LPI 102. Linux administration and networking (code: LPI-102)

Overview

The fundamental topics in Linux and network administration: shell script language Bash, users and permissions, processes, boot scripts, programs, basic server services, protocols - including TCP/IP, addressing and routing. Training is authorized by **Linux Professional Institute**

This training is a second part of our LPIC-1 certification path - a followup to the LPI-101 training. Learning material covered by these two training courses allows to pass the LPIC-1 exam.

After LPI 102, we suggest:
— (if you took the LPI 101 course or mastered the material on your own) taking the LPIC-1 exam,
— continuing learning on LPIC-2 level - through the complete Advanced Linux Administrator course, or LPI 201 and LPI 202 training courses.

To persons interested in acquiring the complete knowledge required by LPIC-1 exam from the very basics, we recommend our long course Linux Administrator. It not only covers all the material covered by LPI 101 and LPI 102 training courses - it has also a module on selected network services, and costs less than the two training courses combined.

This training is equivalent to days 5-8 of the Linux Administrator course.

Ask for details
Phone +44 203 608 6289
info@alx.academy

Coming courses
2027-04-04 (Online (English))

Duration

5 days, 9:00 - 17:00

Agenda

1. Automating work: shell scripts
   — operations on text, variables
   — conditions
   — loops
   — functions
2. Users
   — users, groups - adding, deleting, configuring
   — pam
   — administrators – sudo
3. Finding files
4. SQL fundamentals - topics important for a future administrator
   — databases (tables, data types)
   — SQL basics (SELECT, INSERT, UPDATE, DELETE)
5. X-window
   — basic configuration (support tools)
   — architecture (incl. networking) with examples
   — basic tools and smart features
6. System customization
   — language, regional settings
   — graphical environment settings
   — accessibility
7. Encryption
8. Fundamental services

- logs
- cron and at
- printing
- NTP

9. Basic e-mail configuration
   - sending e-mails
   - redirecting and aliases
10. Basic network configuration
11. Computer networks - an overview
    - topologies
    - network hardware and technologies
12. TCP/IP and ISO/OSI model
    - local area networks and the problem of connecting networks
    - addresses, ARP and RARP
    - IP protocol (IPV4 and IPV6) and routing
    - ICMP
    - TCP and UDP
13. Configuring network interfaces
    - scripts
    - manual setting up interfaces (ip command)
    - tools such as ping, traceroute, mtr, whois
    - resolving names. DNS.
14. DHCP
    - how the protocol and the services work
    - basic configuration of the server and the client
15. Remote working
    - ssh (keys, X forwarding, ports, scp and sftp)
16. Security fundamentals
    - identifying devices (nmap, server version identification)
    - basic intrusion techniques (buffer overflow, string format)
    - critical rules
17. Identifying and solving problems
    - prevention: backup strategies and methods
    - what to do in case of a catastrophe

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Target audience and prerequisites

Basic familiarity with Linux, ability to use the command line and familiarity with the shell.

Certificates

Course participants receive completion certificates signed by ALX.

Locations

- Warsaw (English) – Jasna 14/16A
- Online (English) – your home, office or wherever you want
- any other location (London, UK, EU) on request

Price

840 EUR

The price includes:

— course materials,
— snacks, coffee, tea and soft drinks,
— course completion certificate,
— one-time consultation with the instructor after course completion.

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Coming courses
2027-04-04 (Online (English))