

Linux Operating System

Course Overview

This is a beginners' guide to the **Unix** and **Linux** operating system. The tutorials cover the basics of UNIX / Linux commands and networking process in linux.

Course Contents

Module 1: Introduction of Linux

- Introduction to Linux
- How Linux is different
- Software license scheme
- Principle of Linux
- Basic commands
- Assignment

Module 2: Linux Installation and Configuration

- Define packages
- Installing package from command line
- Update/Remove packages
- Installing Linux
- Assignment

Module 3: Running Commands and Getting Help

General syntax of commands

Commands related with files and directory

Informal commands

Some other commands

Date time and calendar

Getting help

Assignment

Module 4: Browsing File System

- Linux file hierarchy
- Color codes
- Files and directories
- Working with directory
- Moving/ renaming files and directory
- Copying files and directory
- Removing files and directory
- Assignment

Module 5: User, Groups and Permission

- User
- Group
- Getting user information
- Permission
- Unmask
- Assignment

Module 6: Standard I/O Device and Channels

- Linux I/O channels
- Redirection operator
- tr-command
- Pipelining
- Assignment

Module 7: Text Manipulation

- Text processing tools
- Vim text editor
- Assignment

Module 8: Filesystem in Depth

- Partition and filesystem
- Journaling filesystem
- Hard links and soft links
- Checking free space
- Mounting CDs and DVDs
- Mounting USB media
- Archiving files and directory
- Assignment

Module 9: Linux Networking Configuration

Configuring Linux networking.

Starting network

Stopping network

IP information

Host information

Ping

Assignment