

# Importing SpotBugs, FindSecBugs, PMD, Checkstyle Issues Reports

NOTE

This feature requires SQ 7.2+ and SonarJava 5.6+.

## Import of SpotBugs, FindSecBugs Reports

SonarJava allows to import into SonarQube/SonarCloud issues generated by [SpotBugs™](#). Because SpotBugs and FindBugs™ share the same output format, it's also possible to import reports from FindBugs and its extensions ([FindSecBugs™](#), [fb-contrib™](#)). Please refer to the [SpotBugs](#) or [FindSecBugs](#) documentations to know how to generate the issues reports.

Once you have the report generated, you need to feed the property "sonar.java.spotbugs.reportPaths". This property accepts one or more SpotBugs reports, paths to report files should be absolute or relative to the project base directory.

```
sonar.java.spotbugs.reportPaths=./target/spotbugsXml.xml
```

Using [spotbugs-maven-plugin](#), the default name of the report is `spotbugsXml.xml`. Using [findbugs-maven-plugin](#), the default name is `findbugsXml.xml`

Because FindSecBugs, fb-contrib are extensions of SpotBugs, their issues are included in the file generated for SpotBugs issues. There is no specific file for them.

## Import of PMD Reports

Please refer to the [PMD documentation](#) to know how to generate the issues reports.

Once you have the report generated, you need to feed the property "sonar.java.pmd.reportPaths". This property accepts one or more PMD reports, paths to report files should be absolute or relative to the project base directory.

```
sonar.java.pmd.reportPaths=./target/pmd.xml
```

## Import of Checkstyle Reports

Please refer to the [Checkstyle documentation](#) to know how to generate the issues reports.

Once you have the report generated, you need to feed the property "sonar.java.checkstyle.reportPaths". This property accepts one or more Checkstyle reports, paths to report files should be absolute or relative to the project base directory.

```
sonar.java.checkstyle.reportPaths=./target/checkstyle-result.xml
```

## Maven User?

If you are a Maven user and you want to quickly play with all of this:

1. Open your `pom.xml` and in the `<plugins>` section add the following plugins:

```
<plugin>
  <groupId>org.apache.maven.plugins</groupId>
  <artifactId>maven-pmd-plugin</artifactId>
  <version>3.10.0</version>
</plugin>
<plugin>
  <groupId>com.github.spotbugs</groupId>
  <artifactId>spotbugs-maven-plugin</artifactId>
  <version>3.1.1</version>
  <configuration>
    <effort>Max</effort>
    <threshold>Low</threshold>
    <failOnError>>true</failOnError>
    <includeFilterFile>${session.executionRootDirectory}/spotbugs-include.xml</includeFilterFile>
  <plugins>
    <plugin>
      <groupId>com.h3xstream.findsecbugs</groupId>
      <artifactId>findsecbugs-plugin</artifactId>
      <version>LATEST</version> <!-- Auto-update to the latest stable -->
    </plugin>
  </plugins>
</configuration>
</plugin>
```

2. Add or update the <properties> section with:

```
<properties>
  <sonar.java.spotbugs.reportPaths>./target/spotbugsXml.xml</sonar.java.spotbugs.reportPaths>
  <sonar.java.pmd.reportPaths>./target/pmd.xml</sonar.java.pmd.reportPaths>
  <sonar.java.checkstyle.reportPaths>./target/checkstyle-result.xml</sonar.java.checkstyle.reportPaths>
</properties>
```

3. Execute:

```
mvn clean package spotbugs:spotbugs pmd:pmd checkstyle:checkstyle sonar:sonar
```