"Charting the Course ...

... to Your Success!"

RH033 Red Hat Linux Essentials for Windows and other Operating Systems Course Summary

Description

This course is designed for students who have no command-line experience in Linux or UNIX and need to move into a position where they can accomplish fundamental end-user and administrative tasks on a Red Hat Enterprise Linux system.

Topics

- Linux Ideas and History
- Linux Usage Basics
- Running Commands and Getting Help
- Browsing the File System
- Users, Groups and Permissions
- Using the bash Shell
- Standard I/O and Pipes
- Text Processing Tools
- vim: An Advanced Text Editor
- Basic System Configuration Tools

- Investigating/Managing Processes
- Configuring the Bash Shell
- Finding and Processing Files
- Network Clients
- Advanced Topics in Users, Groups and Permissions
- The Linux File system In-Depth
- Essential System Administration Tools
- So...What Now?

Prerequisites

Students should have user-level experience with any computer system, including: use of mouse, use of menus and use of any graphical user interface.

Duration

Five days



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RH033 Red Hat Linux Essentials for Windows and other Operating Systems Course Outline

I. Linux Ideas and History

- A. An Introduction to Linux and Open Source
- B. What are the central ideas behind the Linux phenomenon and where do they come from

II. Linux Usage Basics

- A. Logging into the system
- B. Changing users
- C. Editing text files

III. Running Commands and Getting Help

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

IV. Browsing the File System

- A. Understanding the locations of important directories
- B. Navigate them from the command line
- C. Use the graphical Nautilus browser

V. Users, Groups and Permissions

 A. Reading and setting permissions on files and directories

VI. Using the bash Shell

- A. Tab completion
- B. History
- C. Introduction to shell scripting

VII. Standard I/O and Pipes

A. Ins-and-outs of redirecting output between programs and files

VIII. Text Processing Tools

- A. Grep
- B. Cut
- C. Sed
- D. Sort
- E. Diff
- F. Patch

IX. vim: An Advanced Text Editor

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

X. Basic System Configuration Tools

- A. Manage networking
- B. Manage printing
- C. Mange date/time settings

XI. Investigating/Managing Processes

- A. Listing program executions
- B. Terminating program executions
- C. Scheduling program executions

XII. Configuring the Bash Shell

A. Using shell variables and scripts to customize the command-line environment

XIII. Finding and Processing Files

 Using the find command and related utilities to locate and act upon files based on arbitrary criteria

XIV. Network Clients

A. Overview of network tools available from web browsers to email clients and diagnostic utilities

XV. Advanced Topics in Users, Groups and Permissions

- A. SetUID
- B. SetGID.

XVI. The Linux Filesystem In-Depth

- A. Partitions
- B. linodes
- C. Linking tools
- D. Archiving tools



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RH033 Red Hat Linux Essentials for Windows and other Operating Systems Course Outline (cont'd)

XVII. Essential System Administration Tools

- A. Installing Red Hat Enterprise Linux
- B. Managing software packages
- C. Enhancing security with SELinux and the netfilter firewall.

XVIII. So... What Now?

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