

System Administration I

Duration: 90 Days Course Code: RH124

Overview:

Get started building skills to perform the key tasks needed to become a full-time Linux administrator.

Red Hat System Administration I (RH124) is designed for IT professionals without previous Linux system administration experience. The course provides students with Linux administration competence by focusing on core administration tasks. This course also provides a foundation for students who plan to become full-time Linux system administrators by introducing key command-line concepts and enterprise-level tools.

This course is the first of a two-course series that helps a computer professional without Linux system administration knowledge to become a fully capable Linux administrator. These concepts are further developed in the follow-on course, Red Hat System Administration II (RH134).

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 limited Red Hat Enterprise Linux experience but need to perform essential Linux administration tasks on a single server.
- This course is popular in RHA, and is targeted at the student who is planning to become a technical professional using Linux.

Objectives:

- Introduce Linux and the Red Hat Enterprise Linux ecosystem.
- Run commands and view shell environments.
- Manage, organize, and secure files.
- Manage users, groups, and user security policies.
- Control and monitor systemd services.
- Configure remote access by using the web console and SSH.
- Configure network interfaces and settings.
- Manage software by using DNF.

Prerequisites:

Recommended training

Basic familiarity with computer systems as a user. Previous experience as a Linux user or with system administration of other operating systems might be beneficial.

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.

Follow-on-Courses:

Red Hat System Administration II (RH134)

or

RHCSA Rapid Track (RH199)

■ RH135 - Bundle of RH134 Course & EX200 Exam

Content:

Introduction to Red Hat Enterprise Linux	Editing Text Files	Monitoring and Managing Linux Processes
Define and explain the following concepts: open source, Linux, Linux distributions, and Red Hat Enterprise Linux.	Create, view, and edit text files from the command line.	Investigate, control, and terminate processes that run on a Red Hat Enterprise Linux system.
Accessing the Command Line	Redirecting Shell Input and Output	Controlling Services and Daemons
Log in to a Linux system and run simple commands by using the shell.	Redirect the output of commands and input to commands, by using Bash.	Control and monitor the system services and daemons that systemd starts.
Getting Help from Local Documentation	Managing Local Users and Groups	Introduction to Networking
Resolve problems by using information in local help systems and documentation.	Obtain superuser access to a system; create, manage, and delete local users and groups; and administer local password policies.	Describe basic TCP/IP networking concepts and investigate the current network configuration and functionality on a server.
Registering Systems for Red Hat Support	Controlling Access to Files	Managing Network Configuration
Register a system by using your Red Hat account to get support services and software that Red Hat provides.	Set standard permissions on files and interpret the security effects of different permission settings.	Configure network interfaces and settings on Red Hat Enterprise Linux servers.
Getting AI-assisted Help with RHEL Lightspeed	Installing and Updating Software with RPM	Configuring and Securing SSH
Get AI-driven guidance and suggestions to efficiently manage a RHEL server by using Red Hat Enterprise Linux Lightspeed.	Download, install, update, and manage software packages from Red Hat and DNF package repositories.	Protect SSH communication by managing host keys and by implementing key-based authentication for users.
Navigating the File-system Hierarchy	Installing and Updating Applications by Using Flatpak	Comprehensive Review
Describe the organization of files in the Linux file-system hierarchy and specify files by name, by using relative paths or absolute paths.	Install, upgrade, and use desktop software from the Red Hat Ecosystem Catalog by using Flatpak.	Practice skills learned in Red Hat System Administration I.
Managing Files from the Command Line	Accessing Removable Media	
Copy, move, create, delete, and organize files from the command line.	Access file systems on removable media devices by mounting them on a directory in the file-system hierarchy.	

Additional Information:

Business Outcome Statement The administration, configuration, and rapid deployment of Red Hat Enterprise Linux is the foundation for efficient IT infrastructure. This course will build the foundation for new Linux system administrators to integrate Red Hat Enterprise Linux with other existing systems, manage user and group administration, use available storage solutions, and efficiently and securely resolve configuration issues..

Student Outcome Statement This course will help students learn the key tasks to become a full-time Linux system administrator. As a result of attending this course, students should be able to perform essential Linux system administration tasks, including installation, establishing network connectivity, managing physical storage, and basic security administration.

Further Information:

For More information, or to book your course, please call us on Head Office Tel.: +974 40316639

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