Systems & Network Training

Linux engineer certification 1 (LPIC-2)

A 5 day Hands on training course

Save on expenses. This course is also available on your premises.

Description

LPIC-2 is the second certification in LPI's multi level professional certification program. This course teaches the skills necessary to pass the LPI 201 exam; the first of two LPIC-2 exams. Specifically, the course covers the administration of Linux systems in small to medium sized mixed networks.

Key outcomes

By the end of the course delegates will be able to:

- ✔ Perform advanced administration tasks.
- ✔ Perform advanced file system administration.

Training Approach

This structured course uses Instructor Led Training to provide the best possible learning experience. Small class sizes ensure students benefit from our engaging and interactive style of teaching with delegates encouraged to ask questions throughout the course. Quizzes follow each major section allowing checking of learning. Hands on sessions are used throughout to allow delegates to consolidate their new skills.

Details

Who will benefit?
Linux administrators.

Prerequisites
LPIC-1

Duration: 5 days

Overall rating: ★★★★★

Generic Training	Small Class Sizes	Hands On Training	Our Courseware	Customise Your Course
Generic training compliments product specific courses covering the complete picture of all relevant devices including the protocols "on the wire".	We limit our maximum class size to 8 delegates; often we have less than this. This ensures optimal interactivity between delegates and instructor.	The majority of our courses use hands on sessions to reinforce the theory.	We write our own courses; courseware does not just consist of slides and our slides are diagrams not bullet point text.	Please contact us if you would like a course to be customised to meet your specific requirements. Have the course your way.
"*Friendly environment with expert teaching that teaches the why before the how.*" G.C. Fasthosts	*"Excellent course. The small class size was a great benefit..."* M.B. IBM	*"Not many courses have practice added to it. Normally just the theoretical stuff is covered."* J.W. Vodafone	*"Comprehensive materials that made the course easy to follow and will be used as a reference point."* V.B. Rockwell Collins	*"I was very impressed by the combination of practical and theory. Very informative. Friendly approachable environment, lots of hands on."* S.R. Qinetiq

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Course Content

Part I The LPI 201 Exam

Starting a System

The Linux Boot Process, Firmware Startup, BIOS Startup, UEFI Startup, Linux Bootloaders, GRUB Legacy, GRUB 2, Alternative Bootloaders, Secure Bootloaders, Process Initialization, SysV Method, systemd Method, Upstart Method, System Recovery, Kernel Failures, Root Drive Failure.

Maintaining the System

Fluid Messaging, Static Messaging, System backups, Backup Strategies, Performing Backups, Installing Programs from Source, Obtaining and unpacking Installation Files, Compiling Programs, Resource Usage: Managing, measuring, predicting and troubleshooting.

Mastering the Kernel

What Is the Kernel? Kernel Features, Parts of the Kernel, Kernel Versions, Obtaining Source Code, Creating the Configuration File, Compiling and Installing the Kernel, Compiling and Installing Modules, Creating an Initial RAM Disk, Booting the New Kernel, Creating a Kernel Package, Maintaining the Kernel, Working with Module Files, Module Commands, Working with Hardware, Automatically Detecting Hardware, Troubleshooting the Kernel.

Managing the Filesystem

The Linux Filesystem, Filesystem Structures, Filesystem Types, Making Filesystems, Attaching Filesystems, Memory–Based Linux Filesystems, the Btrfs Filesystem, Btrfs Subvolumes, Btrfs Snapshots, Optical Filesystems, Swap Filesystems, Network–Based Filesystems, Auto–Mounting, Encrypted Filesystems, Maintaining Linux Filesystems, Adjusting a Filesystem, Checking and Repairing a Filesystem, SMART.

Administering Advanced Storage Devices

Configuring RAID, Implementing RAID on Linux, Managing a RAID Array, Adjusting Storage Devices, Looking at Drive Interface Concepts, Testing and Tuning Drives, Implementing iSCSI, Managing Logical Volumes, LVM, Creating Logical Volumes, Supporting Logical Volumes, Understanding the Device Mapper.

Navigating Network Services

Networking Basics, The Physical Layer, The Network Layer, The Transport Layer, The Application Layer, Configuring Network Features, Network Configuration Files, Graphical Tools, Command–Line Tools, Basic Network Troubleshooting, Checking the Log Files, the ARP Cache, Sending Test Packets, Testing Network Routes, Testing Client/Server Connectivity, Finding Host Information, Network Security, Advanced Network Troubleshooting, Viewing Open Network Connections, Viewing Network Statistics, Scanning the Network, Capturing Network Traffic.