

LINUX:

Linux is that the well-known and most-used open source OS. As an OS, Linux is software which sits underneath all the other software on a computer, receiving requests from those programs and relaying these requests to the hardware.

Linux is a very well-known Operating System used in server, desktop and mobile computing. Linux platform is that the first option to host Database, Email, Applications and Web. Most of the planet class companies are running on Linux like Google, Facebook, Wikipedia, Yahoo, Amazon etc...

The Linux OS comprises several different pieces:

- **Boot loader** – The software that manages the boot process of computer.
- **Kernel** – The kernel is that the core of the system and manages the CPU, memory, and peripheral devices. The kernel is lowest level of the OS.
- **Init system** – This is often a sub-system that bootstraps where the user space and is charged with controlling daemons. One among the foremost widely used Init systems is system
- **Daemons** – These are background services (printing, sound, scheduling, etc.) that either start up during boot or after you log into the desktop.
- **Graphical server** – This is often the sub-system that displays the graphics on your monitor.
- **Desktop environment** – This is often the piece that the users actually interact with each desktop environment includes built-in applications (such as file managers, configuration tools, web browsers, and games).

- **Applications** – Desktop environments don't offer the complete array of apps. A bit like Windows and macOS, Linux offers thousands upon thousands of high-quality software titles which will be easily found and installed.

Course Content:

Introduction to Linux:

- What is Linux?
- Then what is UNIX?
- A Graphical View of Unix History
- Brief Linux History
- Linux System Construction
- Comparing Linux to Unix
- Comparing Linux to Windows/DOS
- Various Linux Distributions
- Common Linux Resources

Installing Linux:

- Hardware Requirements
- What You Need Before Installing

- The Install Process

Getting Started:

- Logging In
- Basic Linux Commands
- Using Online Help
- Restarting and Shutting Down Linux

The X Window System:

- Overview of the X Window System
- Configuring X to Start Manually
- Starting X Manually
- Starting X Automatically
- Working with Windows and Menus

Customizing the X Interface:

- Adding/Removing Shortcuts Modifying the Gnome Panel The Shell Environment
- Kernel/Shell Relationship

- Types of Shells
- Getting to a Command Prompt
- Executing a Shell
- Changing the Default Shell
- Variables
- The Shell as a Programming Environment

The Bash Shell:

- The Home Directory
- Start-up Files
- Variables Revisited
- Accessing Previous Commands-History
- Command Completion
- Colors in a Command Line

Linux Commands:

- Shell Command Syntax
- The MESH Command

- Writing Active Users
- Printing Files
- Defining and Creating Aliases

The Linux File System:

- The Linux File System Standard (FSSTND)
- File System Structure
- Linux Directory Structure
- Navigating from the Command Line
- Viewing Files/Directories in X
- Viewing Files/Directories from the Command Line
- Using Wildcard Characters

Redirection and Pipes:

- Standard Input and Output
- Standard Output Redirection
- Standard Input Redirection
- Simultaneous Redirection
- Pipes

Organizing Files:

- The Touch Command
- Creating Directories
- Deleting Files and Directories
- Copying and Moving Files and Directories
- Moving and Renaming
- Creating Links to a File
- Organizing Files and Directories in X

File/Directory Permissions:

- What are Permissions?
- The CHMOD Command
- The UMASK Command
- The CHOWN Command
- Changing Permissions in X

Working with Applications and Packages:

- Installing: The Traditional Unix Method

- Installing: The Linux Package Method (RPM)

Working with Text Documents and Editors:

- Viewing and Editing Text Files in X
- Viewing Text Files from the Command Line
- Editing Text Files from the Command Line

Using the Pico Editor:

- The VIM Editor
- Deleting and Changing Text
- Using Floppies and CDs
- Mounting/Unmounting File systems
- M tools
- Auto mounting in X
- Power User Utilities
- Regular Expressions
- Wildcards
- Locating Files from the Command Line
- Locating Files from Within X

- The GREP Command
- Determining Disk Usage
- The WC Command
- The SORT Command
- The UNIQ Command

Network Utilities:

- The Control Panel – Network Configuration
- Networking Commands from the Shell
- The /ETC/Hosts File

Process Management:

- Listing Processes from Within Gnome
- Listing Processes from the Command Line
- Killing Processes from Within Gnome
- Killing Processes from the Command Line
- Background Mode Operation



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