

SONARLINT GUIDE

VERSION 2.0.0

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1. INTRODUCTON

1.1. DOCUMENT OBJECTIVES

The purpose of this document is to help team members to set-up SonarLint on GoLand 2023.2.2 and IntelliJ IDEA 2023.2.2. This guide will detail all the steps to install and configure SonarLint from scratch.

Warning : due to a new project structure, Goland is no longer a used IDE.

1.2. SONARLINT VERSION

This guide has been written for SonarLint 9.1.0.75538. The team PFE_2023_16 does not guarantee the right functioning for other versions of SonarLint.

2. GoLAND IDE

2.1. TARGET

This guide has been written for GoLand 2023.2.2. The team PFE_2023_16 does not guarantee the right functioning for other versions of GoLand.

Warning : due to a new project structure, Goland is no longer a used IDE.

2.2. INSTALLATION

In order to install SonarLint on GoLand follow the steps below :

- Start GoLand IDE
- Click on Main Menu > File > Settings > Plugins > MarketPlace
- Write "SonarLint" in the search bar
- Click on "SonarLint" > Install
- Restart GoLand IDE

2.3. CONFIGURATION

In order to set-up the rules of SonarLint on GoLand follow the steps below :

- Start GoLand IDE
- Click on Main Menu > File > Settings > Tools > SonarLint > Rules > Restore Defaults
- Activate the following rules for Go
 - "switch" statements should have "default" clauses
 - "switch" statements should not be nested
 - Lines should not be too long
 - Change option "maximumLineLength" to "80"
 - Octal values should not be used
 - Statements should be on separates lines
 - Do not activate Option "headerFormat"
 - Useless "if(true) {...}" and "if(false){...}" blocks should be removed
- Deactivate the following rule for Go until the end of the project
 - Track uses of "TODO" tags
 - Existing TODOs will be fixed if possible depending on time left
 - Created TODOs will be fixed at the end of the project
- Click on Apply > Ok
- Restart GoLand IDE

3. INTELLIJ IDEA IDE

3.1. TARGET

This guide has been written for IntelliJ IDEA 2023.2.2. The team PFE_2023_16 does not guarantee the right functioning for other versions of IntelliJ IDEA.

3.2. INSTALLATION

In order to install SonarLint in IntelliJ IDEA follow the steps below :

- Start IntelliJ IDEA IDE
- Click on Main Menu > File > Settings > Plugins > MarketPlace
- Write "SonarLint" in the search bar
- Click on "SonarLint" > Install
- Restart IntelliJ IDEA IDE

3.3. CONFIGURATION

In order to set-up the rules of SonarLint in IntelliJ IDEA follow the steps below :

- Start IntelliJ IDEA IDE
- Click on Main Menu > File > Settings > Tools > SonarLint > Rules > Restore Defaults
- Activate the following rules for Java
 - "Serializable" classes should have a "serialVersionUID"
 - "main" should not "throw" anything
 - "switch" statements and expressions should not be nested
 - Annotated Mockito objects should be initialized
 - Control structures should use curly braces
 - Equality operators should not be used if "for" loop termination conditions
 - Lines should not be too long
 - Change option "maximumLineLength" to "80"
 - Modulus results should not be checked for direct equality
 - Octal values should not be used
 - Threads should not be started in constructors
 - Do not activate Option "headerFormat"
 - Wildcard imports should not be used
- Deactivate the following rule for Java until the end of the project
 - Track uses of "TODO" tags
 - Existing TODOs will be fixed if possible depending on time left
 - Created TODOs will be fixed at the end of the project
- Activate the following rules for Go
 - "switch" statements should have "default" clauses
 - "switch" statements should not be nested
 - Lines should not be too long
 - Change option "maximumLineLength" to "80"
 - Octal values should not be used
 - Statements should be on separates lines
 - Do not activate Option "headerFormat"
 - Useless "if(true) {...}" and "if(false){...}" blocks should be removed

- Deactivate the following rule for Go until the end of the project
 - Track uses of "TODO" tags
 - Existing TODOs will be fixed if possible depending on time left
 - Created TODOs will be fixed at the end of the project
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- Click on Apply > Ok
- Restart IntelliJ IDEA IDE