

VPNs in theory and practice (code: VPN)

Overview

Participants learn the principles of virtual private networks and configuration details of most common VPN solutions on Linux.

Ask for details

Phone +44 203 608 6289 info@alx.academy

Duration

1 day

Agenda

- 1. Overview of related concepts: network protocol stack, ISO/OSI model
 - frame structure at each layer
 - IP, ICMP, UDP and TCP protocols, reliable connections, retransmissions
- 2. Encryption, symmetric and public-key, RSA
- 3. Security, man-in-the-middle attacks
- 4. VPNs
 - common uses, operation principles
 - examples
 - when not to use
- 5. IPsec, IPsec on Linux
- 6. StrongSWAN, OpenSWAN
- 7. Eavesdropping
- 8. PPTP (Point-to-Point Tunelling Protocol)
 - when to use
 - PPTP/MPPE architecture, Linux as a PPTP server with Windows as a client
 - Linux as a PPTP client
- 9. OpenVPN

Target audience and prerequisites

The course targets at least intermediate-level Linux system/network administrators.

Participants must have good knowledge of general Linux administration and network configuration.

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

490 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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