



RH 124 Red Hat System Administration Part I

5 days of training

DESCRIPTION:

Red Hat System Administration I provides a foundation for students wishing to become full-time Linux system administrators by introducing key command line concepts and other enterprise-level tools. These concepts are further developed in the follow-on course, Red Hat System Administration II (RH134).

PREREQUISITES:

There are no formal prerequisites for this course; however, previous operating system administration experience will be very beneficial.

COURSE OBJECTIVES:

Students should be able to demonstrate the following skills:

- Access the command line
- Manage files from command line
- Create, view, and edit text files
- Manage local Linux users and groups
- Monitor and manage Linux processes
- Control services and daemons
- Control access to files with Linux file-system permissions
- Analyze and store log files
- Configure and secure the OpenSSH service
- Install and update software packages
- Access Linux file systems
- Manage Linux networking

COURSE OUTLINE:

Access the command line

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

Manage files from the command line

- Copy, move, create, delete, and organize files from the bash shell prompt.

Get help in Red Hat Enterprise Linux

- Resolve problems by using online help systems and Red Hat support utilities.

Create, view, and edit text files

- Create, view, and edit text files from command output or in an editor.

Manage local Linux users and groups

- Manage local Linux users and groups, and administer local password policies.

Control access to files with Linux file system permissions

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

Monitor and manage Linux processes

- Obtain information about the system, and control processes running on it.

Control services and daemons

- Control and monitor network services and system daemons using systemd

Configure and secure OpenSSH service

- Access and provide access to the command line on remote systems securely using OpenSSH

Analyze and store logs

- Locate and accurately interpret relevant system log files for troubleshooting purposes.

Manage Red Hat Enterprise Linux networking

- Configure basic IPv4 networking on Red Hat Enterprise Linux systems.

Archive and copy files between systems

- Archive files and copy them from one system to another.

Install and update software packages

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

Access Linux file systems

- Access and inspect existing file systems on a Red Hat Enterprise Linux system.

Use virtualized systems

- Create and use Red Hat Enterprise Linux virtual machines with KVM and libvirt.

Comprehensive review

- Practice and demonstrate the knowledge and skills learned in this course.