NV 3112 Novell's Guide to the LPIC-1 Certification Using SUSE Linux Enterprise Server 11

Course Summary

Description

This course provides a learning experience for students who want to prepare for the LPIC-1 exams. It uses SLES 11 as the Linux operating system environment that allows students to get the hands-on experience they need as they seek to earn the LPIC-1 certification. After completing this course, students should be ready to attempt the LPIC-1 exams.

Objectives

At the end of this course, students will be able to:

- Use the Linux Desktop and the Command Line Interface
- Install SUSE Linux Enterprise Server 11
- Administer SUSE Linux Enterprise Server 11 with YaST
- Administer SUSE Linux Enterprise Server 11with the Command Line Interface
- Manage Processes, Jobs, and Runlevels
- Configure the Network
- Configure Applications and Services (File, Print, DNS, Samba, Apache, ...)
- Understand Security-Related Tools

Topics

- Use the Linux Desktop and the Command Line Interface
- Install SUSE Linux Enterprise Server 11
- Administer SUSE Linux Enterprise Server 11 with YaST
- Administer SLES 11 with the Command Line Interface
- Manage Processes, Jobs, and Runlevels
- Configure the Network
- Configure Applications and Services
- Understand Security-Related Tools

Audience

The primary audience for this course is students preparing for LPI's LPIC-1 exams.

Prerequisites

Before taking this course, students should already be familiar with operating systems, such as Windows or Mac, that use graphical user interfaces. They should also be familiar with the basics of directory and file systems, networking, and basic administration tasks performed in a PC operating system.

Duration

Five days

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... to Your Success!"

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Course Outline

I. Use the Linux Desktop and the Command Line Interface
- A. Use the GNOME Desktop Environment
- B. Configure Accessibility Settings
- C. Access the Command Line Interface from the Desktop
- D. Work with the Linux Shell
- E. Use Command Line Tools to Work with Files and Directories
- F. Apply Locale and Time Zone Settings

II. Install SUSE Linux Enterprise Server 11

III. Administer SUSE Linux Enterprise Server 11 with YaST
- A. Get to Know YaST
- B. Manage Software with YaST
- C. Manage User and Group Accounts with YaST
- D. The X Window System

IV. Administer SLES 11 with the Command Line Interface
- A. Manage Software
- B. Manage Shared Libraries
- C. Manage User and Group Accounts
- D. Manage File Permissions and Ownership
- E. Manage Partitions, File Systems, Quotas, and NFS
- F. Manage Backup, Restore, and Hardware

V. Manage Processes, Jobs, and Runlevels
- A. Understand and Manage Linux Processes
- B. Manage Jobs with cron and at
- C. Understand System Initialization and Manage Runlevels
- D. Use Monitoring and Troubleshooting Tools

VI. Configure the Network
- A. Understand TCP/IP and Linux Network Terms
- B. Manage the Network Configuration Information from YaST
- C. Manage the Network Configuration with Command Line Tools
- D. Troubleshoot Networking Issues
- E. Configure DHCP
- F. Understand the iptables Command

VII. Configure Applications and Services
- A. Configure the Samba Server
- B. Configure the Apache Web Server
- C. Enable an FTP Server
- D. Configure Electronic Mail
- E. Configure a CUPS Server
- F. Configure a DNS Server with BIND
- G. Configure the NTPD
- H. Enable xinetd
- I. Configure the Proxy Server Squid

VIII. Understand Security-Related Tools
- A. Manage and Secure the Linux User Environment
- B. Provide Secure Remote Access with OpenSSH
- C. Configure User Authentication with PAM
- D. Ensure File Integrity
- E. Use Security-Related Utilities
- F. Understand SELinux

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