

Red Hat System Administration I (RH124)

Duration: 5 days

Audience: Professionnel TI

Who is this training for?

This course is intended for a technical professional with current or future responsibilities as an enterprise or cloud Linux system administrator.

Training objectives

- Introduction to Linux and the Red Hat Enterprise Linux ecosystem
- Running commands and viewing shell environments
- Managing, organizing, and securing files
- Administering users, groups, and user security policies
- Controlling and monitoring systemd services
- Configuring remote access using the Web console and SSH
- Configuring network interfaces and settings
- Archiving and copying files from a system to another
- Software Management Using DNF

Summary

This course is for IT professionals who have no experience in Linux systems administration. It provides participants with Linux administration skills, focusing on basic administration tasks while also being a good starting point for individuals who want to become full-time Linux system administrators.

Participants will learn about key command-line concepts as well as business tools. This is the first part of a two-part course that empowers IT professionals who are unfamiliar with Linux system administration to become proficient Linux administrators. These concepts are discussed in the next course, Red Hat System Administration II (RH134).

This course is based on Red Hat Enterprise Linux version 9.0.

Course outline

Getting Started with Red Hat Enterprise Linux

- Describe and define the concept of open source, Linux distributions, and Red Hat Enterprise Linux

Command line access

- Connect to a Linux system and run simple commands using the Shell

File management from the Command line

- Move, create, delete, and organize files from the bash shell

Access Help in Red Hat Enterprise Linux

- Troubleshoot problems using local help systems

Create, view, and edit text files

- Manage text files from command output or text editor

Manage local users and groups

- Create, Manage and remove local users and groups and administer local password policies

File access control

- Set different permission levels on Linux file systems and interpret their security effects

Linux process monitoring and management

- Evaluate and control processes running on a Red Hat Enterprise Linux system

Control services and daemons

- Control and monitor network services and daemons system using systemd

Configure and secure SSH

- Configure Secure Command Line Service on remote systems using OpenSSH

Analyze and save log files

- Accurately locate and analyze system event history for troubleshooting

Networking management

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

File archiving and transfer

- Archive and copy files from one system to another

Installing and updating software packages

- Downloading, installing, updating, and managing software packages from Red Hat and DNF package repositories

Accessing Linux file systems

- Accessing, scanning, and using file systems on a storage system connected to a Linux server

Server analysis and support

- Investigating and resolving issues with the management interface web-based with the help of Red Hat Support

In-depth Review

- Review of this course through hands-on exercises

Approach and methodology

This course emphasizes a hands-on, step-by-step approach, combining focused conceptual lectures with numerous real-world exercises. Learning is focused on performing real-world system administration tasks to support the development of operational skills. The structured progression allows participants to gradually develop their autonomy in Linux administration in a professional context.

Prerequisites

Participants should have basic technical skills in computer applications running on certain operating systems.

Recommendations

- Basics in Linux environment (command line)
- Knowledge of file, user and permissions concepts
- Understanding of the basics of system administration
- Fluency with a terminal environment