Red Hat Training and Certification

RH199
Red Hat Certified System Administrator Rapid Track course

Learn essential Red Hat Enterprise Linux configuration, administration, and maintenance in a condensed format designed for experienced Linux system administrators.

The RHCSA Rapid Track course (RH199) features Red Hat® Enterprise Linux® 10 and is designed for those who already have significant experience with Linux administration. This accelerated course combines essential content from Red Hat System Administration I (RH124) and Red Hat System Administration II (RH134) to help students operate, manage, and maintain a Red Hat Enterprise Linux system.

This course is based on Red Hat Enterprise Linux 10.

Course content summary

- Manage users, groups, and authentication.
- Manage packages with a new repository structure and AppStream modules.
- Use and manage desktop software by using Flatpak.
- Manage processes, scheduling, and tuning.
- Configure network services and security.
- Create storage devices, volumes, and file systems, including Stratis storage management.
- Perform server management with the Cockpit web management utility.
- Troubleshoot problems and obtain support.

Audience for this course

- System administrators, platform engineers, developers, and other IT professionals who have a foundational understanding of the Linux command line, and are seeking to learn key tasks to administer a Red Hat Enterprise Linux system.

Recommended training

- Familiarity with fundamental Linux computing concepts, experience as a Linux user, and readiness to perform system administration tasks.
- Significant field experience working with Linux as a system administrator is recommended.
- If you do not have experience with fundamental Linux computer concepts, Red Hat recommends that you start by taking the Red Hat System Administration I (RH124) course instead.

Course reference: https://www.redhat.com/en/services/training/rh199-red-hat-certified-system-administrator-rapid-track-course

Outline for this course

- **Registering Systems for Red Hat Support**
  Register a system by using your Red Hat account to get support services and software that Red Hat provides.

- **Managing Files from the Command Line**
  Copy, move, create, delete, and organize files from the command line.

- **Editing Text Files**
  Create, view, and edit text files from the command line.

- **Managing Local Users and Groups**
  Obtain superuser access to a system; create, manage, and delete local users and groups; and administer local password policies.

- **Controlling Access to Files**
  Set standard permissions on files and interpret the security effects of different permission settings.

- **Installing and Updating Software with RPM**
  Download, install, update, and manage software packages from Red Hat and DNF package repositories.

- **Installing and Updating Applications by using Flatpak**
  Install, upgrade, and use desktop software from the Red Hat Ecosystem Catalog by using Flatpak.

- **Accessing Removable Media**
  Access file systems on removable media devices by mounting them on a directory in the file-system hierarchy.

- **Monitoring and Managing Linux Processes**
  Investigate, control, and terminate processes that run on a Red Hat Enterprise Linux System.

- **Controlling Services and Daemons**
  Control and monitor the system services and daemons that systemd starts.

- **Managing Network Configuration**
  Configure network interfaces and settings on Red Hat Enterprise Linux servers.

- **Scheduling System Tasks**
  Schedule system programs that must run on a recurring basis to support daemons or operating system functions.

- **Analyzing and Storing Logs**
  Locate and interpret system logs for troubleshooting purposes, and ensure accurate timestamps for log events.

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- **Managing Security with SELinux**
  Protect systems and manage security by using SELinux.

- **Managing Basic Storage**
  Manage storage devices by creating partitions, file systems, and swap spaces from the command line.

- **Managing Storage with Logical Volume Manager**
  Use Logical Volume Manager (LVM) to manage logical volumes that can contain file systems and swap spaces.

- **Controlling and Troubleshooting the Boot Process**
  Manage how the system boots to control which services start and to troubleshoot and repair boot-time problems.

- **Recovering Superuser Access**
  Gain administrative access to a system when the superuser password is unknown or is locked.

- **Managing Network Security**
  Control network connections to services by using the system firewall, and network services that can bind to particular ports by using SELinux.

- **Accessing Network-attached Storage**
  Access network-attached storage that is provided by using the Network File System (NFS) protocol, either manually or by using the automounter.

- **Comprehensive Review**
  Practice skills learned in RHCSA Repaid Track Course.

As a result of attending this course

You should be able to perform essential Linux system administration tasks, including establishing network connectivity, managing physical storage, and executing basic security administration.

You should be able to demonstrate these skills:

- Access the command line locally and remotely
- Manage files from the command line
- Manage local users and groups
- Monitor and manage Linux processes
- Control services, daemons, and the boot process
- Manage services provided in existing container images
- Manage tuning profiles for system performance
- Control access to files with file system permissions
- Analyze and store log files

Course reference: https://www.redhat.com/en/services/training/rh199-red-hat-certified-system-administrator-rapid-track-course

- Configure and secure the OpenSSH service
- Install and update software packages
- Manage Linux file systems and volumes
- Manage Linux networking and firewalls

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