Updated 07/26/2023

Sign up

SecDevOps training: Security for Agile Development

3 days (21 hours)

PRESENTATION

The SecDevOps approach puts application security at the top of the list of priorities. This is why the term "Sec" for security is placed before "Dev" (meaning development) and "Ops" (meaning operations), as opposed to the DevSecOps approach where security issues are resolved later.

Our SecDevOps training course is aimed at developers using agile methods and practicing DevOps. We'll teach you how to integrate security elements into Devops processes in order to reduce costs and response times following a cybercriminal threat.

This SecDevOps training course will teach you the SecDevOps culture, how to create a secure architecture and how to monitor it. We'll use case studies to put this knowledge into practice.

OBJECTIVES

- Familiarize yourself with the security controls needed to transform an agile development process into SecDevOps
- Master the tools needed to introduce automated security tests.

TARGET AUDIENCE

- Development teams using agile processes in DevOps mode
- Application architects

Prerequisites

Basic knowledge of DevOps culture and agile development processes.

SecDevOps TRAINING PROGRAM

Day 1: Introduction to SecDevOps culture

- Principles and terminologies
- Secure development cycle SDLC
- Safety management in development processes (ISO 27034)
- OWASP Top 10 and OWASP ASVS
- Overview of the main application vulnerabilities (SQLi, XSS, CSRF, etc.).

Day 2: Designing a SecDevOps architecture

- Automated security testing
- Safety monitoring
- Integrating security into development team workflows
- Artificial intelligence for proactive security/defense
- Risk analysis and modeling

Day 3: Case studies

- TP 1: Overview of automated testing using OWASP ZAP and Jenkins
- Practical exercise 2: Combining ZAP, Selenium and Junit for application scanning
- Practical exercise 3: Using the BDD-Security Framework to orchestrate automated scans, and integration into Jenkins

Companies concerned

This course is aimed at both individuals and companies, large or small, wishing to train their teams in a new advanced computer technology, or to acquire specific business knowledge or modern methods.

Teaching methods

Practical course: 60% Practical, 40% Theory. Training material distributed in digital format to all participants.

Organization

The course alternates theoretical input from the trainer, supported by examples, with brainstorming sessions and group work.

Validation

At the end of the session, a multiple-choice questionnaire verifies the correct acquisition of skills.

Sanction

A certificate will be issued to each trainee who completes the course.