

LPIC-1: Linux Administrator Rapid Track

Learn to install, configure and administer Linux systems, from hardware and filesystems to shell scripting, networking and security.

10

MODULES

41

TOPICS

COURSE OVERVIEW

This course covers Linux system architecture, hardware configuration and boot processes, followed by installation and package management using Debian and RPM/YUM tools. It addresses core GNU and Unix commands, filesystem management, device handling and the Filesystem Hierarchy Standard. The course then covers shell environments and scripting, graphical interfaces and desktops, administrative tasks, essential system services, networking fundamentals and security administration.

WHO THIS COURSE IS FOR

Linux Administrators

System Administrators

Network Administrators

IT Support Technicians

Security Administrators

LEARNING OBJECTIVES

- Configure hardware settings and boot the system
- Design hard disk layout and manage packages with Debian and RPM/YUM
- Apply command line tools, filters, pipes and regular expressions
- Manage processes, execution priorities and basic file editing
- Create and maintain filesystems, partitions, permissions and links
- Customise shell environments and write simple shell scripts
- Configure X11, graphical desktops and accessibility options
- Configure networking, client-side DNS and host security

10 Modules, 41 Topics

101

System Architecture

TOPICS

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

102

Linux Installation and Package Management

TOPICS

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

103

GNU and Unix Commands

TOPICS

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

104

Devices, Linux Filesystems, Filesystem Hierarchy Standard

TOPICS

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

105

Shells and Shell Scripting

TOPICS

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

106

User Interfaces and Desktops

TOPICS

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

107

Administrative Tasks

TOPICS

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

108

Essential System Services

TOPICS

108.1 Maintain system time · 108.2 System logging ·
108.3 Mail Transfer Agent (MTA) basics

109

Networking Fundamentals

TOPICS

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

110

Security

TOPICS

110.1 Perform security administration tasks · 110.2 Setup host security

WHAT IS INCLUDED

Everything You Need to Succeed

- Koenig course material for every module
- Delivery by certified instructors and subject matter experts
- Hands-on exercises throughout the course
- Course completion certificate from Koenig

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Who We Are

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