Red Hat - Linux

RH134VT: Red Hat System Administration II

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- 5 Days

Upcoming Dates

Course Description

Focuses on the key tasks needed to become a full-time Linux administrator

Red Hat System Administration II (RH134) builds upon and lends context to the foundational knowledge established in Red Hat System Administration I (RH124). This follow-on course demonstrates more detailed use cases for Red Hat® Enterprise Linux®, preparing you for the Red Hat Certified System Administrator exam (EX200).

This course is based on Red Hat Enterprise Linux 8.

Course content summary

- Install Red Hat Enterprise Linux using scalable methods
- Access security files, file systems, and networks
- Execute shell scripting and automation techniques
- Manage storage devices, logical volumes, and file systems
- Manage security and system access
- Control the boot process and system services

Course Outline

Improve command line productivity

Run commands more efficiently by using advanced features of the bash shell, shell scripts, and various utilities provided by Red Hat Enterprise Linux.

Schedule future tasks

Schedule commands to run in the future, either one time or on a repeating schedule.

Tune system performance

Improve system performance by setting tuning parameters and adjusting scheduling priority of processes.

Control access to files with ACLs

Interpret and set access control lists (ACLs) on files to handle situations requiring complex user and group access permissions.

Manage SELinux security

Protect and manage the security of a server by using SELinux.

Maintain basic storage

Create and manage storage devices, partitions, file systems, and swap spaces from the command line.

Manage logical volumes

Create and manage logical volumes containing file systems and swap spaces from the command line.

Implement advanced storage features

Manage storage using the Stratis local storage management system and use VDO volumes to optimize storage space in use.

Access network-attached storage

Use the NFS protocol to administer network-attached storage.

Control the boot process

Manage the boot process to control services offered and to troubleshoot and repair problems.

Manage network security

Control network connections to services using the system firewall and SELinux rules.

Install Red Hat Enterprise Linux

Install Red Hat Enterprise Linux on servers and virtual machines.

Audience

This course is geared toward Windows system administrators, network administrators, and other system administrators who are interested in supplementing current skills or backstopping other team members, in addition to Linux system administrators who are responsible for these tasks:

- Configuring, installing, upgrading, and maintaining Linux systems using established standards and procedures
- Providing operational support
- Managing systems for monitoring system performance and availability
- Writing and deploying scripts for task automation and system administration

Prerequisites

Successful completion of Red Hat System Administration I (RH124) is recommended. Experienced Linux administrators seeking to accelerate their path toward becoming a Red Hat Certified System Administrator should start with the RHCSA Rapid Track course (RH199).

What You Will Learn

Impact on the organization

This training provides your team members with a solid foundation in Linux system administration, helping ensure improved ability to manage your infrastructure efficiently. These skills can help improve system reliability and storage utilization efficiency, while making responsiveness to system failures faster and more accurate. This course is the second of a two-part series that takes a computer professional from minimal Linux experience to being a fully capable Linux administrator.

Red Hat has created this course in a way intended to benefit our customers, but each company and infrastructure is unique, and actual results or benefits may vary.

Impact on the individual

As a result of attending this course, you should be able to perform the key tasks needed to become a full-time Linux administrator. You will be introduced to more advanced administrative topics, such as storage management using LVM, SELinux management, and automated installation. This course goes deeper into enterprise Linux administration, including file systems and partitioning, logical volumes, SELinux, firewall configuration, and troubleshooting.

You should be able to demonstrate these skills:

- Install Red Hat Enterprise Linux using Kickstart
- Manage file systems and logical volumes
- Manage scheduled jobs
- Access network file systems
- Manage SELinux
- Control firewalls
- Perform troubleshooting tasks