

Red Hat System Administration I (RH124)

Length: Five 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

UNIT 3: GET HELP IN A GRAPHICAL ENVIRONMENT

1. Objective: Access documentation, both locally and online

UNIT 4: CONFIGURE LOCAL SERVICES

2. Objective: Configure the date and time and configure a printer

UNIT 5: MANAGE PHYSICAL STORAGE I

3. Objective: Understand basic disk concepts and manage system disks

UNIT 6: MANAGE LOGICAL VOLUMES

4. Objective: Understand logical volume concepts and manage logical volumes

UNIT 7: MONITOR SYSTEM RESOURCES

5. Objective: Manage memory and CPU utilization

UNIT 8: MANAGE SYSTEM SOFTWARE

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

UNIT 9: GET STARTED WITH BASH

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

UNIT 10: GET HELP IN A TEXTUAL ENVIRONMENT

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

UNIT 11: ESTABLISH NETWORK CONNECTIVITY

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

UNIT 12: ADMINISTER USERS AND GROUPS

10. Objective: Manage users and groups

UNIT 13: MANAGE FILES FROM THE COMMAND LINE

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

UNIT 14: SECURE LINUX FILE ACCESS

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

UNIT 15: ADMINISTER REMOTE SYSTEMS

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

UNIT 16: CONFIGURE GENERAL SERVICES

14. Objective: Manage services; configure SSH and remote desktops

UNIT 17: MANAGE PHYSICAL STORAGE II

15. Objective: Manage filesystem attributes and swap space

UNIT 18: INSTALL LINUX GRAPHICALLY

16. Objective: Install Red Hat Enterprise Linux and configure the system with firstboot
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UNIT 19: MANAGE VIRTUAL MACHINES

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

UNIT 20: CONTROL THE BOOT PROCESS

18. Objective: Understand runlevels and manage GRUB

UNIT 21: DEPLOY FILE SHARING SERVICES

19. Objective: Deploy an FTP server and a web server

UNIT 22: SECURE NETWORK SERVICES

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

UNIT 23: COMPREHENSIVE REVIEW

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

