Configure systems to boot into a specific target automatically
- Configure time service clients
- Install and update software packages from Red Hat Network, a remote repository, or from the local file system
- Work with package module streams
- Modify the system bootloader

Manage basic networking

- Configure IPv4 and IPv6 addresses
- Configure hostname resolution
- Configure network services to start automatically at boot
- Restrict network access using firewall-cmd/firewall

Manage users and groups

- Create, delete, and modify local user accounts
- Change passwords and adjust password aging for local user accounts
- Create, delete, and modify local groups and group memberships
- Configure superuser access

Manage security

- Configure firewall settings using firewall-cmd/firewalld
- Configure key-based authentication for SSH
- Set enforcing and permissive modes for SELinux
- List and identify SELinux file and process context
- Restore default file contexts
- Use boolean settings to modify system SELinux settings
- Diagnose and address routine SELinux policy violations

As with all Red Hat performance-based exams, configurations must persist after reboot without intervention.

Red Hat reserves the right to add, modify, and remove objectives. Such changes will be made public in advance through revisions to this document.

Audience

- Experienced Red Hat Enterprise Linux system administrators seeking validation of their skills
- Students who have attended Red Hat System Administration I (RH124) and Red Hat System Administration II (RH134) and are on the path to becoming an RHCSA
- Experienced Linux system administrators who require a certification either by their organization or based on a mandate (DoD 8570 directive)

- IT professionals who are on the path to becoming a Red Hat Certified Engineer (RHCE)
- An RHCE who is noncurrent or who is about to become noncurrent and wants to recertify as an RHCE

Prerequisites

Recommended for this exam

- Have either taken Red Hat System Administration I (RH124) and Red Hat System Administration II (RH134) or the RHCSA Rapid Track course (RH199) that combines those courses, or have comparable work experience as a system administrator on Red Hat Enterprise Linux
- Review the Red Hat Certified System Administrator exam (EX200) objectives

What You Will Learn