

## LPI 304: Linux Virtualization and High Availability (code: LPI-304)

### Overview

*Linux Virtualization and High Availability* is an intensive, lab-oriented class for Linux administrators and specialists. During this training course we introduce the best practices of multiple virtualization techniques (Xen, KVM, OpenVZ and VirtualBox) and high availability systems configuration (e.g. cluster and load balancing, HA solutions in Red Hat Linux and SUSE Linux).

This training course is a practical overview of virtualization and HA techniques.

We are an approved **Linux Professional Institute** training partner. *Linux Virtualization and High Availability* covers the topics needed for LPIC-3 304 exam. After passing that exam, you will acquire **LPIC-3 Linux Enterprise Professional** certificate.

### Ask for details

Phone +44 203 608 6289

info@alx.training

### Duration

4 days

### Agenda

1. Virtualization
  - Concepts, mechanisms, terminology
2. Configuration and underlying ideas of the most common solutions
  - Xen
  - KVM
  - OpenVZ, VirtualBox, LXC – overview
  - Libvirt and virsh
3. Working in the cloud (introduction):
  - OpenStack
  - CloudStack
  - Eucalyptus
  - OpenNebula
4. High availability solutions (HA)
  - Properties, design approaches, main components
  - Load balancing
  - LVS / IPVS
  - Virtual Router Redundancy Protocol (VRRP)
  - Keepalived
  - Ldirectord
  - HAProxy
  - Pacemaker (design and components: CIB, CRMd, PEngine, LRMd, DC, STONITHd)
  - Fundamentals of HA in Red Hat Linux Enterprise and SUSE Linux Enterprise
5. Understanding DRBD
  - Modes and management
  - Basic configuration
  - Integration with Pacemaker
  - cLVM and integration with Pacemaker
6. Clustered File Systems
  - GFS2
  - OCFS2

## Target audience and prerequisites

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

## Certificates

Course participants receive completion certificates signed by ALX.

## 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.

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