

Updated on 11/10/2024

Sign up

Checkmarx training: Ensuring application security

1.5 days (10h30)

PRESENTATION

Our Checkmarx training course will teach you the steps you need to take to secure your applications by carrying out different types of tests. You'll be able to track vulnerabilities that threaten your software in real time.

Thanks to our course, your team will be able to protect each phase of development for each application, balancing the dynamic needs of [CISO](#) and development.

Find out more about automated application security scanning tools such as SAST (Static Application Security Testing), DAST (Dynamic Application Security Testing) or SCA (Software Composition Analysis).

This training will enable your organization to provide a high level of security for applications deployed in the future.

As with all our training courses, this one will introduce you to the latest stable version of Checkmarx (at the time of writing [Checkmarx 1.1](#)).

OBJECTIVES

- Efficiently customize and optimize platform tools
- Automate and integrate in a development factory without slowdowns
- Refine scan policies to reduce the number of results
- Understand the governance models for Checkmarx One platform tools

TARGET AUDIENCE

- Developers
- Ethical hackers
- DevOps
- System administrators
- Project managers

Prerequisites

Basic knowledge of application security.

CHECKMARX TRAINING PROGRAM

General introduction

- Sharing of training objectives and general presentation of the Checkmarx One platform
- General introduction to vulnerabilities and application risks
- Understand how to score and assess the criticality/impact of a vulnerability in general and in the Checkmarx One platform in particular.

Exploring the different modules of the Checkmarx One platform

- Software Composition Analysis (SCA)
 - Operating mode
 - The benefits of SBOM generation/use
 - Possible integration model
 - The importance of defining a security policy for open source library management
 - Exercise/TP: analysis and interpretation of a Checkmarx One SCA report, and drawing up an action plan
- SAST (Static Application Security Testing) analysis
 - Operating mode
 - Integration modes
 - The limits
 - Tips for quickly qualifying scan results and optimizing false positives
 - Exercise/TP: analyze and interpret a Checkmarx One SAST report, and draw up an action plan.
- DAST (Dynamic Application Security Testing)
 - How DAST tools work
 - The differences between DAST tools and manual penetration tests
 - Possible integration modes
 - Limits and measures for large-scale integration
 - Exercise/TP: analyze and interpret a Checkmarx One DAST report, and draw up an action plan.

- API security
 - How SAST works and how to complete SAST analysis results
 - Limits and best practices for large-scale implementation
 - Exercise/TP: analyze and interpret a Checkmarx One API analysis report, and draw up an action plan.
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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.

Positioning on entry to training

Positioning at the start of training complies with Qualiopi quality criteria. As soon as registration is finalized, the learner receives a self-assessment questionnaire enabling us to assess his or her estimated level of proficiency in different types of technology, as well as his or her expectations and personal objectives with regard to the training to come, within the limits imposed by the selected format. This questionnaire also enables us to anticipate any connection or security difficulties within the company (intra-company or virtual classroom) which could be problematic for the follow-up and smooth running of the training session.

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.