

## 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

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### 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

- Online (English) – your home, office or wherever you want
- Warsaw (English) – Jasna 14/16A
- 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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