

SonarQube Fundamentals

Group Training

Training code	CGASONQBCE
Spoken Language	English
Language Materials	English
Dayparts	4
Price	€1.400,00 excl. VAT No extra costs.

What is SonarQube Fundamentals

SonarQube is a code quality testing tool developed by SonarSource for performing automatic reviews to detect bugs and security vulnerabilities. It can be integrated easily into existing workflows and build pipelines for continuous code inspection. By the end of this course you will know how to set up a SonarQube server and how to use Quality Gate.

Introduction

- Overview of SonarQube features and architecture
- What is SonarCube?
- Why use SonarQube?
- SonarQube installation and configuration in Linux?
- How Sonar Works?
- What is Static Code Analysis?

Getting Started

- Installing and configuring the server
- Navigating the SonarQube server UI
- Setting up SonarScanner with build tools (Gradle, Maven, Ant, etc.)

Integrating with DevOps Tools

- Installing SonarQube
- Installing and configuring Jenkins plugins
- Importing Azure DevOps repositories into SonarQube
- Setting up projects with GitHub Repositories

Running Code Tests and Analysis

- Defining analysis parameters
- Executing tests and generating data
- Working with third- party analyzers



Improving and Maintaining Code Quality

- Analyzing project history
- Defining rules with Quality Profiles
- Enhancing global security features
- Adding coding rules with SonarQube APIs
- Best practices and tips

Troubleshooting

Summary and Next Steps

Who should attend SonarQube Fundamentals

IT professionals who wish to use SonarQube to run code reviews that are fully- integrated into development tool chains, such as Jenkins, GitHub, Azure DevOps.

Project managers, Developers, Architects, QA, Support Engineers, DevOps, DevSecOps, Infosec, Process engineers.

Prerequisites

To make the most of this course, you will need to have:

- Basic knowledge on CI/CD processes.
- Working knowledge with Java.

Objectives

After completing this course, you will be able to:

Set up the necessary development environment to start running automatic code reviews.

- Integrate SonarQube with continuous integration tools, such as Jenkins, Azure DevOps.
- Run continuous code inspections to eliminate bugs and security vulnerabilities.
- Collect and analyze data to drive improvements for code cleanup and maintenance.

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IN/3A-018.18