

System Administration II

Duration: 90 Days **Course Code: RH134** **Delivery Method: Elearning (Self-paced)**

Overview:

Build the skills to perform the key tasks needed to become a full-time Linux administrator.

Red Hat System Administration II (RH134) is the second part of the RHCSA training track for IT professionals who have already attended Red Hat System Administration I. The course goes deeper into core Linux system administration skills in the installation and deployment of Red Hat Enterprise Linux, storage configuration and management, management of security features such as SELinux, control of recurring system tasks, management of the boot process and troubleshooting, basic system tuning, and command-line automation and productivity. This course assumes that students have completed Red Hat System Administration I (RH124). Experienced Linux administrators who seek rapid preparation for the RHCSA certification should instead start with RHCSA Rapid Track (RH199).

This course is based on Red Hat Enterprise Linux 10.0.

Following course completion, hands-on lab access will remain available for up to 45 days for any live course that includes a virtual environment.

Note: This course is offered as a five day in person class, a five day virtual class or is self-paced. Durations may vary based on the delivery.

For full course details, scheduling, and pricing, select your location then "get started" on the right hand menu.

e-Learning

Interactive self-paced content that provides flexibility in terms of pace, place and time to suit individuals and organisations. These resources also consist of online books, educational podcasts and vodcasts, and video-based learning.

Target Audience:

System administrators, platform engineers, developers, and other IT professionals who have completed the Red Hat System Administration I (RH124) course, and are seeking to expand their skills in Linux system administration.

Objectives:

- Install Red Hat Enterprise Linux with 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
- Running containers
- Use image mode for RHEL

Prerequisites:

Recommended training

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

Technology considerations

For virtual, self-paced, and classroom learners:

- Internet access is required
- Labs are performed in Red Hat's Online Learning Environment
- For classroom learners, Red Hat may make available in the future a locally installed classroom environment as an alternative.
- RH124 - System Administration I

Follow-on-Courses:

- Red Hat Certified System Administrator (RHCSA) exam (EX200)
 - Red Hat Enterprise Linux Automation with Ansible (RH294)
 - EX200 - Red Hat Certified System Administrator (RHCSA) exam
 - RH294 - Red Hat Enterprise Linux Automation with Ansible
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Content:

Shell Scripting and the Command Line	Create compressed archives of files so that they can be backed up and transferred to other systems.	Managing Network Security
Write and run simple shell scripts, and use shell scripting features to efficiently run commands at the shell prompt.	Transferring Files	Control network connections to services by using the system firewall, and network services that can bind to particular ports by using SELinux.
Using Regular Expressions for Practical Applications	Securely transfer files from one system to another.	Accessing Network-attached Storage
Efficiently complete system administration tasks by using regular expressions to match text.	Tuning System Performance	Access network-attached storage that is provided by using the Network File System (NFS) protocol, either manually or by using the automounter.
Scheduling User Tasks	Improve system performance by setting a tuning profile and by adjusting the scheduling priority of specific processes.	Installing Red Hat Enterprise Linux
Schedule programs to run in the future, either at a specific time and date or on a recurring basis, as a regular user.	Managing Basic Storage	Install Red Hat Enterprise Linux in package mode, either interactively or by using Kickstart.
Scheduling System Tasks	Manage storage devices by creating partitions, file systems, and swap spaces from the command line.	Managing Containers with Podman
Schedule system programs that must run on a recurring basis to support daemons or operating system functions.	Managing Storage with Logical Volume Manager	Manage containers and container images with the latest version of container management tools.
Analyzing and Storing Logs	Use Logical Volume Manager (LVM) to manage logical volumes that can contain file systems and swap spaces.	Working with Image-based Red Hat Enterprise Linux
Locate and interpret system logs for troubleshooting purposes, and ensure accurate timestamps for log events.	Controlling and Troubleshooting the Boot Process	Create, use, install, and upgrade containers and servers that use image-based installation management.
Managing Security with SELinux	Manage how the system boots to control which services start and to troubleshoot and repair boot-time problems.	Comprehensive Review
Protect systems and manage security by using SELinux.	Recovering Superuser Access	Practice skills that you learned in <i>Red Hat System Administration II</i> .
Archiving Files	Gain administrative access to a system when the superuser password is unknown or is locked.	

Additional Information:

Business Outcome Statement

This course is the second of a two-course series that helps a computer professional with minimal Linux experience become a fully capable Linux administrator. This training provides your team members with a solid foundation in Linux system administration, with improved ability to manage your infrastructure efficiently. This course helps system administrators to provide better system reliability, improve efficient system and storage utilization, and respond faster and more accurately to system failures.

Student Outcome Statement

As a result of attending this course, you should be able to perform the key tasks of a full-time Linux administrator. Students are introduced to more advanced administrative topics, such as storage management with LVM, SELinux management, and automated installation. This course goes deeper into enterprise Linux administration, including shell scripting, scheduling tasks, file systems and partitioning, logical volumes, firewall configuration, troubleshooting, tuning system, containers, and image mode.

Further Information:

For More information, or to book your course, please call us on 00 971 4 446 4987

training@globalknowledge.ae

www.globalknowledge.com/en-ae/

Global Knowledge, Dubai Knowledge Village, Block 2A,First Floor, Office F68, Dubai, UAE