

## LPI 101. An introduction to Linux administration (code: LPI-101)

### Overview

The basics of using Linux as an administrator and the fundamental tools an administrator needs : console, commands, text editors, system architecture, permissions, system setup, configuration. Training is authorized by **Linux Professional Institute**

This training is a first part of our LPIC-1 certification path - the suggested continuation is the LPI-102 training. Learning material covered by these two training courses allows to pass the LPIC-1 exam.

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 the first four days of the Linux Administrator course.

### Duration

5 days

### Agenda

1. Linux console: the basics
  - the most important commands
  - basic administration tools at a glance: mc and vim
2. The file system - where and what to look for
3. General principles of the system
  - users, groups and access rights (basics)
  - processes
  - boot procedure
  - how system components are connected:
    - pseudo-files
    - network ports
    - configuration files and logs
    - signals
    - static and dynamic links
  - names, functions and characteristics of each part of the system
  - how to setup the system (configuration via GUI, text and scripts)
4. Working in the shell:
  - shell scripts
  - core-utils
  - sed
5. Regular Expressions
6. Vim
7. The boot process
  - differences between the distributions
  - lilo and grub
  - kernel parameters
  - init and inittab, upstart
  - startup scripts
  - launch services

### Ask for details

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### Coming courses

2026-03-28 (Online (English))

8. Controlled installation
  - installing the example distribution in expert mode
  - nuances: authentication, partitioning
9. Software installation
  - configure, make, make install
  - rpm and deb
  - apt and yum
10. Processes
  - outline of the operating systems theory
  - system monitoring
  - signals
  - loading libraries, tracking execution
11. Operating System vs Hardware:
  - device files, logging
  - lspci, lsusb, hotplug
  - udev
12. Administrator's view on system architecture
  - kernel, modules, libraries
  - providing context for the rest of the course
13. Administrator's view on the filesystem
  - where to find binaries, libraries, configuration files, logs, data, documentation etc.
  - /proc file system
14. The file system
  - file types
  - permissions (suid etc.)
  - creating a file system (mkfs. \*, mkisofs)
  - mount - practical aspects: fat and other file systems, -o loop, choosing a file system

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**Target audience and prerequisites**

From participants we do not require any experience with Linux, but only general familiar with Windows (efficient system management, common programs and the Internet).

**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.