

کمپ نوروزی لینوکس | LPIC1 با 25٪ تخفیف (وضعیت برگزاری: قطعی شده)

کمپ نوروزی لینوکس LPIC1 با تخفیف ویژه

مروری بر دوره

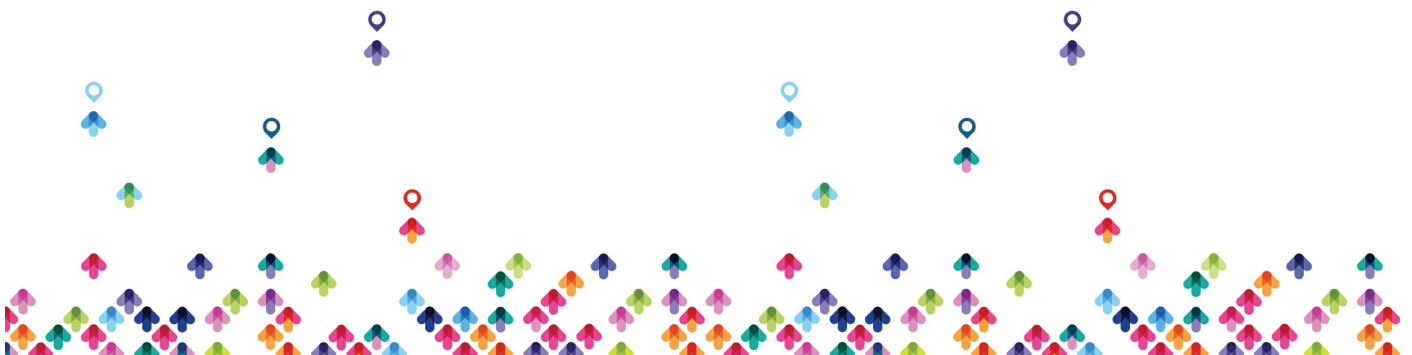
دوره آموزش لینوکس در بین متخصصان فناوری اطلاعات (IT) از اهمیت و جایگاه ویژه ای برخوردار است. دلیل استقبال از دوره های **Linux** این است که لینوکس همچنان در حوزه رایانه جزو ابر قدرت ها و نام های شناخته این بازار به حساب می آید. دوره آموزش لینوکس مقدماتی (**LPIC1**) در بین مدارک ارائه شده توسط موسسه حرفه ای لینوکس (**Linux Professional Institute**) یا به اختصار **LPI**، به عنوان مدرک سطح ابتدایی (**junior-level**) ورود به حوزه لینوکس شناخته می شود. متقاضیان دریافت این مدرک می بایست دو آزمون بین المللی لینوکس به نام های آزمون **101** و آزمون **102** را پشت سر بگذارند.

آنچه در این دوره خواهید آموخت

- آگاهی از معماری سیستم لینوکس
- نصب و نگهداری **Linux workstation**، که شامل **X11** و راه اندازی آن به عنوان یک **client** شبکه می شود
- کار با خط فرمان، که شامل دستورات نام آشنا **GNU** و **Unix** می شود
- مدیریت فایل ها، مجوزهای دسترسی و همچنین امنیت سیستم
- انجام امور ابتدایی مرتبط با تعمیر و نگهداری همچون: کمک به کاربران، افزودن کاربران به یک سیستم بزرگ، پشتیبان گیری و بازیابی، خاموش کردن و راه اندازی مجدد

سرفصل ها

- Linux Fundamentals
 - Unix and its Design Principles
 - FSF and GNU



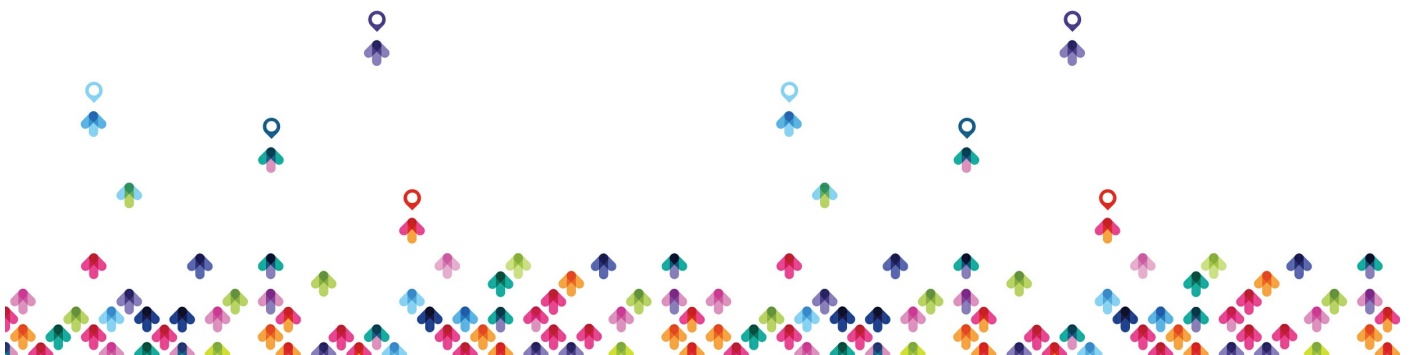
- GPL - General Public License
- The Linux Kernel
- Components of a Distribution
- Red Hat Linux Products
- SUSE Linux Products
- Debian
- Ubuntu
- Logging In
- got root?
- Switching User Contexts
- Gathering Login Session Info
- Lab Tasks
 - Login and Discovery
 - Switching Users With su
- Work on the Command Line Lab Tasks
 - LPI Objectives Covered
 - Role of Command Shell
 - Shells
 - Gathering System Info
 - Identifying the Shell
 - Changing the Shell
 - Bourne sh: Prompts
 - bash: Bourne-Again Shell
 - Help from Commands and Documentation
 - Getting Help with man & info
 - bash: Command Line History



- bash: Command Editing
- bash: Command Completion
- Shell and Environment Variables
- Key Environment Variables
- Help with Commands
- Linux Shells
- Shell Variables
- Bash History
- Aliases
- Use Streams, Pipes, and Redirects Lab Tasks
 - LPI Objectives Covered
 - File Redirection
 - Piping Commands Together
 - Filename Matching
 - File Globbing and Wildcard Patterns
 - Brace Expansion
 - General Quoting Rules
 - Nesting Commands
 - Multiple and Multi-line Commands
 - Gotchas: Maximum Command Length
 - Connecting Commands
 - Wildcard File Matching
 - Shell Meta-Characters
 - Command Substitution
- Manage File Permissions and Ownership Lab Tasks
 - LPI Objectives Covered



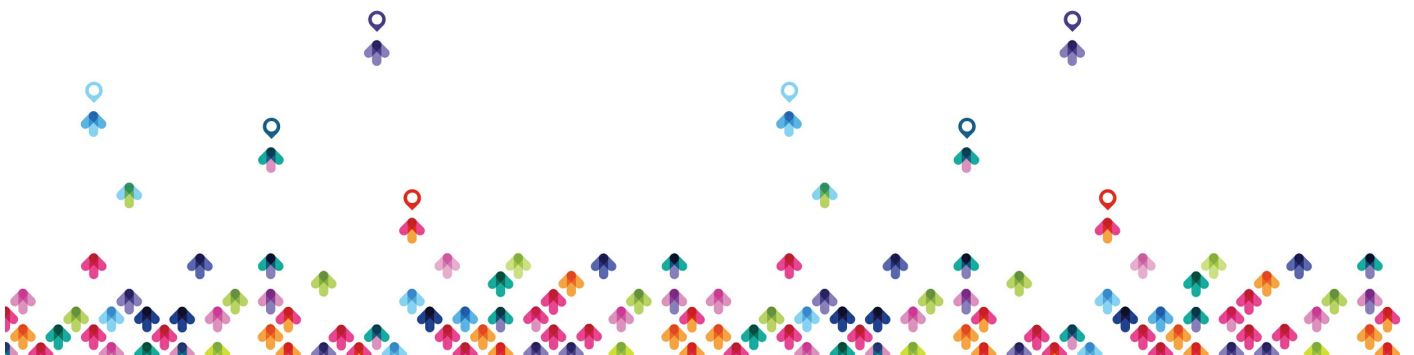
- Filesystem Hierarchy Standard
- Navigating the Filesystem
- Displaying Directory Contents
- Filesystem Structures
- Determining Disk Usage With df and du
- File Ownership
- Default Group Ownership
- File and Directory Permissions
- File Creation Permissions with umask
- Changing File Permissions
- SUID and SGID on files
- SGID and Sticky Bit on Directories
- User Private Group Scheme
- Navigating Directories and Listing Files
- Disk and Filesystem Usage
- File and Directory Ownership and Permissions
- Create, Delete, Find, and Display Files Lab Tasks
 - LPI Objectives Covered
 - Directory Manipulation
 - File Manipulation
 - Deleting and Creating Files
 - Physical Unix File Structure
 - Filesystem Links
 - File Extensions and Content
 - Displaying Files
 - Previewing Files



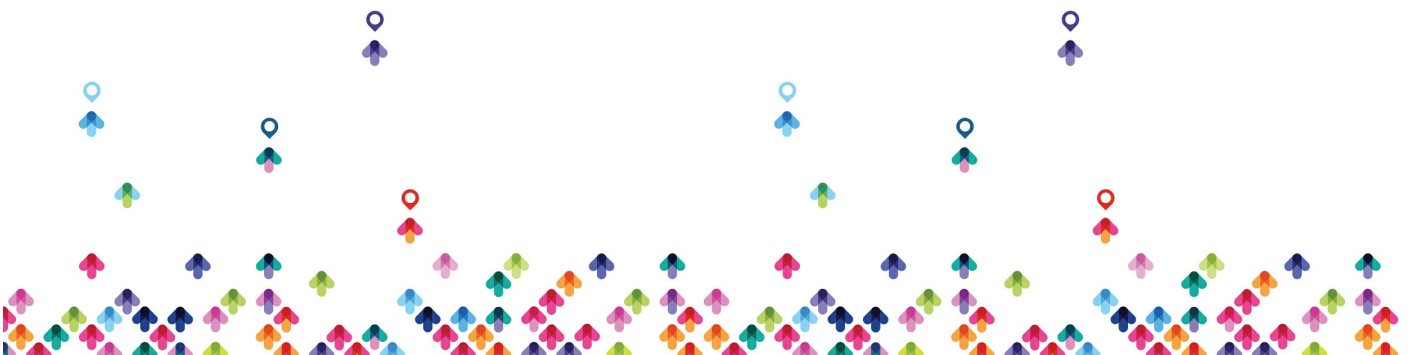
- Displaying Binary Files
- Which and Type
- whereis
- Searching the Filesystem
- Alternate Search Method
- Manually Installed Shared Libraries
- Manipulating Files and Directories
- Work with Archives and Compression Lab Tasks
 - LPI Objectives Covered
 - Archives with tar
 - Archives with cpio
 - The gzip Compression Utility
 - The bzip2 Compression Utility
 - The PKZIP Archiving/Compression format
 - Archiving and Compression
 - Using tar and cpio for Backups
- Process Text Streams Using Filters Lab Tasks
 - LPI Objectives Covered
 - Producing File Statistics
 - The Streaming Editor
 - Text Processing with awk
 - Replacing Text Characters
 - Text Sorting
 - Duplicate Removal Utility
 - Extracting Columns of Text
 - Combining Files and Merging Text



- Text Processing
- Processing Text Streams
- Search Text Files Using Regular Expressions Lab Tasks
 - LPI Objectives Covered
 - Searching Inside Files
 - Regular Expression Overview
 - Regular Expressions
 - RE Character Classes
 - RE Quantifiers
 - RE Parenthesis
 - Pattern Matching with Regular Expressions
 - Extended Regular Expressions
 - Using Regular Expressions With sed
- Perform Basic File Editing Operations Using vi Lab Tasks
 - LPI Objectives Covered
 - Text Editing
 - vi and Vim
 - Learning vi
 - Basic vi
 - Intermediate vi
 - Text Editing with Vim
- Create, Monitor, and Kill Processes Lab Tasks
 - LPI Objectives Covered
 - What is a Process?
 - Process Lifecycle
 - Process States



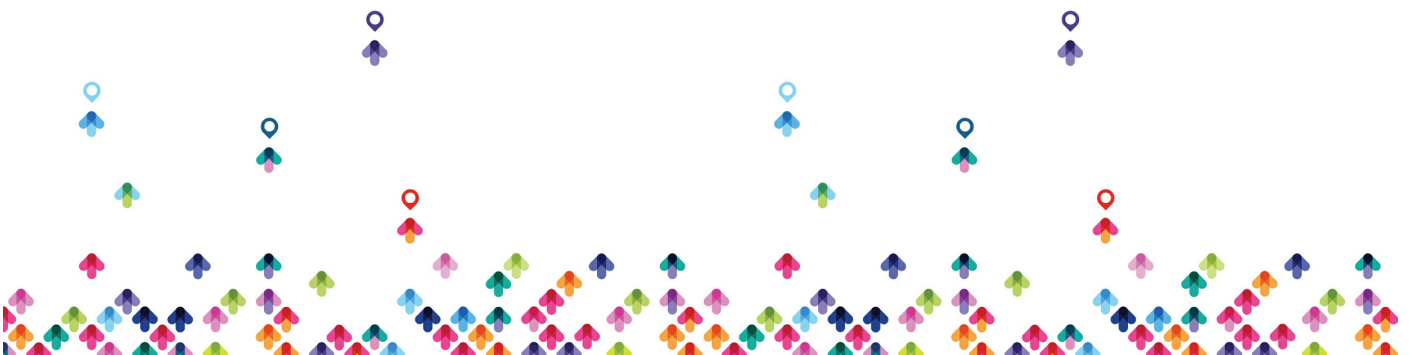
- Viewing Processes
- Signals
- Tools to Send Signals
- Job Control Overview
- Job Control Commands
- nohup and disown
- Managing Processes
- Tuning Process Scheduling
- uptime
- Job Control Basics
- Process Management and Job Control Basics
- Use RPM, YUM, and Debian Package Management Lab Tasks
 - LPI Objectives Covered
 - Managing Software
 - RPM Architecture
 - Working With RPMs
 - Querying and Verifying with rpm
 - Installing Debian Packages
 - Querying and Verifying with dpkg
 - The alien Package Conversion Tool
 - Managing Software Dependencies
 - Using the YUM command
 - yumdownloader
 - Configuring YUM
 - The dselect & APT Frontends to dpkg
 - Aptitude



- Configuring APT
- Working with RPMs on Ubuntu
- Querying the RPM Database
- Work with Partitions, Filesystems, and Disk Quotas Lab Tasks
 - LPI Objectives Covered
 - Partition Considerations
 - Filesystem Planning
 - Partitioning Disks with fdisk
 - Partitioning Disks with parted
 - Filesystem Creation
 - Filesystem Support
 - Unix/Linux Filesystem Features
 - Swap
 - Selecting a Filesystem
 - Filesystem Maintenance
 - Mounting Filesystems
 - Mounting Filesystems
 - Managing an XFS Filesystem
 - NFS
 - SMB
 - Filesystem Table (/etc/fstab)
 - Configuring Disk Quotas
 - Setting Quotas
 - Viewing and Monitoring Quotas
 - Hot Adding Swap
 - Accessing NFS Shares



- Setting User Quotas
- Linux Boot Process Lab Tasks
 - LPI Objectives Covered
 - Booting Linux on PCs
 - GRUB Configuration
 - GRUB 2
 - Boot Parameters
 - /sbin/init
 - System Init Styles
 - Linux Runlevels
 - /etc/inittab
 - /etc/rc.d/rc.sysinit
 - SUSE /etc/init.d/boot
 - System Initialization
 - Runlevel Implementation
 - systemd System and Service Manager
 - systemd Targets
 - Using systemd
 - Shutdown and Reboot
 - Boot Process
 - GRUB Command Line
 - Basic GRUB Security
 - Basic GRUB Security
- Determine and Configure Hardware Settings Lab Tasks
 - LPI Objectives Covered
 - Managing Linux Device Files



- Hardware Discovery Tools
- Configuring New Hardware with hwinfo
- PC Architecture and Bus
- DMA & IRQ
- USB Devices
- USB Configuration
- Configuring Kernel Components and Modules
- Kernel Modules
- Handling Module Dependencies
- Configuring the Kernel via /proc/
- Kernel Hardware Info /sys/
- /sys/ Structure
- Adjusting Kernel Options

