LPIC1-101 - Linux System Administrator

Linux - Linux - Sistemistica

Durata:	Lingue:	Certificazione:
4 Giorni	**Italiano**	**-**

Descrizione del corso

The course LPIC1 – 101 allows to acquire specialized knowledge of Linux operating systems. At the end of the course participants will be able to: • Work with Linux command line; • Perform simple maintenance operations: help users, add users to a bigger system, backup and restoration, stopping/starting; • Install and configure a workstation, connect it to a LAN network and/or directly to the internet. The course prepares participants for the certification exam LPI 101 (the first of the two exams of LPIC-1 level).

Programma

System architecture

• Managing and configuring the hardware
– Retrieving hardware information (lsusb, lspci, etc...)
– Basic concepts of sysfs, udev, dbus
• System boot
– System boot process
– Basic GRUB commands and kernel options
– Basic concepts of SysVInit, systemd and Upstart
– Controlling events in the boot phase
• Managing runlevels and targets, shutdown and reboot of the system

Installing Linux and managing packages

• Defining a partitioning scheme for the installation
• Installing and configuring GRUB2 e GRUB Legacy boot loaders
• Managing shared libraries
– Identifying shared libraries and their typical localization

– Loading shared libraries
• Installing a new software
– Debian package management
– RPM (Red Hat Package Manager) and YUM

GNU commands and Linux

• Working from the command line
– Basic structure of commands (options, topics, command sequences etc.)
– Using and editing the chronology of commands
– Using environment variables to edit shell environment
• Using filters to manage text streams
– Sed stream editor
• File basic management
– copying, moving, removing and searching files and directory
– compression and archive utilities
• Redirection and pipe
• Creating, monitoring and ending processes
– Job control
– Monitoring utilities
– Editing a process priority
• Using regular expressions and related utilities
• Using vi editor

Devices and Filesystems

• Creating partitions and filesystems
• Maintenance tools and utilities of a filesystem
• Configuring the filesystem assembly
• Disk quota management
• Managing permissions and file property
• Managing hard links and symbolic links
• Filesystem control