Red Hat System Administration II (RH134) – RHEL 9

Course Duration: 40 Hours (5 Days)

Overview

The Red Hat System Administration II (RH134) – RHEL 9 course is designed for IT professionals working to become full-time enterprise Linux system administrators. The course builds upon the foundation of command-line skills covered in the Red Hat System Administration I course (RH124) and dives deeper into RHEL administration. Learners will enhance their Command-line productivity by mastering advanced features of the Bash shell, writing shell scripts, and utilizing various utilities. The course covers how to schedule future tasks, tune system performance, and control file access with ACLs. Security is a key aspect, with lessons on managing SELinux security and network security, ensuring that systems are well-protected. The course also delves into Managing basic storage, Logical volumes, and implementing advanced storage features like Stratis and VDO. Accessing network-attached storage with NFS and managing the boot process are essential skills taught in the course. Lastly, learners will be introduced to Container management to handle services in a modern infrastructure, and they will practice Installing Red Hat Enterprise Linux. Overall, RH134 is crucial for those seeking practical knowledge in Red Hat Enterprise Linux and aiming to pass the Red Hat Certified System Administrator (RHCSA) exam.

Audience Profile

Red Hat System Administration II (RH134) – RHEL 9 is an advanced course designed to enhance the skills of IT professionals in managing Red Hat Enterprise Linux environments.

- Linux Engineers
- DevOps Engineers
- IT Professionals seeking RHCSA certification
- Network Administrators
- Technical Support Specialists
- IT Professionals with a focus on security
- Storage Administrators
- Database Administrators
- Professionals managing virtualized environments
- Cloud Administrators
- Professionals working with containerization technologies

Course Syllabus

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

Analyse and store logs

Locate and accurately interpret logs of system events for troubleshooting purposes.

Archive and Transfer Files

Archive and copy files from one system to another.

Tune system performance

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

Manage SELINUX security

Protect and manage the security of a server by using SELINUX

Manage basic storage

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

Manage storage stack

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

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 Selniux rules.

Install Red Hat Enterprise

Linux Install Red Hat Enterprise Linux on servers and virtual machines.

Run Containers

Obtain, run, and manage simple, lightweight services as containers on a single Red Hat Enterprise Linux server.