

# Digital signature and encryption with OpenSSL and GnuPG (code: LX-CRYPT)

## Overview

A course for everyone who wants to understand and use modern cryptography tools for data protection. Participants learn how to: create, modify, import and export keys, encrypt, decrypt and sign emails and files, send their public key to a keyserver, revoke their public key, participate in a keysigning party.

## Ask for details

Phone +44 203 608 6289

info@alx.academy

## Duration

1 day

## Agenda

1. Encoding and encryption
2. Symmetric and asymmetric cryptography
3. Hash functions
4. Digital signature principles
5. Encryption and digital signature scope of use
6. Introduction to OpenSSL and GnuPG
7. X.509 and PKCS #11 standards
8. Creating keys: key length, algorithm choice, key management: exporting, importing, revoking
9. Digitally signing and encrypting documents using keys
10. Keyservers: key validation, sending key to a keyserver
11. Supporting applications
  - GNU Privacy Assistant
  - Seahorse
12. GPG in email clients
  - signing and encrypting email
  - Outlook Express (GPGOE)
  - Mozilla (EnigMail)

## Target audience and prerequisites

Participants are expected to have basic computer skills (Windows or Linux) and know how to use an email client (Outlook or Thunderbird).

## 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.

**Ask for details**

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