

Linux System and Network Administration Course Outline

Topics No	Class No.	Topic	Discussion
01	Class-01	Linux Introduction	Unix System, Operating System concepts, kernel, Linux Distributions and Versions, Linux Command Line, Basic Commands
02	Class-02	Getting Started with Linux Installation	Disk Space, Partition Type, File Type, Password, Steps of Installation, Boot Loader, Package selection, X windows.
03	Class-03	Managing User Accounts and passwords	Add/delete/lock/disable users and passwords, password and shadow file details, root password type, password encryption, Grub password and total system password, password break
04	Class-04	Work Effectively on the Unix Command Line and Run level concept	Man, version, history, logout, editor, seven run levels, Creating Archives with tar, untar,
05	Class-05	File and Directory details	File and Directory create, delete, move, pwd change,
06		File and Directory Permissions	User, group and other permissions in a file, directory, UID, GID, STICKY BIT in a file & directory and their effects.
07		Ownership and Group details	Change ownership, group change, group delete, add/remove a user from a group.
08	Class-06	Visual editor "vi" and other details	Vi editor details, pipe, redirect, search, monitor and kill process, modify process execution priorities,
09	Class-07	Details about mounting and RPM	Package install by yum/rpm, Linux kernel update by yum/rpm, dmesg, link, mount, umount, query and uninstall packages
10	Class-08	Hard disk space and Quota system, Job schedule	Quota creates, on, off assign, Cron jobs, crontab linux, and server data backup by crontab.
11	Class-09	RAID, LVM, Boot and Grub Level	Raid in unix system and then linux, Raid partition create, delete,, data backup by raid system, LVM create, delete, extend, reduce etc. Kernel update, delete, extend, boot loader problem, kernel panic in Linux system.
12	Class-10	Linux System Administration	IP and Subneting, gateway, IP setup, ping, traceroute, mtr, mii-tool, network check, manage RPM and YUM in