

# Red Hat System Administration I (RH124) – RHEL 9

**Duration: 40 Hours (5 Days)**

## Overview

The Red Hat System Administration I (RH124) – RHEL 9 course is an essential training program for those aiming to become skilled in Red Hat Enterprise Linux system administration. This course covers foundational Linux concepts and core administration tasks, guiding learners through 17 comprehensive modules. Participants will gain hands-on experience starting from basic system management, covering File system navigation, Command line usage, User and group management, to more advanced topics like configuring services, securing SSH, handling networking, and managing software packages. The course is designed to help learners become proficient in critical system administration tasks, improve their Troubleshooting skills, and prepare for the Red Hat Certified System Administrator (RHCSA) exam. By the end of the course, participants will have a strong understanding of system administration that underpins the management of Red Hat systems in various enterprise environments.

## Audience Profile

Red Hat System Administration I (RH124) – RHEL 9 is a foundational course for those seeking proficiency in Linux system administration.

- IT professionals new to Linux
- System administrators transitioning from other operating systems
- Junior Linux system administrators
- IT professionals who aim to become Red Hat Certified System Administrators (RHCSA)
- Computer Science/Information Technology students and graduates
- DevOps professionals seeking a deeper understanding of the Linux operating system
- Technical support specialists requiring Linux knowledge
- Network administrators aiming to expand their skill set
- Security professionals who need to administer Linux systems
- Database administrators who manage servers running on RHEL
- Professionals who manage cloud infrastructure and require Linux skills

## Course Syllabus

### 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.

## **Manage networking**

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

## **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.