**Linux Course Content for L1 & L2 job profile**

**Module 1- Basic concept**

I) Intro and history of Linux

ii) Installation of Linux 8 and 9 (GUI & CLI)

iii) Basic commands

iv) File system hierarchy

v) Editor (VI ,Vim, nano , gedit)

vi) Hard and soft link

vii) Grep ,Egrep,Fgrep

vii) Sed, Cut,Awk,Find and locate

**Module 2 – User & group management**

i) User management

ii) Group management

iii) Passwd,group,shadow,gshadow file full info and practical

iv) user and group troubleshooting

v) SU command use

vi) SUDO command use

**Module 3 – Partition management**

i) Make and delete the partition

ii) EXT2 ,EXT3,EXT4,XFS file system and uses

iii) Mounting (Temporary, Permanent)

iv) Update file system without loss the data

V) Swap Partition (make from 2 ways)

Vi) Give password on partition (LUKS)

**Module 4 – Permission management**

i) Permission (numerical , symbolic)

ii) Special permission (suid , sgid , sticky bit)

iii) UMASK

**Module 5 – Server troubleshooting**

1. Break root password (2 ways)
2. Booting process of linux

iii) Give and break Grub password

iv) Grub corrupt and recover

v) Kernel panic troubleshooting

vi) Control-D troubleshoot

**Module 6 – Admin work management**

1. Compression , encryption , Tar, gzip,bzip2 and xz – data backup

ii) Job Scheduling (at, crontab)

iii) Run level

iv) File security (Attributes)

v) Lock the user after give 3 wrong password

**Module 7 – Networking**

i) 3 way to give IP address

ii) Make a network in windows and linux machines

iii) NFS (network file sharing)

1. SCP (secure copy)
2. Rsync

v) Network Teaming

**Module 8 – Console and software installation management**

i) SSH Server (12 practical)

ii) Multifactor authentication (OTP security in SSH)

iii) Telnet

iv) XRDP

v) RPM

vi) Local YUM server

**Module 9 – Monitoring**

i) See the process

ii) Change the priority and kill the process

iii) Top command define

**Module 10 – Linux Security management**

i) Firewall

ii) SElinux

iii) Redhat subscription

**Module 11 – Storage Management**

i) Quota management

ii) ACL

iii) RAID (Level 0 ,1 ,5,6,10)

iv) LVM (10 Practical)

**Module 12 – Servers Management**

1. Samba server
2. FTP server
3. SFTP server

ii) Make YUM client

iii) DHCP

iv) NTP

v) BIND (DNS)

vi) HTTP (Apache server)

vii) HTTPS

Viii) Squid (Proxy server)

ix) Virtualization (KVM)

x) Cockpit use

xi) Kickstart server (network OS installation)

Xii) Mail Server

Xiii) Mariadb (Full use and break database password)

Xiv) Syslog server

Xv) Basic Shell scripting

Xvi) Install and configure NIS (Network information services)

Xvii) Configure ISCSI target server

Xviii) Server Patching

Xix) Kernel Updation

Xx) Nagios Server

Xxi) Zabbix monitoring tool

**Module 13 – Ansible automation**

i) Intro of Ansible

ii) Ansible Lab setup

iii) Ansible all module use (12 module)

iv) Playbook

v) variables

vi) Loop

vii) Fact

viii) Condition statement

ix) Notify and handler

x) Tags

xi) Ignore errors

xii) Rescue, block and always

xiii) Ansible vault

Xiv) Roles structure

xv) Ansible tower

xvi) Cloud integration

xvii) Dynamic inventory

**Module 14 – AWS cloud**

1. Make AWS free account
2. Make Linux EC2 instance and access the console
3. Make window EC2 instance and access the desktop

**Important Info:-**

1. Course cover in approx. 45 days.
2. Recoded video and note will provide after every class and access life time.
3. Provide 800 interview question for sure selection.
4. Help to make impressive resume.
5. Join upcoming all Linux batch free for revision.
6. Share job openings.
7. Life time support for doubts and also help in your office server issues.