

Linux System Administration: LPI Certification (Second Edition)

Course Specifications

Course length: 5.0 day(s)

Certification: Junior Level Administration, LPIC-1 (Exams 101 and 102)

Course Description

You already have a basic knowledge of computer hardware and system administration. Now you would like to focus on Linux® system administration and prepare to take the LPI 101 and 102 exams. In the Linux System Administrator: LPI Certification (Second Edition) course, you will acquire the skills to administer Linux systems and also gain the requisite knowledge to take the LPI 101 and 102 exams.

Course Objective: You will install, configure, and manage Linux systems.

Target Student: This course is designed for a person who has been performing basic system administration tasks and who needs to install, configure, and manage a Linux-based system. This course is also useful for individuals who desire to take the 101 and 102 exams of LPI leading to the Junior Level Administration (LPIC-1) certification.

Prerequisites: Students enrolling in this class should have basic computer skills and prior system administration experience of at least six months with any operating system. They should also have a working knowledge of Linux and should have performed basic user-level tasks on a Linux system. It is recommended that the students have taken the course titled A+ Certification: Core Hardware or possess equivalent knowledge.

Performance-Based Objectives

Upon successful completion of this course, students will be able to:

- Ensure that the preinstallation checks are performed before installing Linux and then you'll install the operating system on the computer.
- Use the Linux Command Line Interface to take advantage of the various commands that Linux provides. You will also get acquainted with accessing documentation in Linux with the help of the command line.
- Work in the Linux filesystem to explore the options and commands provided to manage files and directories. By doing this, you can access and organize the files and directories efficiently.
- Manage packages in Linux.
- Configure network connectivity to share data across a network.

• Manage users and groups.

- Configure the Graphical User Interface.
- Configure hardware devices to manage input and output data, efficiently.

- Work with the kernel.
- Maintain filesystems.

- Configure software services.
- Automate tasks.
- Maintain the system.

• Secure the system.

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Course Content

Lesson 1: Installing Linux

Topic 1A: Perform Preinstall Tasks Topic 1B: Install a Linux Workstation

Lesson 2: Using the Linux Command Line

Topic 2A: Use Linux Commands Topic 2B: Use the Command Line to Access Linux Documentation

Lesson 3: Working with the Linux Filesystem

Topic 3A: Manage Files and Directories Topic 3B: Manage Links to a File Topic 3C: Edit Files Topic 3D: Redirect Content Topic 3E: Search Text Files Using Regular Expressions Topic 3F: Apply Filters to Text Streams

Lesson 4: Managing Packages

Topic 4A: Manage Packages Using the RPM Package Manager Topic 4B: Manage Packages Using the Debian Package Manager

Lesson 5: Configuring Network Connectivity

Topic 5A: Connect to a Network Topic 5B: Configure Network Services Topic 5C: Access a Remote Computer Topic 5D: Configure Hostname Lookup Topic 5E: Configure Routing Topic 5F: Debug Network Configuration Issues

Lesson 6: Managing Users and Groups

Topic 6A: Configure User Profiles Topic 6B: Manage User Accounts Topic 6C: Manage Groups Topic 6D: Manage File Ownership Topic 6E: Manage File Access Rights

Lesson 7: Configuring the Graphical User Interface

Topic 7A: Implement X Topic 7B: Customize the Display Manager Topic 7C: Customize the Window Environment

Lesson 8: Configuring Hardware Devices

Topic 8A: Configure SCSI Devices Topic 8B: Configure I/O Devices Topic 8C: Configure Communication Devices

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Lesson 9: Configuring Software Services

Topic 9A: Configure the Boot Manager Topic 9B: Set Up the Email Services Topic 9C: Install an Executable Program from Source Topic 9D: Configure the Apache Web Server Topic 9E: Manage Shared Libraries Topic 9F: Perform Process Management

Lesson 10: Working with the Kernel

Topic 10A: Customize Kernel Modules Topic 10B: Manage the Kernel

Lesson 11: Automating Tasks

Topic 11A: Develop Shell Scripts Topic 11B: Manage Shell Scripts Topic 11C: Customize the Shell Environment Topic 11D: Schedule Jobs

Lesson 12: Maintaining Filesystems

Topic 12A: Maintain a Local Filesystem Topic 12B: Manage Disk Quotas Topic 12C: Manage NFS Topic 12D: Implement Samba

Lesson 13: Maintaining the System

Topic 13A: Back Up Data Topic 13B: Restore Data Topic 13C: Maintain System Logs Topic 13D: Manage a Print Queue Topic 13E: Maintain the System Time

Lesson 14: Securing the System

Topic 14A: Configure Host Security Topic 14B: Configure User-Level Security Topic 14C: Configure Network Security

Appendix A: History of Linux

Appendix B: Junior Level Administration (LPIC-1) — LPI Objectives