

LPIC-1: Linux Administrator

Curriculum

Topic 101: System Architecture

- 101.1 Determine and configure hardware settings
- 101.2 Boot the system
- 101.3 Change run levels/boot targets and shutdown or reboot system

Topic 102: Linux Installation and Package Management

- 102.1 Design hard disk layout
- 102.2 Install a boot manager
- 102.3 Manage shared libraries
- 102.4 Use Debian package management
- 102.5 Use RPM and YUM package management
- 102.6 Linux as a virtualisation guest

Topic 103: GNU and Unix Commands

- 103.1 Work on the command line
- 103.2 Process text streams using filters
- 103.3 Perform basic file management
- 103.4 Use streams, pipes and redirects
- 103.5 Create, monitor and kill processes
- 103.6 Modify process execution priorities
- 103.7 Search text files using regular expressions
- 103.8 Basic file editing

Topic 104: Devices, Linux Filesystems, Filesystem Hierarchy Standard

- 104.1 Create partitions and filesystems
- 104.2 Maintain the integrity of filesystems
- 104.3 Control mounting and unmounting of filesystems
- 104.4 Removed
- 104.5 Manage file permissions and ownership
- 104.6 Create and change hard and symbolic links
- 104.7 Find system files and place files in the correct location
- LPIC-1 Exam 102

Topic 105: Shells and Shell Scripting

- 105.1 Customise and use the shell environment
- 105.2 Customise or write simple scripts

Topic 106: User Interfaces and Desktops

- 106.1 Install and configure X11
- 106.2 Graphical Desktops
- 106.3 Accessibility

Topic 107: Administrative Tasks

- 107.2 Automate system administration tasks by scheduling jobs
- 107.3 Localisation and internationalisation

Topic 108: Essential System Services

- 108.1 Maintain system time
- 108.2 System logging
- 108.3 Mail Transfer Agent (MTA) basics
- 108.4 Manage printers and printing

Topic 109: Networking Fundamentals

- 109.1 Fundamentals of internet protocols
- 109.2 Persistent network configuration
- 109.3 Basic network troubleshooting
- 109.4 Configure client side DNS

Topic 110: Security

- 110.1 Perform security administration tasks
- 110.2 Setup host security
- 110.3 Securing data with encryption