CELEBRATING
14 YEARS

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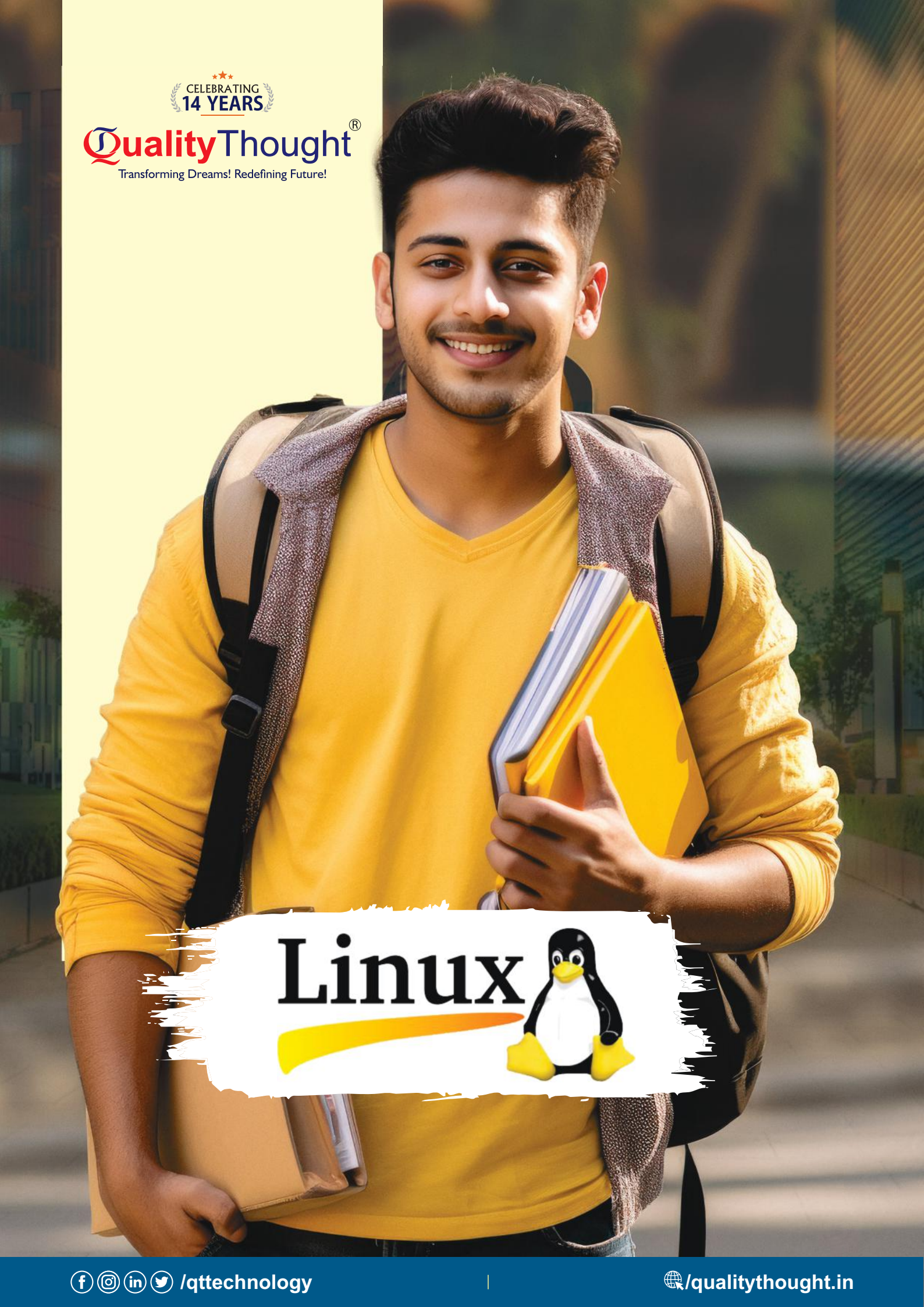

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Module 1

1.Servers
2.Introduction of linux
3.Brief intro of Unix
4.Brief intro of linux and its distributors
Redhat and Ubuntu Versions. 5. Windows vs Linux.
6.Directory Structure and its use(File System hierarchy)
7.Operating System
a.Types of Operating System
b.History Of Linux Operating System
c.Benefits of Linux Operating System
d.Linux Flavors
8. IT/Software Business Environment Full Flow
9. Roles of a Linux Administrator
10. Kernel
11. AWS Instance creation with RHEL
Operating System for practicing purpose.
12. Administrating Remote Systems
13. Understanding of VMware and related type of Software's
14. Necessity of the Servers
15. Types of servers
16. Components of Server
17. Different Terminal
17.1. Utilization of different tools for accessing the servers
a.17.1. Putty
b.17.2 Mobaxterm
c.17.3 WinScp

Module 2

1. Booting Procedure
2. Linux Installation Procedure
3. Linux basic Commands:
3.1 Basic Commands:
pwd, ls , mkdir, cd, ls, touch, cat, more, sort,
sed, cp, mv, mv, rm, cmp, diff, su, clear, eject,
history, uptime, fdisk, wc, cal, whoami, date,
whatis, --help, man,ctrl+c, q, ps, top, kill, init 6, init 0,
reboot, shutdown, find, locate, grep, use of pipe,
whereis, du, df, free, mount, umount, hostname,
ping, nslookup, passwd, logout , awk etc.
4.Hard Link and Soft Link.
5.Compression-Decompression.
6.Managing services and Process.
7.Working with External storage.
8.Disk Partitioning.

Module 3

1.Users and Group Administration.
2.User accounts and group accounts
2.1Creating user, setting password,
modifying user, deleting user.
2.2Creating Group, Deleting Group.
2.3Adding Users in a group.
2.4.Important files for user and group.
2.5.Giving root access to normal users.
2.6.Restrict users to use specific commands only.

Module 4

1.Linux partition.
2.Kernel and Shell.
3.Securing files and directories.
3.1chmod
3.2umask
3.3chown
3.4acl
4.Booting process
(BIOS-MBR-Grub-Kernel-Init-Runlevel).
5.Recovering root password.

Module 5

1.Managing file system and volumes.
2.LVM Storage.
2.1Physical volume creation, deletion.
2.2Volume group creation, deletion.
2.3Logical volume creation, deletion, resizing.
2.4Permanently mounting logical volume.

Module 6

1.Install, update, remove packages or
applications in Linux using
APT and YUM package managers.
1.2.Software Management .
1.2.1.Installing Methods .
1.2.2.Uninstalling Methods .

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Module 7

18.Services and Processes
19.Enhanced User Security with SUDO
20.Backup and Restore
21.Cron jobs scheduling
22.FTP (File Transfer Protocol) Server
23.NFS (Network File System) Server
24.Samba Server.
25.Shell Scripting.
26.SCP.
27.File Transfer Protocol (FTP).
28.Apache Web Server.
29.Schedule future Linux tasks (at and cron jobs).
30.Firewall configuration.
31.Controlling multiple servers at a time using Ansible.
32.NTP.
33.Monitoring Linux Servers using Prometheus.
34.DNS (Domain Name System) Server
35.Basic understanding of a ticketing tool
36.Basic understanding of a messaging tool
37.Basic understanding of a supporting project
38.Basic SQL Concepts
39.Basic Python Data Types
40.Real-time Project experience
41.Top 100 Linux interview Questions

Module 8

: 5 – 10 years skills should be known
(a Brief explanation on each topic) 1. Secure Shell Server (SSH)
1.Teletype Network Server (Telnet)
2.File Transfer Protocol Server (FTP)
3.Network File System Server (NFS)
4.Samba server cirs/SMB
5.Domain Name server UNS & Clients
6.Dynamic Host Configuration Protocol Server (DHCP)
7.Network Time Protocol Server {NTP (Chrony)} & Clients
8.MySQL Server
9.MariaDB Server
10.Puppet Server & Clients
11.Ansible Server & Nodes
12.Lightweight Directory Access Protocol (LDAP) Server & Clients
13.Network Information Service (NIS) Server & Clients
14.iSCSI Target & Initiator
15.Jenkins Server
16.Web Servers HTTP/HTTPS
17.Nginx Server & Clients
18.Zabbix Server & Clients
19.Nagios Server & Clients
20.Yum Servers
21.Postfix & Sendmail
22.Squid Proxy Server & Clients
23.Rsyslog Sever & Clients
24.Freeipa
24.Prometheus/Grafana
25.Hadoop cluster
26.Varnish Cache Server & Clients.
27.High Availability (HA) PCS Cluster
28.Kickstart Server
29.Raid levels.

Module 9

10+ years skills must be known
(patching, vulnerabilities, scanning, etc)
will be also explained in detail.

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