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Linux Professional

Course Guide

The Linux training enhance your skills and knowledge of system administration, configuration, networking services on Linux system.

By completing track, candidate will eligible to pass the following certifications:

RedHat Certified System Administrator – RHCSA
RedHat Certified Engineer – RHCE
Linux Professional Institute Certifications

Redhat is globally accepted exam
The Redhat exams are trusted and accepted by leading employers, educational institutions and governments worldwide.

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Linux Professional Contents

The Linux training is carefully designed to build and enhance knowledge and skill in areas of system administration, configuration, network services across a wide range of environments and deployment scenarios.

Installation and Configuration

Selecting the Hardware
- CPU, Motherboard, RAM, Hard Disk, CD ROM, Serial Interface etc.

Planning installation
- Disk Partitioning
- Packages to be installed on Linux File systems
- Swap space partition sizing and placement
- The LILO and Grub boot manager

Testing and Validation the installation
- X Windowing System
- Hardware: X server selection, Tools for X configuration
- Windows managers, Desktops, Startup
- KDE
- GNOME

Configuration:
- Linux Shells
- System initialization.
- Basics and Advance BASH Shell Commands
- Linux Editors Introduction, VI Editor
- User environment, File system configuration
- Basic networking, Adding, deleting and modifying users and Groups
- Implement Data Security
- Mounting / Un-mounting removable media (CD's, USB)

Advanced Configuration
- Network Services
- Working with run levels
- Emergency boot procedures, System logging
- Process Administration
- Setting up and managing disk quotas
- Scheduling the processes using CRON & AT utilities
- IP Address Assignment (Statically)
- Data Backup and recovery

- Linux Conf
- Access Linux Shells (CLI, GUI) remotely using Telnet and SSH

Servers

IP Management (Static & Dynamic)

DHCP Server
- Installing, Configuring & Managing DHCP Server

NFS (Network File Services)
- Installing, Configuring & Managing DHCP Server
-

SAMBA
- Configuring Linux as Samba Server & Client to share folder with win98 & WinNT, 2000
- Sharing printer through SAMBA.
- SWAT (Samba Web Administration tool)

Domain Name Services
- Installing, Configuring & Managing DNS (Bind) Server

Web Services
- Installing, Configuring & Managing Web Server (Apache) Server

FTP Services
- Installing, Configuring Ftpd for a simple (anonymous) ftp or real user

Zebra Service (Linux Router)
- Routing Types (Default, Static, Dynamic)

DHCP Relay Agent
- Designing and Implementing DHCP Relay Agent

Network Address Translation (NAT)
- Designing and Implementing Network Address Translation

Mail Services
- Basic Sendmail Configuration
- POP, SMTP, IMAP

Proxy Server (Squid)
- Configuring Linux as proxy server
- Network security
- Web cache
- ACL (Access Control Lists)
- Blocking URL's
- Implementation of Transparent Proxy
- Viewing Logs

Webmin
- Installation of web min
- Configuring Web min for local and remote users
- Configurations of web min tools
- Scripting

Firewall (IP Tables)
- Configuring Linux server as software firewall.
- Implementing access control list (ACL) on Linux server

Practical Approach

The real life examples will be given throughout the lectures.

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