

Course Outline: Linux Professional Institute-LPI 301

Learning Method: Instructor-led Classroom Learning

Duration: 5.00 Day(s)/ 40 hrs

Overview:

Linux System Administration: LPI Certification, you examined the basic commands required to manage files, directories, users, and devices. In this course, you will implement and manage web, file, and security features. You will also troubleshoot the system and network problems. You will find that this course benefits you in two ways. First, it will teach you the skills you need to provide advanced features and services to users of your Linux network. It will also prepare you for the LPI Certification exam (Exam 201 and Exam 202).

Who Should Attend:

This course is intended for individuals who are employed as a Systems Administrator, Systems Engineer and IT Manager.

At Course Completion:

At end of the course you will install, configure, manage, and troubleshoot network services. Based on the business requirements, you will add new hardware devices to the Linux system. You will also re-compile and patch a kernel to extend the kernel functionality. You will secure the Linux network from intruders. You will share resources across networks and automate tasks using scripts. You will determine the cause of the network problems and troubleshoot them. Additionally, you will also create a boot and recovery disk to restore a system from crash.

Outline:

Implementing DHCP Services

- Examine Networking Basics
- Install a DHCP Server
- Configure a DHCP Server

Implementing DNS Services

- Install a DNS Server
- Configure a DNS Server
- Secure DNS Server

Implementing Internet and Web Hosting Services

- Install a Web Server
- Configure a Web Server
- Maintain a Web Server
- Install a Proxy Server
- Configure a Proxy Server
- Install an FTP Server
- Secure an FTP Server

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Managing File Services

- Implement Samba Services
- Implement NFS services
- Access Files Remotely Using SSH
- Access Files Remotely Using VPN
- Synchronize Files

Managing a Mail Server

- Configure a Mail Server
- Install Majordomo
- Create Mailing Lists
- Implement Procmail

Sharing Information

- Configure an NIS Server
- Configure NIS Clients
- Implement LDAP Services
- Manage a News Server

Configuring Devices

- Add New Hardware
- Manage Disk Space
- Configure RAID
- Configure Network Devices to Connect to Networks

Automating Tasks Using Scripts

- Automate Search Using Script Files
- Automate Calculation
- Write a Perl Script

Securing Networks

- Secure Data
- Configure TCP Wrappers
- Configure Firewall on a Router
- Change Runlevel
- Manage Passwords
- Implement Kerberos

- Detect Intrusion

Maintaining Servers

- Manage Log Files
- Maintain Filesystems
- Configure Automount Filesystems
- Compile a Kernel
- Configure the Kernel Modules
- Patch a Kernel
- Package Software

Troubleshooting Linux Network Issues

- Create Recovery Disks
- Troubleshoot Boot Loader
- Troubleshoot Devices
- Troubleshoot the System Environment
- Troubleshoot Network Issues

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