

**BASIC LINUX**

## Lecture 1.

* Introduction to Open Source
* Understanding of Operating System
* History and the future of Linux
* Why Linux is best in compare to Windows
* Uses of Linux in latest technologies
* RedHat Certifications
* Requirement of RedHat Certifications
* Introduction of Advanced Certifications

## Lecture2.

* Understanding of File system and File types in Linux
* Understanding of disk partitions, MBR and BIOS
* Boot Loader & Booting Process of Linux

## Lecture3.

* Installation of Operating System
* Understanding of installation process
* Installation By CD, Network or on Virtual Machine

## Lecture4.

* Working with CLI & GUI
* Managing Login & Logout in System
* Working with Shell in Linux
* Working with basic commands ( cd, ls, pwd, history, mkdir, touch, man, pinfo, rm, cp , mv, date, cal, cat, ping )
* Creating and managing files using vim editor and gedit editor

## Lecture5.

* Working with Linux File system
* Understanding of inode number, inode table and structure
* Creating and using Symbolic link ( Soft Link & Hard Link )

## Lecture6.

* User Administration **part-1**
* Understanding of user account and accessing
* Creating and managing users ( useradd, usermod, userdel)
* User account management by using files (passwd, shadow, group, gshadow)
* Creating and managing group ( groupadd, gpasswd, chage, chfn )

## Lecture7.

* User Administration **part- 2**
* Understanding of configuration files ( /etc/default/useradd, /etc/login.defs )
* Accessing user account using ( su , su – commands )
* Managing user account sessions
* Monitoring system login ( w, last, lastb, /var/log/secure )

## Lecture8.

* Understanding of Basic Permissions &umask
* Numerical & Symbolic Method
* Special Permission ( Sticky Bit, SUID, SGID )

## Lecture9.

* Managing user accessibility to the system
* Access Control List ( ACL Permissions )
* SUDO Permissions

## Lecture10.

* Managing searching using Find , grep, head & tail Commands
* Working with I/O Redirection Operator
* Working with awk, sed, diff, file
* Archiving and copying files between system using Tar, scp&rsync

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