

Curso Fundamentals of Linux

Descripción: Este curso proporciona los conocimientos y habilidades necesarias para iniciarse en el uso del Sistema Operativo Linux. En este curso aprenderás a usar los comandos de usuario de Linux y a desarrollar shell scripts.

Audiencia: Usuarios finales y programadores que se inician en el uso del ambiente operativo de Linux.

Prerrequisitos: Ninguno

Duración: 30 horas

Contenido

1.- Getting Started

- What is UNIX?
- A Brief History of UNIX
- Linux
- The Toolkit Philosophy
- Linux Distributions
- Free Software and Open Source Movements
- Logging In
- Logging Out
- Try a Few More Commands
- Changing Your Password
- Online Documentation - man Pages
- Online Documentation - info Pages

2.- The File System - Files

- What is a File?
- The ls Command
- The cat Command
- The more and less Commands
- The head and tail Commands
- Copy, Rename, and Delete: cp, mv, rm
- File Names
- Working with MS-DOS Disks; mtools

12.-Using the Shell

- What is a Shell?
- The Command Line
- Standard Input, Standard Output and Error
- Using Default Standard In and Output
- I/O Redirection
- I/O Redirection - Examples
- I/O Redirection - Warning
- Appending Output of a File
- Pipes
- The tee Utility

13.-Filename Generation

- Filename Generation
- The ? Special Character
- The * Special Character
- The [] Special Characters
- The ! Special Character

3.-The File System - Directories

- Hierarchical File System
- Pathnames
- The pwd and cd Command - Navigating Directories
- The mkdir and rmdir - Managing Directories
- The cp Command (again) - Copy Files
- Two Useful Directory Names - . and .

4.-Text Editors

- Linux Text Editors
- The pico Editor
- The Nedit Editor
- The Emacs Text Editor
- The vi Text Editor Family

5.-Editing With vi

- What is vi?
- Getting Started - vi Buffering
- Command Mode and Insert Mode
- Getting Started
- Moving the Cursor Around
- Inserting Text
- Deleting a Character or Line
- Undo Last Command
- Opening a New Line
- Save Your Work or Abort the Session
- Review of vi Commands

6.-Personal Utilities

- The date Utility
- The bc Utility
- The cal Utility
- The id Utility
- The uname Utility
- The finger Utility
- The script Utility
- The clear Utility
- The at and crontab Utilities

14.-Processes

- What is a Process?
- Process Structure
- The ps Utility
- Options to the ps Utility
- Background Commands (&)
- Killing Background Processes
- Redirecting the Standard Error

15.-Shell Programming Concepts

- What is a Shell?
- Which Shell?
- What is a Shell Script?
- Why Use Shell Scripts?

16.-Flow Control

- The Exit Status of Commands
- Command Line Examples
- The test Command
- The if-then-else Construct
- The elif Construct
- A Loop Example

17.-Variables

- User Created Variables
- The read Command
- The Shell Environment
- The export Command
- Subshells
- Command Substitution
- Quoting Mechanisms
- Assigning Variables - Summary

7.-Text Handling Utilities

- The grep Utility
- The tr Utility
- The cut Utility
- The sort Utility
- The wc Utility
- The diff Utility
- The lpr Utility

8.-File System Security

- File Permissions
- The chmod Utility
- Directory Permissions
- The umask Command
- The chown, chgrp, and su Commands

9.-File System Management Utilities

- The find Utility
- The df Utility
- The du Utility
- Compressing Files
- The ln Utility
- The ulimit Utility
- The tar Utility

10.-Communication Utilities

- The write and talk Utilities
- The mesg Utility
- Mail Overview
- The mail Utility
- Other Email Options
- IRC: Internet Relay Chat

11.-Networking Utilities

- Remote Login with telnet
- Remote File Transfer With ftp
- Secure Login With ssh
- Secure File Transfer With scp
- Text-Based Web Access with lynx
- Web Access with wget and curl
- Samba Server Overview
- The smbclient Utility
- NFS File Sharing Overview

18.-Special Variables

- Command-Line Arguments
- \$# - Number of Arguments
- The shift Command
- \$* - All Arguments
- \$\$ - PID of Shell

19.-More Flow Control

- The for Loop
- The while Loop
- The case Construct

20.-X Windows and Desktops

- The X Window System
- Using X
- Window Managers and Desktops
- The Gnome Desktop
- The KDE Desktop
- Applications: The GIMP
- Applications: OpenOffice
- Applications: Web Browsers

Duración aproximada:

30 horas

Lugar:

Altadena 26. Col. Nápoles, México, D .F.

Incluye:

Material original del curso en inglés técnico, estacionamiento y servicio de cafetería.

Nota:

El material que se entrega está en inglés técnico.

DCInternet

Formas y condiciones de pago:

Para la inscripción, aplicación de los descuentos y aseguramiento de que el diplomado se impartirá en las fechas pactadas se requiere el pago anticipado 2 semanas antes de la fecha de inicio con depósito o transferencia bancaria a la siguiente cuenta:

- Depósito en Banamex cuenta 4923239 Suc. 575 a nombre de Desarrollo y Capacitación en Internet, S. A. de C. V. (CLABE en caso de transferencia electrónica vía Internet 002180057549232394)
- cheque a nombre de Desarrollo y Capacitación en Internet, S. A. de C. V.