

LINUX

This course will cover all aspects of Linux Certification. At the end of the course delegates will have the skills required to administer a Linux System. The course will also cover Internet application server configuration on live registered domain name with valid public IP addresses. The training will be given by Senior System / Network engineers with several years of industry experience.

Course Outline

- Introduction to UNIX & LINUX
- Files and Directories Management
- User and Group Administration
- Basic File Permissions
- Disk Partitioning and Mounting File System
- RAID (Redundant Array of Inexpensive Disks)
- Data Backup and Recovery
- Software Package Administration
- Dynamic Host Configuration Protocol (DHCP)
- FTP Server (vsftpd daemon)
- Network File System (NFS)
- DNS Server
- Web Server (Apache)



LINUX
Linux Essentials
System Administration
Network
Administration

Course Curriculum

Introduction to UNIX & LINUX

- History of UNIX and LINUX
- Differences between CentOS, Red Hat Enterprise Linux & Fedora
- FHS and Linux Installation

Files and Directories Management

- Creating files using cat and touch commands
- Creating directories using mkdir command
- Modifying file content using vi / vim editors

User and Group Administration

- Creating and deleting users from the systems
- Creating and deleting groups

Basic File Permissions

- Verifying file permissions of existing objects
- Modifying files permissions using chmod command

Disk Partitioning and Mounting File System

- Creating partition using fdisk command
- Formatting the partitions
- Mounting the partitions

RAID (Redundant Array of Inexpensive Disks)

- Implementing RAID on Linux
- RAID levels (0, 1 and 5) configuration using RAID tools

Data Backup and Recovery

- Taking data backup using tar command

Software Package Administration

- Installing and deleting software packages

using RPM & YUM

- Querying and updating software packages

Dynamic Host Configuration Protocol (DHCP)

- Configuring Linux as DHCP Server
- Configuring various clients for DHCP Server (Windows & Linux)

FTP Server (vsftpd daemon)

- Basics of File Transfer Protocol
- Configuring FTP protocol to download and upload the files

Network File System (NFS)

- Configuring NFS file sharing server
- Mounting NFS shared folder from client systems

DNS Server

- Configuration of DNS server
- Configuration of forward lookup zone
- Configuration of reverse lookup zone
- Testing tool of DNS zones

Web Server (Apache)

- Basics of Web Service
- Introduction to Apache
- Configuring Apache to host website