

## Introduction to Linux and UNIX

- \* History of UNIX & LINUX
- \* Concepts of Operating Systems
- \* Kernel, shell & file system structure

## Installation of Linux

- \* Types of Installation Methods
- \* GUI • Text

## Linux System Structure

- \* Concepts of Linux
- \* Red Hat Enterprise Linux Vs Cent OS
- \* Bash commands • Editors [GUI & CLI]

## User and Group Administration

- \* Types of Users
- \* Creating & Deleting - Users & Groups
- \* Modifying Users profile
- \* Adding Users into the Groups
- \* User & Group administration

## Advanced File Permissions

- \* Importance of Permissions
- \* Types - User level, Group level
- \* Setting Access Level Permissions on Users & Groups

## Disk Partitioning & Mounting File System

- \* Definition • Types of Partitions
- \* Comparison - ext2, ext3 & ext4 file systems
- \* Creating partitions using Fdisk utility
- \* Formatting partitions using mkfs
- \* Mounting various filesystems - temporarily, permanently

## Logical Volume Management

- \* Introduction • Data storage using LVM
- \* Conversion of Partition into Physical Volume
- \* Creating volume groups and logical volumes
- \* Mounting the logical volume filesystems
- \* Extend and Reduce the logical volumes
- \* Renaming volume groups & logical volumes
- \* Removing physical volume, volume group & logical volume

## SWAP PARTITION

- \* Introduction • Format partition
- \* SWAP partition - Turn on, Turn off

## Network Connections

- \* Configuring Physical IP Address
- \* Configuring Virtual IP Address
- \* Enabling & Disabling Network Connections

## Disk Label

- \* Introduction • Mounting partition
- \* Permanently mounting partition

## Disk Quotas

- \* What is Disk Quota
- \* Mount partition with user & group
- \* Full permission on quota partition
- \* Enable the quota on partition
- \* Apply quota on a user, group

## Backup & Restore

- \* Tar & Filter the archive - GZIP(-Z)
- \* Tar & Filter the archive - BZIP2(-J)
- \* CPIO command

## yum server

- \* Introduction • yum server configuration

## NFS server

- \* Introduction • Install NFS appln
- \* NFS server configuration
- \* Provide share directory name in NFS

## configuration file & give share permission

- \* NFS client configuration

## FTP Server

- \* FTP • Configuring vsftpd

## DHCP server

- \* Introduction • Configuring DHCP
- \* DHCP client configuration

## DNS server

- \* Introduction • DNS configuration
- \* Create zones - forward, reverse
- \* DNS client configuration

## APACHE WEB SERVER

- \* Introduction of Apache web server
- \* Server configuration based on - names, IP addresses
- \* Web server client configuration
- \* Port based websites configuration



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