



LINUX Course Content:35-40hours

Course Outline

Introduction

- Introduction to UNIX
- UNIX Operating System Architecture
- Linux Operating System
- Users, Groups and Permissions
- Examining Permissions

Installation

- Linux Installation
- Partition of Hard Disk
- Linux File System
- ext2 / ext3
- Dual Boot Installation
- Desktop Familiarization
- Text and GUI Mode
- Virtual Terminals
- GNOME and KDE Desktop

Commands

UNIX Shell

UNIX Commands

Shell Commands

- File System Management
- File Viewing and Management



- Process Management ,Help and Job
- Network Management
- System Management
- User Management
- Printing and Programming
- Document Preparation

- System Initialization and Services
- Boot Sequence, Run levels
- User Administration
 - User Creation/ Suspension & Deletion
 - Group Administration

- Network Configuration
- Configuration Utilities
- Multiple NICs
- Task Schedulers
- Disk quota management
- Backup and Restore
- Adding and Removing Software Packages
- RPM Package Management

Setting Printer

System Monitoring

- File System Analysis
- System Log Files & Analysis

System Troubleshooting

- File system Corruption and Recovery

About DHCP NIS & NFS

DHCP

- Server setup
- Client setup

NIS

- NIS Server setup
- NIS Client setup

NFS

- NFS Server & Client configuration

Samba Server

- File & Print Service

About DNS

- Basics of DNS
- Implementation of BIND
- forward & reverse lookup
- DNS Directives

SERVER

- Apache Web Server
- Basic Configuration
- Name based Virtual Hosting
- Send mail & Mail Server
- Configuring mail service
- SMTP Server
- POP3 / IMAP Server
- Proxy Server - Squid
- ACL for restricting access
- Linux System as a Router
- Setup and configuration
- Static Routing
- Firewall Using IP Tables
- Filter and NAT rules