

Curso LPI 101-102 Certification

Descripción: Este curso prepara al alumno para presentar los exámenes 101 y 102 del nivel 1, LPIC-1, del LPI . La certificación LPIC-1 del **Linux Professional Institute** valida la competencia de Linux administración a nivel Junior. El curso se basa en material importado aprobado por la LPI.

- Se incluye CD con examen de simulación.

Aprenderás:

- Herramientas de la línea de comando de Linux
- Uso de expresiones regulares
- Uso de librerías compartidas
- Configuración de hardware
- Diseño del layout del disco duro
- Creación de particiones y sistemas de archivos
- Configuración del Sistema X Window
- de logins GUI
- Personalización del ambiente de escritorio
- Creación de un kernel a la medida
- Manejo del ambiente shell
- Configuración de un cargador de arranque

Audiencia: Administradores de sistemas operativos que desean pasar los exámenes de certificación 101 y 102 del LPI.

Prerrequisitos: Conocimientos de otro sistema operativo.

Chapter 1 Linux Command-Line Tools

- Command-Line Basics
 - Linux Shell
 - Shell Configuration
 - Using Environment Variables
 - Getting Help
- Using Streams, Redirection, and Pipes
 - Types of Streams
 - Redirecting Input and Output
 - Piping Data Between Programs
 - Generating Command Lines
- Processing Text Using Filters
 - File-Combining Commands
 - File-Transforming Commands
 - File-Formating Commands
 - File-Viewing Commands
 - File-Summarizing Commands
- Using Regular Expressions
 - Understanding Regular Expressions
 - Using grep
 - Using sed
- Editing Files with Vi
 - Vi Modes
 - Basic Text-Editing Procedures
 - Saving Changes
- Managing Processes
 - Examining Processes Lists
 - Foreground and Background
- Processes
 - Managing Processes Priorities
 - Killing Processes

Chapter 6 The Boot Process and Scripts

- Managing Kernel Modules
 - Obtaining Information about the Kernel and Its Modules
 - Loading Kernel Modules
 - Removing Kernel Modules
 - Maintaining Kernel Modules
- Creating a Custom Kernel
 - Kernel Version Numbering
 - Obtaining the Kernel
 - Configuring the Kernel
 - Compiling the Kernel
 - Putting Everything in Its Place
- Configuring a Boot Loader
 - Using LILO as the Boot Loader
 - Using GRUB as the Boot Loader
- Understanding the Boot Process
 - Extracting Information on the Boot Process
 - The Boot Process
- Dealing with Runlevels and the Initialization Process
 - Runlevel Functions
 - Identifying the Services in a Runlevel
 - Managing Runlevel Services
 - Checking Your Runlevel
 - Changing Runlevels on a Running System
- Managing the Shell Environment
 - Shell Options
 - Built-in Shell Functions
 - Using Environment Variables
 - Shell Configuration Files
- Linux Scripting
 - Beginning a Shell Script
 - Using Commands
 - Using Variables
 - Using Conditional Expressions
 - Using Functions

Chapter 2 Managing Software

- Package Concepts
- Using RPM
 - RPM Distributions and Conventions
 - Upgrades to RPM
 - The rpm Command Set
 - Extracting Data from RPMs
 - RPM Configuration Files
 - RPM Compared to Other Package Formats
- Using Debian Packages
 - Debian Distributions and Conventions
 - The dpkg Command Set
 - Using ap-get
 - Using dselect
 - Reconfiguring Packages
 - Debian Packages Compared to Other Package Formats
- Configuring Debian Package Tools
- Converting between Package Formats
- Package Dependencies and Conflicts
 - Real and Imagined Package Dependency Problems
 - Workarounds to Package Dependency Problems
 - Startup Scrip Problems
- Installing Programs from Source
- Obtaining and Extracting Software
- Uninstalling Locally Compiled Software
- Managing Shared Libraries
 - Library Principles
 - Locating Library Files
 - Library Management Commands

Chapter 7 Documentation and Security

- Using Local System Documentation
- Using Linux Manual Pages
- Using Package Documentation
- Finding Linux Documentation and Help on the Internet
- The Linux Documentation Project
- Additional Online Help Resources
- Communicating with Users
- Restricting Access by Ports
 - Common Server Ports
 - Configuring a Firewall
 - Using Super Server Restrictions
 - Disabling Unused Servers
- Package and Program Security
 - Tracking Down SUID/SGID Programs
 - Verifying Package Integrity
 - Keeping Packages UP-to-Date
- Passwords
 - Password Risks
 - Choosing a Good Password
 - Tools for Managing Passwords
- Configuring User-Level Security
 - Configuring Mail Aliases
 - Setting Login, Process, and Memory Limits

Chapter 3 Configuring Hardware

- Configuring the BIOS and Core Hardware
 - Understanding the Role of the BIOS
 - IRQs
 - I/O Addresses
 - DMA Addresses
 - The Real-Time Clock
 - Boot Disks and Geometry Settings
- Configuring Expansion Cards
 - Configuring ISA Devices
 - Configuring PCI Devices
- Configuring Modems
 - Functions of Modems
 - Setting the RS-232 Serial Port Characteristics
 - Winmodem Detection and Avoidance
 - Using Broadband Hardware
- Configuring USB Devices
 - USB Basics
 - Linux USB Drivers
 - USB Manager Applications
- Configuring Sound Cards
- Configuring SCSI Devices
 - Varieties of SCSI
 - SCSI IDs
 - SCSI Termination
 - Identifying SCSI Hardware
- Designing a Hard Disk Layout
 - Why Partition?
 - Types of Disk Partitions
 - Mount Points
 - Common Partitions and Filesystems
- Creating Partitions and Filesystems
 - Partitioning a Disk
 - Preparing a Partition for Use
- Installing Boot Loaders
 - Boot Loader Principles
 - Using LILO or GRUB

Chapter 8 Administering the System

- Managing Users and Groups
 - User and Group Concepts
 - Configuring User Accounts
 - Configuring Groups
- Tuning User and System Environments
- Using System Log Files
 - Understanding syslogd
 - Setting Logging Options
 - Rotating Log Files
 - Reviewing Log File Contents
- Maintaining the System Time
 - Linux Time Concepts
 - Setting the Time Zone
 - Manually Setting the Time
 - Using NTP
- Running Jobs in the Future
 - The Role of cron
 - Creating System cron Jobs
 - Creating User cron Jobs
 - Using anacron
 - Using at
- Backing Up the System
 - Common Backup Hardware
 - Common Backup Programs
 - Backing Up a Computer
 - Planning a Backup Schedule
 - Preparing for Disaster: Backup Recovery

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Chapter 4 Managing Files and Filesystems

- Maintaining Filesystems Health
 - Tuning Filesystems
 - Maintaining a Journal
 - Checking Filesystems
 - Monitoring Disk Use
- Mounting and Unmounting Filesystems
 - Temporarily Mounting or Unmounting Filesystems
 - Permanently Mounting Filesystems
- Managing Files
 - File Naming and Wildcard
- Expansion Rules
 - File Commands
 - Managing Links
 - Directory Commands
- Managing File Ownership
 - Assessing File Ownership
 - Changing a File's Mode
 - Setting the Default Mode and Group
 - Changing File Attributes
- Managing Disk Quotas
 - Enabling Quota Support
 - Setting Quotas for Users
- Locating Files
 - The FHS
 - Tools for Locating Files

Chapter 9 Basic Networking

- Understanding TCP/IP Networking
 - Basic Functions of Network Hardware
 - Types of Networks Hardware
 - Network Packets
 - Network Protocol Stacks
 - TCP/IP Protocol Types
- Network Addressing
 - Types of Network Address
 - Resolving Hostnames
 - Network Ports
- Configuring Linux for a Local Network
 - Network Hardware Configuration
 - DHCP Configuration
 - Static IP Address Configuration
 - Configuring Routing
 - Using GUI Configuration Tools
 - Hostname Configuration
- Configuring Linux as a PPP Client
 - Making Basic PPP Connections
 - Using Supplemental PPP Tools
- Diagnosing Local and PPP Connections
 - Testing Basic Connectivity
 - Tracing a Route
 - Checking Network Status
 - Examining Raw Network Traffic
 - Using Additional Tools
- Using a Super Server
 - The Role of a Super Server
 - Configuring inetd
 - Configuring xinetd
- Configuring Printing
 - The Linux Printing Architecture
 - Understanding PostScript and Ghostscript
 - Running a Printing System
 - Configuring BSD LPD and LPRng
 - Configuring CUPS
 - Printing to Windows or Samba Printers
 - Monitoring and Controlling the Print Queue

Chapter 5 The X Window System

- Configuring Basic X Features
 - X Server Options Basic X Features
 - Methods of Configuring X
 - X Configuring Options
 - Fine-Tuning Video Modes
- Configuring X Fonts
 - Front Technologies and Fonts
 - Configuring X Core Fonts
 - Configuring a Front Server
 - Configuring Xft Fonts
- Managing GUI Logins
 - The X GUI Login System
 - Running an XDMCP Server
 - Configuring an XDMCP Server
- Configuring a Desktop Environment
 - Desktop Environment Choices
 - Configuring Linux to Run Your Desktop Environment
 - Configuring the X Environment
 - Configuring a Window Manager
- Using X for Remote Access
 - X Client/Server Principles
 - Using Remote X Clients

Chapter 10 Managing Servers

- Configuring Sendmail
 - E-Mail Basics
 - Setting Sendmail Options for Your System
 - Managing the Mail Queue
 - Sendmail Security Considerations
- Configuring Apache
 - Apache Basics
 - Setting Apache Options for Your System
 - Apache Security Considerations
- Configuring an NSF Server
 - NSF Basics
 - Creating File Exports
 - Mounting NFS Exports
 - NFS Security Considerations
- Configuring Samba
 - Samba Basics
 - Using Samba as a Server
 - Samba Security Considerations
- Using a Forwarding DNS Server
 - DNS Server Basics
 - Setting DNS Options for Your Network
 - Using a Forwarding DNS Server
 - BIND Security Considerations
- Configuring SSH
 - SSH Basics
 - Setting SSH Options for Your System
 - SSH Security Considerations

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Duración aproximada:

60 horas (2 semanas de Lunes a Viernes de 9:00 a 15:00 horas)

Lugar:

Altadena 26. Col. Nápoles, México, D .F.

Formas de pago:

Este pago puede realizarse de cualquiera de las siguientes maneras:

- ❖ Depósito en Banamex cuenta 4923239 Suc. 575 a nombre de Desarrollo y Capacitación en Internet, S. A. de C. V. (CLABE en caso de transferencia electrónica vía Internet 002180057549232394)
- ❖ Cheque a nombre de Desarrollo y Capacitación en Internet, S. A. de C. V.
- ❖ Tarjeta de crédito Master Card, Visa o American Express (Se requiere asistir a las instalaciones para hacer el pago).

Nota:

- ❖ El material es original (respetamos los derechos de autor), se importa y está en inglés técnico.

Incluye:

Material de los cursos, diploma de participación, estacionamiento y servicio de cafetería.