

KOENIG SOLUTIONS • COURSE OUTLINE

LPIC-1 Exam Prep (Course 1) v5.0

Learn to configure Linux hardware, manage packages, use command line tools and administer filesystems for LPIC-1 certification.

4

MODULES

23

TOPICS

COURSE OVERVIEW

This course covers Linux system architecture, including hardware configuration, booting, runlevels and boot targets. It then addresses installation and package management, covering disk layout, boot managers, shared libraries, Debian and RPM/YUM package systems, and running Linux as a virtualization guest. The course proceeds to GNU and Unix commands, including command line operation, text stream processing, file management, pipes and redirects, process control and basic file editing. It concludes with devices and filesystems, covering partition creation, filesystem integrity, mounting, permissions, links and the filesystem hierarchy standard.

WHO THIS COURSE IS FOR

Linux Administrators

System Administrators

IT Support Technicians

Network Administrators

Aspiring LPIC-1 Candidates

LEARNING OBJECTIVES

- Configure hardware settings and boot the system
- Change runlevels or boot targets and shut down systems
- Design hard disk layout and install a boot manager
- Manage shared libraries and use Debian and RPM package tools
- Apply command line operations and text stream filters
- Identify file management tasks using pipes and redirects
- Create and monitor processes and modify execution priorities
- Create partitions and manage filesystem permissions and links

4 Modules, 23 Topics

101

System Architecture

TOPICS

- 101.1 Determine and configure hardware settings
- 101.2 Boot the system
- 101.3 Change runlevels / 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 virtualization 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 |

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

ABOUT KOENIG

Who We Are

Established in 1993, Koenig Solutions is a globally recognised training provider with 35+ technology partnerships, 5,000+ training programmes and a network of certified instructors and subject matter experts, supporting individuals and enterprise teams worldwide.

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