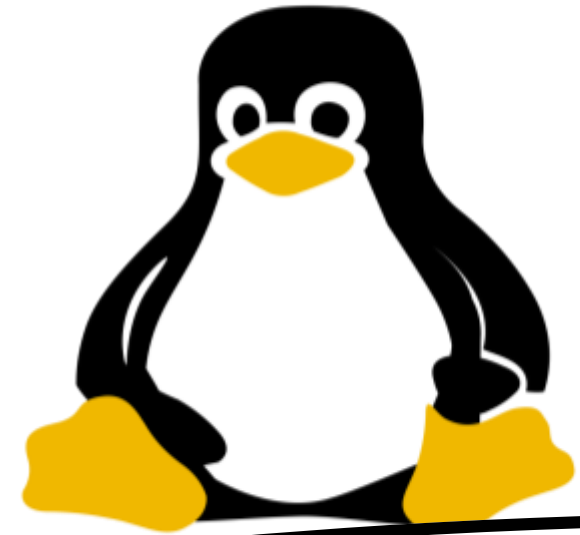




WISDOMTRIBES

ALL IN ONE SOLUTION

Linux™



Unix Linux Course

- WISDOMTRIBES
- Website: www.wisdomtribes.com
- [Mail: wisdomtribes23@gmail.com](mailto:wisdomtribes23@gmail.com)
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UNIX LINUX Course Overview

Training Course Duration

- 25 Working days, daily one and half hours

Training Course Objectives

(1) manage the computer's resources, such as the central processing unit, memory, disk drives, and printers, (2) establish a user interface, and (3) execute and provide services for applications software

Training Course Prerequisites

- You have little knowledge about Operating System and its functionalities. A basic understanding on various computer concepts.

Unix Training Content

- Introduction to UNIX/LINUX
- History of UNIX/LINUX
- Features and Benefits of UNIX/LINUX
- Different flavors of UNIX/LINUX
- Difference between UNIX, DOS, Windows and LINUX
- Architecture of UNIX

File System of UNIX

- Ordinary Files
- Directory Files
- Device Files
- The Structure of UNIX File system

UNIX File System Architecture

- Boot Block
- Super Block
- Inode Block
- Data Block

Different UNIX Commands

- pwd, who, whoami
- exit, date, cal, exit, banner

Links

- Hard Link
- Soft link or Symbolic Link
- Unlink

Complex Filters

- tr, comm., tee, sed, nl

Working with Files

- cat, touch, rm
- cp, mv, ln, wc

Working with Directories

- mkdir, cd, rmdir, rm

Displaying Files

- ls, ls with options

Simple Filters

- pg, more, less, head, tail, paste, cut, sort

Zip Files

- gzip, gunzip, zcat, compress
- Uncompress, pack, unpack and Pcat

Printing Files

- lp, cancel

Finding Files

- find, locate etc.,

Input and Output Redirection

- Redirecting Output
- Redirecting Input
- Standard error

Shell Meta Characters

- File substitution
- I/O redirection
- Process Execution
- Quoting meta characters
- Positional parameters
- Special Parameters

More Filters

- grep, grep with options
- fgrep, egrep

Regular Expressions and Patterns

- What is Pattern?
- Usage of regular expression
- Different types of patterns

How C programs are useful for solving problems in UNIX

➤ UNIX Commands

- Uniq
- Diff
- cmp

➤ Backup Utilities

- tar, cpio

➤ Piping

- Usage of piping
- Piping with filters

➤ File Permissions

- chmod, chown, chgrp, umask

Communication Commands

- write, wall, mail, mail with options

➤ Networking commands

- telnet, ftp, rlogin, finger, etc..

➤ Disk Utilities

- df, du, mount, unmount

➤ Job Control

- Foreground jobs
- Background jobs
- Killing jobs
- Nohup

➤ Process Status

- Ps
- Kill
- Pkill

➤ Job scheduling

- At
- Crontab
- Batch

➤ ed, ex and vi editors

- Command mode
- Insert mode
- Ex command mode

➤ Shell Scripting

- What is shell scripting?
- Importance of shell scripting
- Different types of shells
- Creating Shell script
- Making shell script executable

➤ Shell Input and Output

- echo, print, read

➤ Backslash character constants aliases and History concept variables

- What is a variable?
- System defined variables
- Environment Variables
- User defined variables
- Constant variables
- Local and Global variables
- Special Variables
- Comments

➤ Operators

- Arithmetic Operators
- Relational Operators
- Relational ASCII operators
- Logical Operators
- Assignment Operators

Ø Flow Control Structure

- If, if....else
- If... elif
- Case

➤ Looping

- while, until, for, break, continue

➤ Formatted I/O

➤ Namespaces in UNIX

➤ Introduction to Message Queues

➤ Introduction to Different Types of System Calls

➤ Programming Aspects of Berkeley Sockets & Reserved Ports

➤ UNIX Domain Protocol

➤ Socket Addresses