

Module Linux I

LPI 101 – Junior Level Administration (LPIC-1)

Management Summary

In this course the participants will acquire basic knowledge about the structure and functionalities of GNU/Linux. They learn about the basic components and performance characteristics of LINUX and their advantages with regard to security, stability and flexibility. Students will be prepared for basic system administration tasks such as installation and maintenance of a LINUX system. In this context they will learn about important concepts of the operating system. To a large degree this knowledge can not only be applied to Linux but also to other systems derived from UNIX.

The content of the course is in compliance with the requirements of the examination 101 of the Linux Professional Institute Certification (LPIC) program. This program provides for a certification of student knowledge which is independent from manufacturers. The certification program of the Linux Professional Institute is internationally recognised as the leading one in the LINUX community.

Objective

The course participants are expected to reach the point where they are able to install a basic GNU/LINUX system and to configure elementary services. The course is also meant to prepare for the examination 101 of the LPIC program which is intended for future administrators of LINUX systems.

The LPIC-1 certificate (Junior Level Administration) is obtained in association with the examination 102 (see Linux Module II).

Audience

- Security administrators
- Engineers
- System administrators

Course content

LINUX installation and packet management

- Design of hard disk partitioning
- Management of program libraries of software packages

Administrative activities

- Administration of user accounts and groups

GNU- and UNIX commands

- Working on the command line
- Basics of file management
- Working on texts using filter programs
- Use of streams, pipes and diversions
- Starting, controlling and terminating processes
- Modification of processing priorities
- Searching text files using regular expressions
- Basics of file handling with vi

LINUX file systems

- Creating partitions and file systems
- Preserving the integrity of file systems
- Control of the mounting and unmounting of file systems
- Access control using access rights
- Administration of file owner rights
- Creating and modifying links

The X-Window-system

- Installation and configuration of X11
- Setting up a display-manager
- Installation and customisation of a window-manager

Duration of the course

5 days

8 am to 12 am, 1.30 pm to 5.30 pm

The course is divided into a two-day and a three-day module.

Preliminary knowledge/Preparation

Students are expected to have a solid basic knowledge of the functioning mode of PC hardware and TCP/IP networks.

Contact

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