

Module Linux IV

LPI 202 – Advanced Level Network Administration (LPIC-2)

Management Summary

The students will widen their knowledge about the Linux system and will acquire the knowledge required for the professional maintenance of server systems. The course is focused on the utilities Mail, HTTP (Web) and the directory services NIS, LDAP und DNS. In the field of networks the themes covered are IP routing, usage of firewalls and VPN. To a large extent, this knowledge can not only be applied to Linux but also to other operating systems derived from Unix.

The content of the course is in compliance with the requirements of the examination 202 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.

Objectives

The objective of the course is the preparation of the examination 202 of the LPIC program. This examination is intended for future system administrators of Linux systems.

The LPIC-2 (Advanced Level Administration) certificate is obtained in association with the examination 201 (see Linux module III).

Audience

- Security administrators
- Engineers
- System administrators

Course content

Network

- Advanced Network configuration
- Packet filter (iptables/netfilter)
- IP-routing
- OpenVPN

Server utilities

- Mailing lists and mail filtering (procmail)
- DNS-server
- Apache server (virtual hosts, SSL, authentication, PHP integration, tuning of the server parameters
- Server parameter)
- Squid (Proxy server)
- Mail server
- DHCP-server
- FTP-server (chrooted)
- TCP-wrappers
- Network troubleshooting

User administration

- NIS server / -client
- LDAP server / -client
- PAM

Duration of course

5 days

8 am – 12 am, 1.30 pm – 5.30 pm

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

Preliminary knowledge/Preparation

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

The course for the module Linux III must have been completed previously. The Linux course modules are intended as a complement for the security courses OPST and OPSA.

Contact

Dreamlab Technologies Ltd,
Mailto: education@dreamlab.net