



Course Content for RedHat Linux Training

Course Objectives:

- ❖ Teach Basics of UNIX OS
- ❖ Ownership and permissions of the files and directories.
- ❖ File and directory permissions
- ❖ Manage files and directories in linux OS
- ❖ Using VI Editor to edit files
- ❖ Installing and managing RedHat OS
- ❖ Package management using RPM
- ❖ Services, Utilities, necessary Files and Directories
- ❖ User and group administration
- ❖ File System Security and Management
- ❖ Advanced file system Management
- ❖ Server Configurations
- ❖ Shell Scripting and Kerberos
- ❖ Configuring SMB Service, SMTP service and Virtualization
- ❖ Advanced Security and Networking concepts

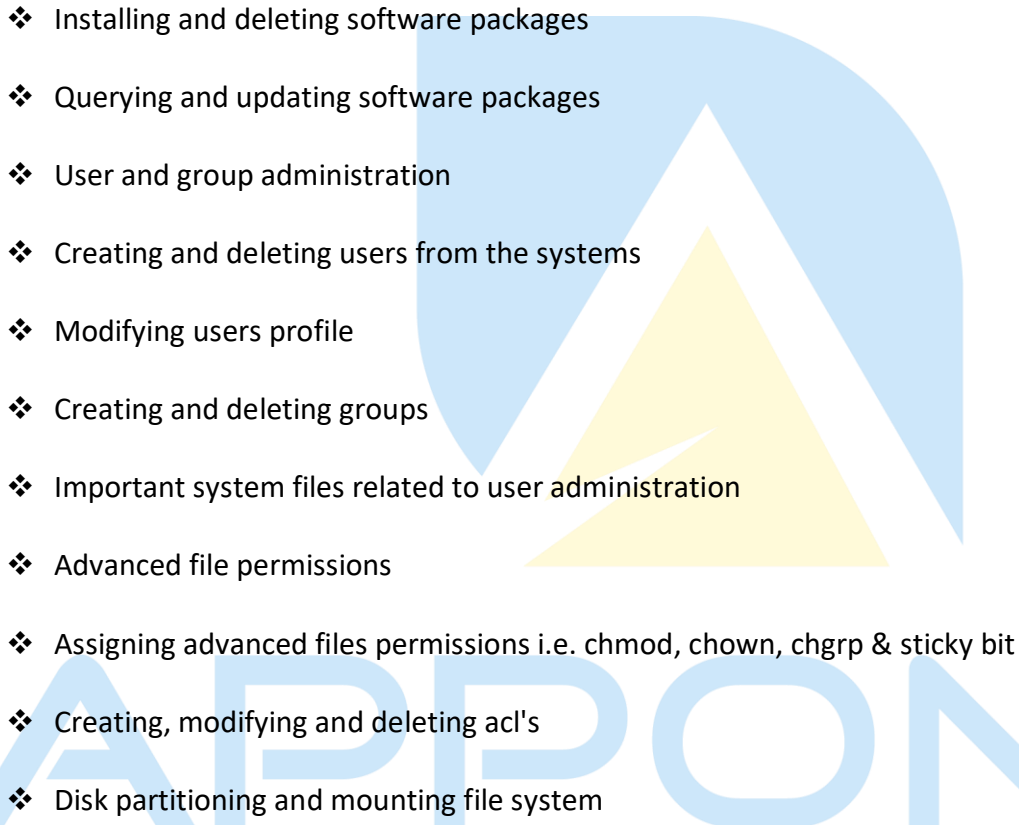
- ❖ IPv6 configuration, Kickstart Installation

Session 1: Linux Course Contents

- ❖ Introduction to unix, installation of linux
- ❖ User,group administration, acl
- ❖ Disk partitions,by using fdisk
- ❖ Mounting file systems, swap file system
- ❖ Backup and recovery, tar, cpio
- ❖ Basics of nfs, sharing data
- ❖ Disk quotas, lvm, raid
- ❖ Dhcp, dns, mail, web, ftp, yum

Session 2: Course Curriculum

- ❖ Introduction to unix & linux
- ❖ History of unix and linux
- ❖ Basic concepts of operating system, kernel, shell & file system structure
- ❖ Basic concepts of linux
- ❖ Differences between centos, red hat enterprise linux & fedora
- ❖ Basic commands of linux
- ❖ Advanced linux commands
- ❖ Installation of linux
- ❖ Inter active installation
- ❖ Network based installation

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- ❖ Introduction to graphical environment
 - ❖ Use and customize the gnome interface
 - ❖ Perform command tasks using the gnome gui
 - ❖ Launch applications from command line & gnome interface
 - ❖ Customize x window system
 - ❖ Software package administration
 - ❖ Installing and deleting software packages
 - ❖ Querying and updating software packages
 - ❖ User and group administration
 - ❖ Creating and deleting users from the systems
 - ❖ Modifying users profile
 - ❖ Creating and deleting groups
 - ❖ Important system files related to user administration
 - ❖ Advanced file permissions
 - ❖ Assigning advanced files permissions i.e. chmod, chown, chgrp & sticky bit
 - ❖ Creating, modifying and deleting acl's
 - ❖ Disk partitioning and mounting file system
 - ❖ Using fdisk, disk druid utilities for disk partitioning
 - ❖ Configuring and installation of zimbra server
 - ❖ Integrate on of zimbra with ldap
 - ❖ Starting the daemons
 - ❖ Creating users mail accounts / creating groups
 - ❖ Taking backup of mail accounts
 - ❖ Maintaining the logs of mail accounts

- ❖ Configuration of outlook , appletalk, mobile mail
- ❖ Nagios monitoring tool
- ❖ Installation & configuration of nagios & plugings
- ❖ Create nagios user & group
- ❖ Installation & configuration of web interface for nagios
- ❖ Starting the service
- ❖ Adding multiple servers & clients in nagios
- ❖ Ntp server
- ❖ Configuring of ntp server
- ❖ Starting the service
- ❖ Ntp synchronization
- ❖ Configuring on client
- ❖ Remote installation
- ❖ Configuraing kickstart
- ❖ Installing os with network
- ❖ Booting process
- ❖ Booting initialization
- ❖ Kernel initialization
- ❖ Init process
- ❖ Troubleshooting system
- ❖ Recovering the super user password
- ❖ Recovering the bootloader
- ❖ Troubleshooting network related problems
- ❖ Samba server



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- ❖ Configuring samba server
- ❖ Configuring windows for sharing
- ❖ Virtualization
- ❖ Managing vm's with kvm
- ❖ Cloning the vm
- ❖ Starting stoping vm's
- ❖ Log server
- ❖ Configuring log server
- ❖ Log rotation
- ❖ Analyzing logs
- ❖ Kernel updating
- ❖ Changing current kernel
- ❖ Upgrading kernel using yum
- ❖ Ipbonding
- ❖ Configuring ipbonding
- ❖ Nic failover
- ❖ Load balance



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- ❖ Using mkfs, commands to create file systems
- ❖ Mounting various file systems
- ❖ Auto mounting of file system
- ❖ Disk quotas
- ❖ Enabling quotas on partitions
- ❖ Creating quotas for users
- ❖ Auditing quotas limit

- ❖ Backup and recovery
- ❖ Introduction to various types of backup media
- ❖ Backup and restoring using tar and cpio commands
- ❖ Nfs
- ❖ Configuring nfs server
- ❖ Mounting nfs exports on nfs clients
- ❖ Dynamic host configuration protocol (dhcp)
- ❖ Configuring linux as dhcp server
- ❖ Configuring various clients for dhcp server (windows & linux)
- ❖ Dns server
- ❖ Configuration of dns server
- ❖ Configuration of primary dns server
- ❖ Configuration of forward lookup zone
- ❖ Configuration of reverse lookup zone
- ❖ Testing tool of dns zones
- ❖ Adding services in dns
- ❖ Web server (apache)
- ❖ Basics of web service
- ❖ Introduction to apache
- ❖ Configuring apache for main site
- ❖ Configuring apache for multiple sites using ip-based, port-based and name-based virtual hosting
- ❖ Ftp server (vsftpd daemon)
- ❖ Basics of file transfer protocol
- ❖ Configuring vsftpd for anonymous ftp service

- ❖ Raid (redundant array of inexpensive disks) & logical volume manager
- ❖ Implementing raid on linux
- ❖ Raid levels (0, 1 and 5) configuration using raid tools
- ❖ Resizing the partition using lvm

Session 3: Advanced Topics

- ❖ Webserver (apache)
- ❖ Introduction of apache
- ❖ Comparison between http and https
- ❖ Generating ssl key & creating ca
- ❖ Configuring https
- ❖ Configuring https client
- ❖ Zimbra mail server
- ❖ Proxy server
- ❖ Proxy server configuration
- ❖ Creating acl's to restrict internet to users
- ❖ Proxy cache server

Why Choose Apponix for RedHat Linux Training?

- Apponix has very experienced Linux system administrators as its trainers.
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- Excellent lab infrastructure for RedHat Linux training
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- Dedicated HR team to help students in securing job