

Course Outline: RH033_ Red Hat Linux Essentials

Learning Method: Instructor-led Classroom Learning

Duration: 5.00Day(s)/ 40 hrs

Overview:

An introduction to fundamental end-user and administrative tools in Red Hat Enterprise Linux, designed for students with little or no command-line Linux or UNIX experience.

Who Should Attend:

IT professionals who want to build user-level skills before learning Linux System and Network Administration.

At Course Completion:

A power user or junior administrator who can effectively install, use and perform basic configuration of a Red Hat Enterprise Linux system.

Outline

Unit 1 - Linux Ideas and History

- An Introduction to Linux and Open Source: what are the central ideas behind the Linux phenomenon and where do they come from?

Unit 2 - Linux Usage Basics

- Logging into the system, changing users and editing text files.

Unit 3 - Running Commands and Getting Help

- How to use built-in and online documentation to enhance your experience.



Unit 4 - Browsing the Filesystem

- Understanding the locations of important directories on a Red Hat Enterprise Linux system and navigating them from the command line and using the graphical Nautilus browser.

Unit 5 - Users, Groups and Permissions

- Reading and setting permissions on files and directories.

Unit 6 - Using the bash Shell

- Basic tips and tricks to make Red Hat Enterprise Linux's default shell work for you. Topics include tab completion, history and an introduction to shell scripting.

Unit 7 - Standard I/O and Pipes

- The ins-and-outs of redirecting output between programs and files.

Unit 8 - Text Processing Tools

- An introduction to some of the most useful text-processing utilities in Red Hat Enterprise Linux, including grep, cut, sed, sort, diff and patch.

Unit 9 - vim: An Advanced Text Editor

- How to get the most out of the powerful and flexible vim text editor.

Unit 10 - Investigating and Managing Processes

- Listing, terminating and scheduling program executions on a Red Hat Enterprise Linux system.



Unit 11 - Basic System Configuration Tools

- Using Red Hat Enterprise Linux's graphical and text-based configuration tools to manage networking, printing and date/time settings.

Unit 12 - Finding and Processing Files

- In-depth coverage of using the find command and related utilities to locate and act upon files based on arbitrary criteria .

Unit 13 - Network Clients

- An overview of network tools available in Red Hat Enterprise linux, from web browsers to email clients and diagnostic utilities.

Unit 14 - Advanced Topics in Users, Groups and Permissions

- A deeper discussion of how user and group identities are stored on a Red Hat Enterprise Linux system, as well as the introduction of advanced filesystem permissions like SetUID and SetGID.

Unit 15 - The Linux Filesystem In-Depth

- The nuts-and-bolts of how Red Hat Enterprise Linux deals with filesystems. Topics include partitions, inodes, linking and archiving tools.

Unit 16 - Essential System Administration Tools

- An introduction to fundamental system administration topics such as installing Red Hat Enterprise Linux, managing software packages, and enhancing security with SELinux and the netfilter firewall.

Unit 17 - So... What Now?

- Exposure to further options for training and involvement in the larger open-source community.



