

# UNIX/Linux – Security, Secure Communication and Cryptography

Course code: UNIXB2

This course is designed for network server administrators who need secure both data on the server server and the communication with the server. The participants will familiarize themselves with the basics of encryption in the computer security field. They will also learn to work with PGP (GnuPG), SSL, DM-Crypt systems, etc.

Affiliate	Duration	Course price	ITB
Praha	1	4 500 Kč	10
Brno	1	4 500 Kč	10
Bratislava	1	200 €	10

The prices are without VAT.

## Course terms

Date	Duration	Course price	Type	Course language	Location
06.12.2024	1	4 500 Kč	Presence	CZ/SK	GOPAS Praha
28.02.2025	1	4 500 Kč	Presence	CZ/SK	GOPAS Praha
17.03.2025	1	200 €	Online	CZ/SK	GOPAS Bratislava online
07.05.2025	1	4 500 Kč	Presence	CZ/SK	GOPAS Praha
21.07.2025	1	200 €	Presence	CZ/SK	GOPAS Bratislava prezenčne

The prices are without VAT.

## Who is the course for

The course is designed for network administrators and network server administrators who use OS UNIX and who would like to learn to make the communication of these servers with their surroundings secure.

## What we teach you

The participants will learn basic principles of cryptography and encryption in the computer security field. They will also learn how to implement PGP (GnuPG), SSL systems, etc.

## Required skills

Good knowledge of OS UNIX

## Teaching materials

GOPAS study materials

## Course outline

Basic principles, methods and applications of cryptography

Overview and the use of common cryptographic algorithms - HASH function, symmetric/conventional and asymmetric methods

HASH function, overview of characteristics and the use (MDx, SHAx, etc.)

Symmetric methods, overview of characteristics and the principle of running of these algorithms (DES, 3DES, AES, etc.)

Asymmetric methods, overview of characteristics and the principle of running of these algorithms, application (DH, RSA, DSA, etc.)

Some chosen applications, digital signature, confidential relations - certificates, etc.

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# UNIX/Linux – Security, Secure Communication and Cryptography

Practical applications of cryptography

PGP (GnuPG) system, application

SSL/TLS system, implementation of OpenSSL

Work with keys and certificates

Stunnel programme

Encrypted disks using CryptoLoop and DMCCrypt

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