RH124 Red Hat System Administration I

Course Summary

Description

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.

Objectives

At the end of this course, students will be able to:

- Perform installation
- Establish network connectivity
- Manage physical storage
- Perform basic security administration.

Topics

- Graphical installation of Linux
- Managing physical storage
- Introduction to the command line
- Learning how to install and configure local components and services
- Establishing network and securing network services
- Managing and securing files
- Administrating users and groups
- Deploying file sharing services

Audience

- Microsoft Windows system administrators who need to quickly learn core Red Hat Enterprise Linux proficiencies
- 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

Prerequisites

Previous operating system administration experience is helpful but not required.

Duration

Five days

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Course Outline

I. Get Started with the GNOME Graphical Desktop
- A. Get started with GNOME and edit text files with gedit

II. Manage Files Graphically with Nautilus
- A. Manage files graphically and access remote systems with Nautilus

III. Get Help in a Graphical Environment
- A. Access documentation, both locally and online

IV. Configure Local Services
- A. Configure the date and time and configure a printer

V. Manage Physical Storage I
- A. Understand basic disk concepts and manage system disks

VI. Manage Logical Volumes
- A. Understand logical volume concepts and manage logical volumes

VII. Monitor System Resources
- A. Manage CPU, memory, and disk utilization

VIII. Manage System Software
- A. Manage system software locally and using Red Hat Network (RHN)

IX. Get Started with Bash
- A. Understand basic shell concepts, execute simple commands, and use basic job control techniques

X. Get Help in a Textual Environment
- A. Use man and info pages and find documentation in /usr/share/doc

XI. Establish Network Connectivity
- A. Understand basic network concepts; configure, manage, and test network settings

XII. Administer Users and Groups
- A. Manage users and groups

XIII. Manage Files from the Command Line
- A. Understand Linux filesystem hierarchy and pathnames; manage files from the command line

XIV. Secure Linux File Access
- A. Understand Linux file access mechanisms; manage file access from the GUI and the command line

XV. Administer Remote Systems
- A. Share and connect to a desktop; use SSH and rsync

XVI. Configure General Services
- A. Manage services; configure SSH and remote desktops

XVII. Manage Physical Storage II
- A. Manage filesystem attributes and swap space

XVIII. Install Linux Graphically
- A. Install Red Hat Enterprise Linux and configure the system with firstboot

XIX. Manage Virtual Machines
- A. Understand basic virtualization concepts; install and manage virtual machines

XX. Control the Boot Process
- A. Understand runlevels and manage GRUB

XXI. Deploy File Sharing Services
- A. Deploy an FTP server and a web server

XXII. Secure Network Services
- A. Objective: Manage a firewall; understand SELinux concepts and manage SELinux

XXIII. Comprehensive Review
- A. Get a hands-on review of the concepts covered in this course

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