

# LPI 303 - Cryptography, Access Control, Services and Network Security (code: LPI-303)

## Ask for details

Phone +44 203 608 6289

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## Overview

*Cryptography, Access Control, Services and Network Security* is an intensive, lab-oriented training course for administrators and specialists who work with Linux and its applications. Its aim is to deepen their knowledge about the necessary and the most important aspects of Linux security. The course covers: **cryptography** (Open SSL, GPG, data encryption), **access control** (e.g. PAM, ACL and EA, SELinux), **application security** (e.g. Apache/HTTP/HTTPS, Postfix, FTP, SSH) and **network security** (e.g. snort, nmap, wireshark, tcpdump, nagios).

The contents of this training course are essential for anyone who is responsible for systems and services security.

We are an approved training partner of **Linux Professional Institute**. *Security of Linux System and Services* covers the topics needed for **LPIC-3 303** exam. After passing that exam, you will acquire LPIC-3 Linux Enterprise Professional certificate.

## Duration

4 days

## Agenda

1. Cryptography
  - Open SSL - configuration and use
  - GPG (encryption and signing, management, configuration)
  - Data encryption (LUKS, dm-crypt)
2. Access control
  - PAM
  - nsswitch
  - Access Control Lists (ACLs) and Extended Attributes (EAs)
  - SELinux
  - AppArmor and SMACK - introduction
3. Services and applications security
  - BIND/DNS - secure configuration
  - Postfix mail server
  - HTTP server (Apache v1 and v2 security issues, htpasswd, SSL)
  - FTP (Pure-FTPd and vsftpd)
  - ssh server (OpenSSH)
  - NFS: Network File System (security and access control mechanisms)
4. Network security
  - Snort - configuration, rules, use
  - Tripwire
  - Network scanning (nmap, wireshark, tcpdump, nessus)
  - Monitoring (nagios, ntop)
  - Network traffic filtering (iptables)
  - VPN (OpenVPN-configuration and use)

## Target audience and prerequisites

Participants should have the knowledge equivalent to the contents of LPIC-1 and LPIC-2 training courses.

## Certificates

Course participants receive completion certificates signed by ALX.

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## Locations

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

## Price

1240 EUR

The price includes:

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