RH124 Red Hat System Administration I

Course description

The first of two courses covering the core system administration tasks needed to manage Red Hat Enterprise Linux servers

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

This course is based on Red Hat® Enterprise Linux 8.

Course content summary

- Introduction to the command line
- Managing physical storage
- Install and configure software components and services
- Establish network connections and control firewall restrictions
- Monitor and manage running processes
- Manage and secure files and file systems
- Administer users and groups
- Review the system log files and journal for issues
- Troubleshoot problems and analyze systems with Red Hat Insights
- Remotely manage systems with SSH and the Web Console

Audience for this course

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

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Prerequisites for this course

Basic technical user skills with computer applications on some operating systems are expected.

Outline for this course

Get started with Red Hat Enterprise Linux
Describe and define open source, Linux distributions, and Red Hat Enterprise Linux
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Access the command line
Log into a Linux system and run simple commands using the shell.

Manage files from the command line
Copy, move, create, delete, and organize files while working from the bash shell.

Get help in Red Hat Enterprise Linux
Resolve problems by using local help systems.

Create, view, and edit text files
Manage text files from command output or in a text editor.

Manage local users and groups
Create, manage, and delete local users and groups, as well as administer local password policies.

Control access to files
Set Linux file system permissions on files and interpret the security effects of different permission settings.

Monitor and manage Linux processes
Evaluate and control processes running on a Red Hat Enterprise Linux system.

Control services and daemons
Control and monitor network services and system daemons using systemd.

Configure and secure SSH
Configure secure command line service on remote systems, using OpenSSH.

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

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

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Archive and transfer files
Archive and copy files from one system to another.

Install and update software
Download, install, update, and manage software packages from Red Hat and yum package repositories.

Access Linux files systems
Access, inspect, and use existing file systems on storage attached to a Linux server.

Analyze servers and get support
Investigate and resolve issues in the web-based management interface, getting support from Red Hat to help solve problems.

Comprehensive review
Review the content covered in this course by completing hands-on exercises.