Hands-On

Red Hat System Administration I

Course Description

Red Hat System Administration I is designed for IT professionals who are new to Linux and require core Red Hat Enterprise Linux skills. Focusing on administration tasks that will be encountered in the workplace, you will be engaged in task-focused activities, lab-based knowledge checks, and facilitative discussions to ensure maximum skill transfer and retention.

You'll use GUI-based tools to build on your existing technical knowledge, and you'll learn key command line concepts that provide a foundation for becoming a full-time Linux system administrator. By the end of this course, you will be able to perform installation, establish network connectivity, manage physical storage, and perform basic security administration.

Students Will Learn

- **Perform installations**
- **Establish network connectivity**
- **Manage physical storage**
- **Perform basic security administration**
- **Use GUI-based tools**
- **Key command line concepts**
- **And more...**

Target Audience

Windows and UNIX programmers who are migrating their programs to Linux
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

Prerequisites

None

Course Outline

1. Getting Started with the GNOME Graphical Desktop

    - Get started with GNOME
    - Edit text files with gedit

2. Manage Files Graphically with Nautilus
    - Manage files graphically
    - Access remote systems

3. Get Help in a Graphical Environment
    - Access documentation locally
    - Access documentation online

4. Configure Local Services
    - Configure the date and time
    - Configure a printer

5. Manage Physical Storage, Part I
    - Basic disk concepts
    - Manage system disks

6. Manage Logical Volumes
    - Logical volume concepts
    - Manage logical volumes

7. Monitor System Resources
    - Manage memory
    - Manage CPU utilization

8. Manage System Software
    - Manage system software locally
    - Manage system software using Red Hat Network (RHN)

9. Get Started with Bash
    - Basic shell concepts
    - Execute simple commands
    - Use basic job control techniques

10. Get Help in a Textual Environment
    - Use man and info pages
    - Find documentation in /usr/share/doc

11. Establish Network Connectivity
    - Basic network concepts
    - Configure, manage, and test network settings

12. Administer Users and Groups
    - Manage users
    - Manage groups

13. Manage Files from the Command Line
    - Linux filesystem hierarchy
    - Manage files from the command line

14. Secure Linux File Access

- Linux file access mechanisms
- Manage file access from the GUI and the command line

15. Administer Remote Systems
    - Share and connect to a desktop
    - Use SSH and rsync

16. Configure General Services
    - Manage services
    - Configure SSH and remote desktops

17. Manage Physical Storage, Part II
    - Manage filesystem attributes
    - Manage swap space

18. Install Linux Graphically
    - Install Red Hat Enterprise Linux
    - Configure the system with firstboot

19. Manage Virtual Machines
    - Basic virtualization concepts
    - Install and manage virtual machines

20. Control the Boot Process
    - Understand runlevels
    - Manage GRUB

21. Deploy File Sharing Services
    - Deploy an FTP server
    - Deploy a web server

22. Secure Network Services
    - Manage a firewall
    - SELinux concepts
    - Manage SELinux

23. Comprehensive Review

Delivery Method

Instructor-Led with numerous Hands-On labs and exercises.

Equipment Requirements

(This apply's to our hands-on courses only)

BTS always provides equipment to have a very successful Hands-On course. BTS also encourages all attendees to bring their own equipment to the course. This will provide attendees the opportunity to incorporate their own gear into the labs and gain valuable training using their specific equipment.

Course Length

5 Days