RH124
Red Hat System Administration I

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 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 takes 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 9.0.

Course content summary

- 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 using the web console and SSH.
- Configure network interfaces and settings.
- Archive and copy files from one system to another.
- Manage software using DNF

Audience for this course

- The primary persona is a technical professional with current or pending responsibilities as a Linux enterprise or cloud system administrator.
- This course is popular in Red Hat Academy, and is targeted at the student who is planning to become a technical professional using Linux.

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.
- **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.
- **Archive and transfer files**
  Archive and copy files from one system to another.
- **Install and update software packages**
  Download, install, update, and manage software packages from Red Hat and DNF 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.

Impact of this training

This course will build the foundation for those learning the key tasks to become a full-time Linux system administrator. As a result of attending this course, you should be able to perform essential Linux system administration tasks, including installation, establishing network connectivity, managing physical storage, and basic security administration.