

Linux Essentials

Overview

This course is designed for Windows Professionals and other Operating System Users. It is ideal for IT professionals who want to build user-level skills before learning Linux System and Network Administration. An introduction to fundamental end-user and administrative tools in Red Hat Fedora Linux,

Course Content

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 & 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 an Enterprise Linux system, 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 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 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 - Basic System Configuration Tools

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

settings.

Unit 11 - Investigating and Managing Processes

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

Unit 12 - Configuring the Bash Shell

A discussion of using shell variables and scripts to customize the command-line environment.

Unit 13 - 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 14 - Network Clients

An overview of network tools available in Enterprise linux.

Unit 15 - Advanced Topics in Users, Groups and Permissions

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

Unit 16 - The Linux Filesystem In-Depth

How Enterprise Linux deals with filesystems. Topics include partitions, inodes, linking and archiving tools.

Unit 17 - Essential System Administration Tools

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

Unit 18 - So... What Now?

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

PFH Technology Group

Duration:

Cost:

Format: Instructor led

Prerequisites

User-level experience with any computer system, including use of menus and use of any graphical user interface.

PFH Technology Group

Cork | Galway | Dublin
www.pfhtraining.ie

Phone:

Cork: 021 230 3010 / 021 230 3040

Galway: 091 500 560

E-mail: training@pfh.ie