

Linux Admin :- 20 days – 20hrs

- Introduction
- Linux on Desktop
- Installing a Linux Server
- Hardware detection and installing necessary drivers
- Linux installation, disk partitioning, dual booting
- add/remove applications
- Compiling with source codes and rpms
- Installing only the necessary components with and without X-Windows
- Administrating Linux
- Advanced bash/shell commands
- Text editing with vi/vim
- User & group management
- Assigning and revoking privileges
- Disk management & quotas
- Archiving compressing & backing up files
- Automation using cron
- Shell Scripting
- Perl Scripting
- Linux Networking
- Assigning IP addresses with Variable Length Subnet Masking (VLSM)
- Assigning IP's using DHCP
- Network troubleshooting with ping, trace route & tcpdump
- Routing in Linux
- Setting up a DHCP Server
- Introduction to DHCP
- Setting up a DHCP server
- Setting up a DNS Server
- Introduction to DNS
- Installing & configuring BIND

- Adding/updating/deleting DNS records, reverse DNS
- Securing DNS
- Setting up a Web Server
- Introduction to web servers
- Installing & configuring Apache
- Hosting a web site and multiple websites with virtual domains (IP based, name based)
- Setting up secure HTTP (HTTPS) and creating digital certificates for the web server
- Authenticating web users
- Setting up a Proxy Server
- Introduction to proxy servers
- Installing & configuring Squid
- Authenticating users
- How to block unwanted sites
- Setting up a NFS Server
- Introduction to Network File System
- Configuring NFS
- Maximum Disk Space utilization over the network
- Backup using NFS
- Setting up a SAMBA Server
- Introduction to Samba
- Configuring Samba
- Windows to Linux Migration
- Setting up a Mail Server
- Introduction to e-Mail
- SMTP, POP3, IMAP4 server compilation, installation and configuration
- Installing & configuring Send mail/Postfix
- Mail Authentication
- User management
- Sending & receiving mails with mail clients
- Virus detection
- Web interface for mail access

- Shell Scripting
- Installing & configuring Oracle11G
- Developing and Hosting dynamic web sites
- Linux Security