

Module Linux II

LPI 102 – Junior Level Network Administration (LPIC-1)

Management Summary

The participating students will acquire basic knowledge about the structure and functioning mode of GNU/Linux. The students will be prepared for basic system administration tasks such as the installation and maintenance of a Linux system. In this context, they will learn about important concepts of the system.

The content of the course is in compliance with the requirements of the examination 102 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 students shall acquire a solid basic knowledge of the GNU/Linux operating system, of the Linux kernel and the system utilities. This course prepares the students for the examination 102 of the LPIC program. This LPIC examination is intended for future system administrators of GNU/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

Kernel

- Administration of kernel modules
- Configuration and creation of a customised kernel

System start and shutdown

- System start
- Customisation of the run levels
- Configuration of boot managers

Printing

- Administration of printers and print queues
- Installation and configuration of local printers and network printers

Shells and scripting

- Customisation and use of the shell environment
- Customisation and writing of simple shell scripts

Administrative activities

- Configuration and evaluation of system log files
- Time controlled execution of jobs
- Tools and strategies for data security
- Maintenance of the system time

Network

- Basic network tools and services
- Troubleshooting of network problems
- Point-to-Point Protocol (PPP)
- Inetd and xinetd services
- Basic configuration of a mail transfer agent (MTA)
- Basic configuration of Apache
- Administration of NFS and Samba
- Basic DNS services

Security

- Protecting a computer
- Security at the user level
- Administration of disk quotas

Course duration

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

The course for the module Linux I must have been completed previously. This course prepares for the for the Linux modules III and IV.

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

Contact

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