

Understanding SonarQube

Duration: 1 Day

Hands-On Format: This hands-on class is approximately 70/30 lab to lecture ratio, combining engaging lecture, demos, group activities and discussions with comprehensive machine-based practical programming labs and project work.

Module 1 – Introduction and Architecture

- Introduction to SonarQube
- Architecture Overview
- SonarQube Components
- Code Quality Introduction
- SonarQube Server UI Overview

Module 2 – Installation and Setup

- SonarQube Server Installation
- Sonar Scanner Installation and Demo

Module 3 – Integration with Build Tools

- Sonar Scanner Integration with Apache Maven
- Sonar Scanner Integration with Gradle
- Sonar Scanner Integration with Apache Ant

Module 4 – Integration with DevOps Tools

- Configuring Sonar Scanner with Jenkins
- Trigger Sonar Scanner Analysis from Jenkins

Module 5 – SonarQube Deep Dive

- Cognitive and Cyclomatic Complexity
- Quality Gates
- Quality Profiles
- Rules and Rule Templates
- Users, Groups and Permissions