

Red Hat System Administration I (RH124)

Length: Five (5) Days

Summary: Red Hat System Administration I (RH124) is designed for IT professionals who are new to Linux and require core Red Hat Enterprise Linux skills. Focused on administration tasks that will be encountered in the workplace, this course will actively engage students in task-focused activities, lab-based knowledge checks, and facilitative discussions to ensure maximum skill transfer and retention. In addition, GUI-based tools will be featured to build on the students' existing technical knowledge, while key command line concepts will be introduced to provide a foundation for students planning to become full-time Linux system administrators. By the end of the five-day course, students will be able to perform installation, establish network connectivity, manage physical storage, and perform basic security administration.

Who Should Attend: This course is for Microsoft Windows system administrators who need to quickly learn core Red Hat Enterprise Linux proficiencies. It is also for system administrators, network administrators, and other IT professionals who require proficiency performing core tasks in Linux. Non-Linux IT professionals on the path to becoming full-time Linux system administrators should also attend this course.

Upon completion of this course, students will be able to:

- Install Linux graphically
- Manage physical storage
- Understand the command line
- Install and configure local components and services
- Establish network and secure network services
- Manage and secure files
- Administer users and groups
- Deploy file sharing services

Course Content

UNIT 1: GETTING STARTED WITH THE GNOME GRAPHICAL DESKTOP

- Objective: Get started with GNOME and edit text files with gedit

UNIT 2: MANAGE FILES GRAPHICALLY WITH NAUTILUS

- Objective: Manage files graphically and access remote systems with Nautilus
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UNIT 3: GET HELP IN A GRAPHICAL ENVIRONMENT

Objective: Access documentation, both locally and online

UNIT 4: CONFIGURE LOCAL SERVICES

Objective: Configure the date and time and configure a printer

UNIT 5: MANAGE PHYSICAL STORAGE I

Objective: Understand basic disk concepts and manage system disks

UNIT 6: MANAGE LOGICAL VOLUMES

Objective: Understand logical volume concepts and manage logical volumes

UNIT 7: MONITOR SYSTEM RESOURCES

Objective: Manage memory and CPU utilization

UNIT 8: MANAGE SYSTEM SOFTWARE

Objective: Manage system software locally and using Red Hat Network (RHN)

UNIT 9: GET STARTED WITH BASH

Objective: Understand basic shell concepts, execute simple commands, and use basic job control techniques

UNIT 10: GET HELP IN A TEXTUAL ENVIRONMENT

Objective: Use man and info pages and find documentation in /usr/share/doc

UNIT 11: ESTABLISH NETWORK CONNECTIVITY

Objective: Understand basic network concepts; configure, manage, and test network settings

UNIT 12: ADMINISTER USERS AND GROUPS

Objective: Manage users and groups

UNIT 13: MANAGE FILES FROM THE COMMAND LINE

Objective: Understand Linux filesystem hierarchy; manage files from the command line

UNIT 14: SECURE LINUX FILE ACCESS

Objective: Understand Linux file access mechanisms; manage file access from the GUI and the command line

UNIT 15: ADMINISTER REMOTE SYSTEMS

Objective: Share and connect to a desktop; use SSH and rsync

UNIT 16: CONFIGURE GENERAL SERVICES

Objective: Manage services; configure SSH and remote desktops

UNIT 17: MANAGE PHYSICAL STORAGE II

Objective: Manage filesystem attributes and swap space

UNIT 18: INSTALL LINUX GRAPHICALLY

Objective: Install Red Hat Enterprise Linux and configure the system with firstboot

UNIT 19: MANAGE VIRTUAL MACHINES

Objective: Understand basic virtualization concepts; install and manage virtual machines

UNIT 20: CONTROL THE BOOT PROCESS

Objective: Understand runlevels and manage GRUB

UNIT 21: DEPLOY FILE SHARING SERVICES

Objective: Deploy an FTP server and a web server

UNIT 22: SECURE NETWORK SERVICES

Objective: Manage a firewall; understand SELinux concepts and manage SELinux

UNIT 23: COMPREHENSIVE REVIEW

Objective: Get a hands-on review of the concepts covered throughout the course

