System Administration I

Duration: 5 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.
Updated July2025

Company Events

These events can be delivered exclusively for your company at our locations or yours, specifically for your delegates and your needs. The Company Events can be tailored or standard course deliveries.

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.

Objectives:

- 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 as listed below:

- 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:

- 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.

Testing and Certification

-

Follow-on-Courses:

- Red Hat System Administration II (RH134)
- RHCSA Rapid Track course (RH199) - contains subsets of RH124 and RH134
- RH135 - Bundle of RH134 Course & EX200 Exam

Content:

Introduction to Red Hat Enterprise Linux

- Define and explain the following concepts: open source, Linux, Linux distributions, and Red Hat Enterprise Linux.

Accessing the Command Line

- Log in to a Linux system and run simple commands by using the shell.

Getting Help from Local Documentation

- Resolve problems by using information in local help systems and documentation.

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.

Getting AI-assisted Help with RHEL Lightspeed

- Get AI-driven guidance and suggestions to efficiently manage a RHEL server by using Red Hat Enterprise Linux Lightspeed.

Navigating the File-system Hierarchy

- Describe the organization of files in the Linux file-system hierarchy and specify files by name, by using relative paths or absolute paths.

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.

Redirecting Shell Input and Output

- Redirect the output of commands and input to commands, by using Bash.

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.

Introduction to Networking

- Describe basic TCP/IP networking concepts and investigate the current network configuration and functionality on a server.

Managing Network Configuration

- Configure network interfaces and settings on Red Hat Enterprise Linux servers.

Configuring and Securing SSH

- Protect SSH communication by managing host keys and by implementing key-based authentication for users.

Comprehensive Review

Practice skills learned in Red Hat System Administration I.

Additional Information:

Official course book provided to participants.

Further Information:

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

training@globalknowledge.qa

www.globalknowledge.com/en-qa/

Global Knowledge, Qatar Financial Center, Burj Doha,Level 21, P.O.Box 27110, West Bay, Doha, Qatar