



# Introduction to cybersecurity

Duration 3 day(s) (INIT-SECU)

Issues, actions and legality

## Description

Security is a major issue in the digital world today. A design or security defect can be fatal to a business today: loss of data, resources and trust. This is why it is necessary to train to limit the risk to the maximum and especially to design secure applications (security by design).

## Goals

- To provide the basis for understanding security issues today.
- Integrate security into development projects
- Study the main vulnerabilities present on the Web
- Offensive and defensive approach to security
- Understanding legal issues (CNIL, RGPD)

### *Public*

Developer, Architect, TechLead

### *Prerequisites*

Nil

### *Structure*

40% Theory, 60% Practice

## Program

# Introduction

# Network

- Reminder of OSI and TCP / IP models
- Study of different protocols
- Mapping a network
- Network Attack (MITM, Denial of Service)

# Cryptography

- Fundamentals
- Symmetric and asymmetric encryption
- Certificate and PKI

# SecDevOps

- Source code audit
- Dependency audit

# Web

- Authentication methods
- HTTP protection header
- Studies of the main web vulnerabilities

# Attack vs Defense

- Intrusion tests
- Social engineering
- SIEM
- SOC

# Legal

- CNIL
- RGPD