Linux Training: The Complete Linux Course (LIN301X, 4 jours)

Description

The course The Complete Linux Course (Linux Training) is like no other course you have ever taken. This complete Linux course provides a hands-on exploration of the planning, installation, maintenance, management and use of Linux in a production environment. You acquire the skills required to understand the hardware & software aspects of a Linux installation. The discussion includes the kernel, shell commands, security, scripting & system configuration on a production Linux environment. Participants will learn how to create scripts, manage users & groups, and to configure security to count only a few.

Tarifs

- Tarification: \$3,750/person
- Rabais de 10% lorsque vous inscrivez 3 personnes.

Plan de cours

Linux Overview

History and Fundamentals of Linux

Understanding the Linux Architecture

The Linux Kernel

The Linux Boot Process

Understanding the init Process

Beginning and Ending a Linux Session

The Linux File System

Introduction to the File System

Files, Directories and Commands

The home and root Directories

Understanding Linux Files and Directories

Working with Directories

System Directory Structure

Navigating the File System

Linux Configuration Files

Working with vi/vim

What is vi/vim

vi Modes

Navigation within vi/vim

Data Manipulation - Insert Text

Data Manipulation - Delete Text

Data Manipulation - Create Blank Lines

Data Manipulation - Cut/Copy/Paste

Data Manipulation - Buffering

Data Manipulation - Modify Text

Data Manipulation - The Undo/Redo Option

Data Manipulation - Save/Abort Work

Data Manipulation - Search Text

Reading, Writing and Appending Files

Some vi Tips/Tricks

Customize vi Work Environment The vim Environment Users and Groups The Linux Users/Groups Security Architecture Defining and Working with Users The /etc/passwd file The /etc/shadow file The /etc/group file Managing Users Accounts Manually **User Management Commands** Debian User Management Tools File System Management Understanding inodes **Block and Character Devices Understanding Disk Devices** File Systems Management Configuring a Block Device Formatting Disks **Managing Mount Points Tuning Disks** Linux Security The Security Architecture The root and Super User About User Accounts and User Groups Changing Permissions plus Special permissions **Advanced Security** Controlling Processes and Jobs **Controlling Linux Services Managing Processes** Job Control Services and Daemons **Linux Shell Scripting About Scripting Options BASH Scripting Basics Understanding Wildcards (Metacharacters)** Understanding stdin/ stdout/ stderr Understanding the Shell **Regular Expressions** Variables **Conditional Statements** Loops/Flow Control Customize the User Environment A Few Interesting Scripts **BusyBox Shell** Networking **TCP-IP** Overview **Configuring Network Adapters** Linux Wireless Network **Using Remote Commands** Windows/Linux Interoperability

Internet Services	
Network Security	
Some Common Network Commands	
Installation, Startup and Shutdown	
Preparing For and Planning the Installation	
Installing Fedora	
System Initialization	
Kernel Parameters	
Linux Configuration Files	
Shutdown Techniques and Options	
Working in Single User Mode	
Linux Disks and Partitions	
Linux Disk Architectures	
About Disk Management	
Planning Disk Requirements for a Linux Installation	on
Understanding Linux Platforms	
Planning for Linux Partitions	
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Auditing and the Audit Log	
The Log Files	
lastlog File	
The utmp and wtmp Files	
The last Program	
The loginlog File	
The acct/pact Process Accounting File	
Backup Your Logs!	
Embedded Linux	
About Embedded Linux	
Embedded Linux installation and Tools	
Flash Memory	
The Start-up Process in an Embedded System	
Use of Memory in an Embedded System	
External Storage in an Embedded System	
Troubleshooting Methodologies	
Linux/Unix Utilities	
Troubleshooting Linux Start-up	
Troubleshooting Files and Directories	
Troubleshooting Security	
Troubleshooting Network Services	
Troubleshooting Wireless Network	
The GUI Tools The KDE Desktop	
System Tools	
The GNOME Desktop Environment	
Using YAST	
A Few Power Tools	
A rew rower roots	

Packages and Installation
Installing Applications
Appendix B - Additional vi/vim Information
vi Cheat Sheet
vi Quick References
Appendix C - grep/egrep Reference
The grep Family
Some grep Options/Switches
Appendix D - Regular Expression
Before Regular Expression Usage
Regular Expressions
Some Advanced Generic Regular Expression Functionalities
Appendix E - The find Utility
Searching Files by Name and other Attributes
xargs command with/without find
Appendix F - Useful Tips and Tricks
Maximizing Linux Commands Functionalities
Archiving and Compression
Networking
Set/ Math Operations
Calendar/ Locales
Disk Space
Monitoring/ Debugging
System Information