

# Linux – Administration

Course code: LXI2

The course is designed for Linux operating system servers administrators who will learn common and advanced tasks related to the administration of the system. The participants in the course will learn to administrate operating system Linux, to work with the command interpreter, to administrate the processes, to plan the functions, to back up the important data, to track the performance and monitor the system load. The participants will also learn to set and to monitor the system logging, to configure the starting scripts of the operating system, etc.

Affiliate	Duration	Course price	ITB
Praha	3	11 700 Kč	30
Brno	3	11 700 Kč	30
Bratislava	3	510 €	30

The prices are without VAT.

## Course terms

Date	Duration	Course price	Type	Course language	Location
09.04.2025	3	11 700 Kč	Online	CZ/SK	Gopas Praha Online
09.04.2025	3	510 €	Online	CZ/SK	Gopas Bratislava Online
23.04.2025	3	11 700 Kč	Presence	CZ/SK	Gopas Praha Prezenční
14.05.2025	3	11 700 Kč	Presence	CZ/SK	Gopas Brno Prezenční
18.06.2025	3	11 700 Kč	Presence	CZ/SK	Gopas Praha Prezenční
25.06.2025	3	510 €	Presence	CZ/SK	Gopas Bratislava Prezenční
13.08.2025	3	11 700 Kč	Online	CZ/SK	Gopas Praha Online
13.08.2025	3	510 €	Online	CZ/SK	Gopas Bratislava Online

The prices are without VAT.

## What we teach you

The course participants will learn to administer operating system LINUX , to work with command interpreter, to administrate the processes, to plan the functions, to back up the important data, to track the performance and monitor the system load. The participants will also learn to set and to monitor the system logging, to configure the starting scripts of the operating system, etc.

## Course outline

Command interpreter BASH

Basics of working with BASH, shell login, change of the Shell

Commands history, addition, configuration

Variable environment, aliases

Redirections, pipes

Administration of the processes

Control of the tasks (jobs control)

Processes administration, signals

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# Linux – Administration

## System administration

Information about system sources, top tools, directory/proc and /sys

Start of the system, init process (upstart process)

Starting rc scripts

Monitoring of the system load

## Logging and system monitoring

Principle of the log gathering in the UNIX system

Syslogd and Rsyslogd

Log rotation

Log analyses

## Tasks planning according to time

Tasks planning using at, cron, fcron.

Setting of the right time, NTP protocol

## Backing up

Methods of backing up, total incremental, block, file

Tools tar, cpio, partclone, dump-restore, rsync, rdiff-backup

## Linux core

Functions of the system core

GRUB boot loader

Core moduls, tools for working with moduls

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