

## SpotBugs

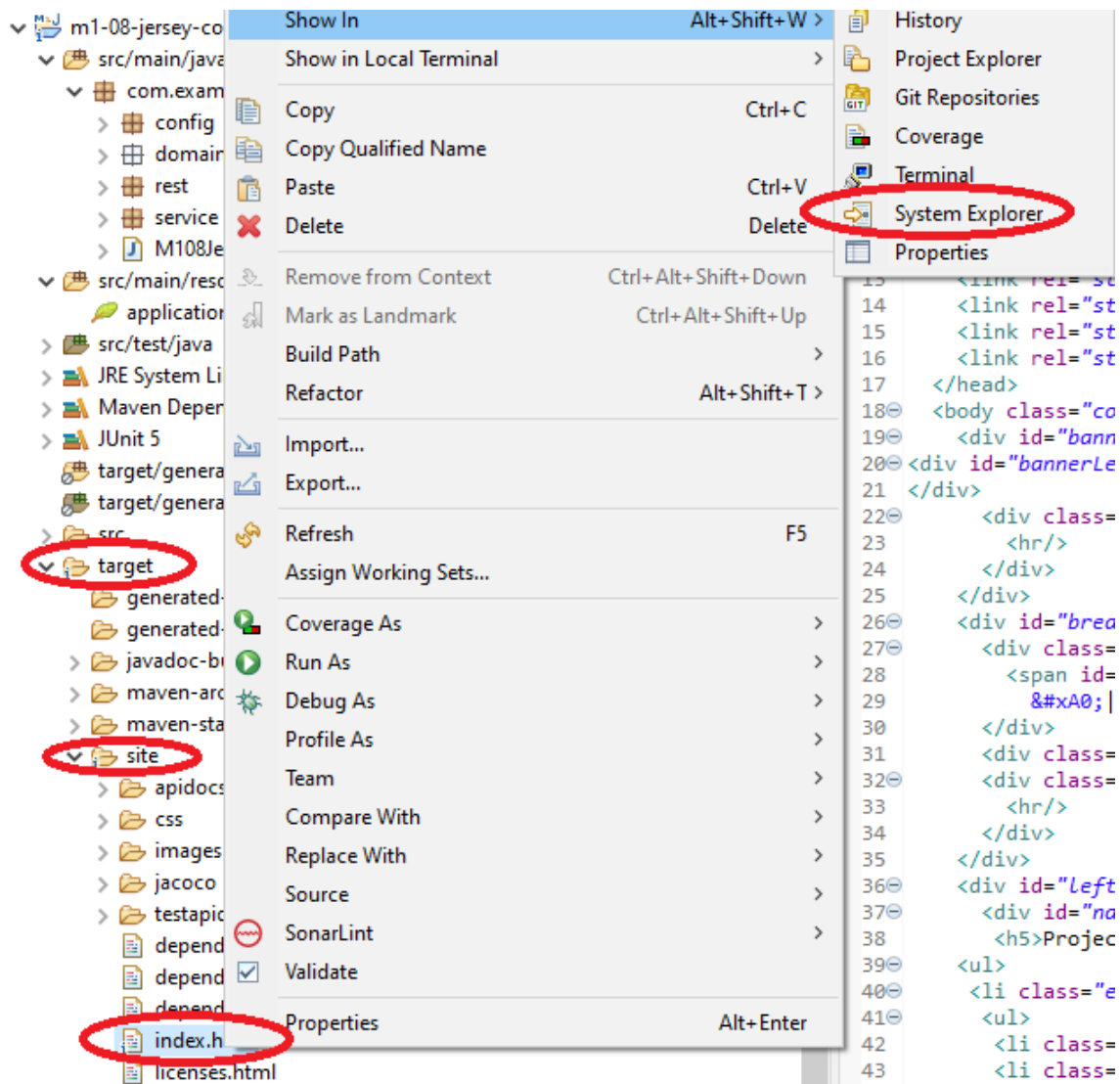
1. He usado el proyecto entregado de Maven porque es la versión que presenta menos errores, y además ya tiene algunas dependencias instaladas. La lista de los plugins necesarios en el pom.xml son:

- maven-clean-plugin (build)
- maven-compiler-plugin (build)
- maven-surefire-plugin (build)
- maven-site-plugin (build)
- maven-surefire-report-plugin (reporting)
- maven-javadoc-plugin (en build con executions y en reporting sin executions)
- jacoco-maven-plugin (en build con executions y en reporting sin executions)
- maven-checkstyle-plugin (reporting)

Y los comandos que se ejecutan para clean y site son:

- mvn clean
- mvn install
- mvn clean install
- mvn site
- mvn compile site

2. Una vez que se haya creado todo, se abre el archivo index.html que está dentro de la carpeta site de target.



Nombre	Fecha de modificación	tipo	tamaño
apidocs	14/09/2021 12:00	Carpeta de archivos	
css	14/09/2021 11:57	Carpeta de archivos	
images	14/09/2021 11:58	Carpeta de archivos	
jacoco	14/09/2021 11:56	Carpeta de archivos	
jacoco-aggregate	14/09/2021 11:57	Carpeta de archivos	
testapidocs	14/09/2021 12:00	Carpeta de archivos	
checkstyle.html	14/09/2021 11:57	Firefox HTML Doc...	0 KB
cpd.html	14/09/2021 12:00	Firefox HTML Doc...	4 KB
dependencies.html	14/09/2021 12:00	Firefox HTML Doc...	143 KB
dependency-info.html	14/09/2021 12:00	Firefox HTML Doc...	5 KB
dependency-management.html	14/09/2021 12:00	Firefox HTML Doc...	411 KB
index.html	14/09/2021 12:00	Firefox HTML Doc...	4 KB
licenses.html	14/09/2021 12:00	Firefox HTML Doc...	42 KB
plugin-management.html	14/09/2021 12:00	Firefox HTML Doc...	9 KB
plugins.html	14/09/2021 12:00	Firefox HTML Doc...	8 KB
pmd.html	14/09/2021 12:00	Firefox HTML Doc...	4 KB
project-info.html	14/09/2021 12:00	Firefox HTML Doc...	6 KB
project-reports.html	14/09/2021 12:00	Firefox HTML Doc...	5 KB
scm.html	14/09/2021 12:00	Firefox HTML Doc...	4 KB
spotbugs.html	14/09/2021 12:00	Firefox HTML Doc...	23 KB
summary.html	14/09/2021 12:00	Firefox HTML Doc...	5 KB
surefire-report.html	14/09/2021 12:00	Firefox HTML Doc...	20 KB
team.html	14/09/2021 12:00	Firefox HTML Doc...	5 KB

3. Dentro de index.html, se abre projects reports, y ahí a SpotBugs.

## m1-08-jersey-coche

Project Documentation

Project Information

Dependencies

Dependency Information

Dependency Management

About

Licenses

Plugin Management

Plugins

Source Code

Management

Summary

Team

Project Reports

Built by

maven

About m1-08-jersey-coche

Demo project for Spring Boot

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## Generated Reports

This document provides an overview of the various reports that are automatically generated by Maven . Each report is briefly described below.

### Overview

Document	Description
Javadoc	Javadoc API documentation.
Test Javadoc	Test Javadoc API documentation.
Surefire Report	Report on the test results of the project.
JaCoCo	JaCoCo Coverage Report.
JaCoCo Aggregate	JaCoCo Aggregate Coverage Report.
CPD	Duplicate code detection.
PMD	Verification of coding rules.
SpotBugs	Generates a source code report with the SpotBugs Library.

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4. Y este es el reporte que ha emitido SpotBugs sobre el proyecto:

SpotBugs Bug Detector Report

The following document contains the results of [SpotBugs](#)

SpotBugs Version is 4.3.0

Threshold is *medium*

Effort is *default*

Summary

Classes	Bugs	Errors	Missing Classes
25	37	0	0

Files

Class	Bugs
<a href="#">com.example.demo.domain.vehicles.CombustionVehicle</a>	3
<a href="#">com.example.demo.domain.vehicles.ElectricVehicle</a>	3
<a href="#">com.example.demo.domain.vehicles.HybridVehicle</a>	3
<a href="#">com.example.demo.domain.vehicles.Vehicle</a>	9
<a href="#">com.example.demo.rest.CombustionVehicleController</a>	1
<a href="#">com.example.demo.rest.ElectricVehicleController</a>	1
<a href="#">com.example.demo.rest.HybridVehicleController</a>	1
<a href="#">com.example.demo.service.CombustionVehicleServiceImpl</a>	5
<a href="#">com.example.demo.service.ElectricVehicleServiceImpl</a>	6
<a href="#">com.example.demo.service.HybridVehicleServiceImpl</a>	5

[com.example.demo.domain.vehicles.CombustionVehicle](#)

Bug	Category	Details	Line	Priority
<a href="#">com.example.demo.domain.vehicles.CombustionVehicle.getInjection()</a> may expose internal representation by returning <a href="#">CombustionVehicle.injection</a>	MALICIOUS_CODE	<a href="#">EI_EXPOSE_REP</a>	20	Medium
<a href="#">new com.example.demo.domain.vehicles.CombustionVehicle(Long, String, String, Integer, AirConditioning, Battery, Engine, Injection, Boolean)</a> may expose internal representation by storing an externally mutable object into <a href="#">CombustionVehicle.injection</a>	MALICIOUS_CODE	<a href="#">EI_EXPOSE_REP2</a>	16	Medium
<a href="#">com.example.demo.domain.vehicles.CombustionVehicle.setInjection(Injection)</a> may expose internal representation by storing an externally mutable object into <a href="#">CombustionVehicle.injection</a>	MALICIOUS_CODE	<a href="#">EI_EXPOSE_REP2</a>	24	Medium

[com.example.demo.domain.vehicles.ElectricVehicle](#)

Bug	Category	Details	Line	Priority
<a href="#">com.example.demo.domain.vehicles.ElectricVehicle.getCharges()</a> may expose internal representation by returning <a href="#">ElectricVehicle.charges</a>	MALICIOUS_CODE	<a href="#">EI_EXPOSE_REP</a>	30	Medium
<a href="#">new com.example.demo.domain.vehicles.ElectricVehicle(Long, String, String, Integer, AirConditioning, Battery, Engine, Integer, Charges, Boolean)</a> may expose internal representation by storing an externally mutable object into <a href="#">ElectricVehicle.charges</a>	MALICIOUS_CODE	<a href="#">EI_EXPOSE_REP2</a>	18	Medium
<a href="#">com.example.demo.domain.vehicles.ElectricVehicle.setCharges(Charges)</a> may expose internal representation by storing an externally mutable object into <a href="#">ElectricVehicle.charges</a>	MALICIOUS_CODE	<a href="#">EI_EXPOSE_REP2</a>	34	Medium

[com.example.demo.domain.vehicles.HybridVehicle](#)

Bug	Category	Details	Line	Priority
<a href="#">com.example.demo.domain.vehicles.HybridVehicle.getHydrogenTank()</a> may expose internal representation by returning <a href="#">HybridVehicle.hydrogenTank</a>	MALICIOUS_CODE	<a href="#">EI_EXPOSE_REP</a>	22	Medium
<a href="#">new com.example.demo.domain.vehicles.HybridVehicle(Long, String, String, Integer, AirConditioning, Battery, Engine, HydrogenTank, Boolean)</a> may expose internal representation by storing an externally mutable object into <a href="#">HybridVehicle.hydrogenTank</a>	MALICIOUS_CODE	<a href="#">EI_EXPOSE_REP2</a>	18	Medium
<a href="#">com.example.demo.domain.vehicles.HybridVehicle.setHydrogenTank(HydrogenTank)</a> may expose internal representation by storing an externally mutable object into <a href="#">HybridVehicle.hydrogenTank</a>	MALICIOUS_CODE	<a href="#">EI_EXPOSE_REP2</a>	26	Medium

## com.example.demo.domain.vehicles.Vehicle

Bug	Category	Details	Line	Priority
com.example.demo.domain.vehicles.Vehicle.getAirAc() may expose internal representation by returning Vehicle.airAc	MALICIOUS_CODE	<a href="#">EI_EXPOSE_REP</a>	51	Medium
com.example.demo.domain.vehicles.Vehicle.getBattery() may expose internal representation by returning Vehicle.battery	MALICIOUS_CODE	<a href="#">EI_EXPOSE_REP</a>	55	Medium
com.example.demo.domain.vehicles.Vehicle.getEngine() may expose internal representation by returning Vehicle.engine	MALICIOUS_CODE	<a href="#">EI_EXPOSE_REP</a>	59	Medium
new com.example.demo.domain.vehicles.Vehicle(Long, String, String, Integer, AirConditioning, Battery, Engine, Boolean) may expose internal representation by storing an externally mutable object into Vehicle.airAc	MALICIOUS_CODE	<a href="#">EI_EXPOSE_REP2</a>	27	Medium
new com.example.demo.domain.vehicles.Vehicle(Long, String, String, Integer, AirConditioning, Battery, Engine, Boolean) may expose internal representation by storing an externally mutable object into Vehicle.battery	MALICIOUS_CODE	<a href="#">EI_EXPOSE_REP2</a>	28	Medium
new com.example.demo.domain.vehicles.Vehicle(Long, String, String, Integer, AirConditioning, Battery, Engine, Boolean) may expose internal representation by storing an externally mutable object into Vehicle.engine	MALICIOUS_CODE	<a href="#">EI_EXPOSE_REP2</a>	29	Medium
com.example.demo.domain.vehicles.Vehicle.setAirAc(AirConditioning) may expose internal representation by storing an externally mutable object into Vehicle.airAc	MALICIOUS_CODE	<a href="#">EI_EXPOSE_REP2</a>	79	Medium
com.example.demo.domain.vehicles.Vehicle.setBattery(Battery) may expose internal representation by storing an externally mutable object into Vehicle.battery	MALICIOUS_CODE	<a href="#">EI_EXPOSE_REP2</a>	83	Medium
com.example.demo.domain.vehicles.Vehicle.setEngine(Engine) may expose internal representation by storing an externally mutable object into Vehicle.engine	MALICIOUS_CODE	<a href="#">EI_EXPOSE_REP2</a>	87	Medium

## com.example.demo.rest.CombustionVehicleController

Bug	Category	Details	Line	Priority
new com.example.demo.rest.CombustionVehicleController(CombustionVehicleService) may expose internal representation by storing an externally mutable object into CombustionVehicleController.combustionVehicleService	MALICIOUS_CODE	<a href="#">EI_EXPOSE_REP2</a>	30	Medium

## com.example.demo.rest.ElectricVehicleController

Bug	Category	Details	Line	Priority
new com.example.demo.rest.ElectricVehicleController(ElectricVehicleService) may expose internal representation by storing an externally mutable object into ElectricVehicleController.electricVehicleService	MALICIOUS_CODE	<a href="#">EI_EXPOSE_REP2</a>	30	Medium







## com.example.demo.rest.HybridVehicleController

Bug	Category	Details	Line	Priority
new com.example.demo.rest.HybridVehicleController(HybridVehicleService) may expose internal representation by storing an externally mutable object into HybridVehicleController.hybridVehicleService	MALICIOUS_CODE	<a href="#">EI_EXPOSE_REP2</a>	30	Medium






## com.example.demo.service.CombustionVehicleServiceImpl

Bug	Category	Details	Line	Priority
Comparison of String parameter using == or != in com.example.demo.service.CombustionVehicleServiceImpl.findByColour(String)	BAD_PRACTICE	<a href="#">ES_COMPARING_PARAMETER_STRING_WITH_EQ</a>	114	High
Comparison of String parameter using == or != in com.example.demo.service.CombustionVehicleServiceImpl.findByName(String)	BAD_PRACTICE	<a href="#">ES_COMPARING_PARAMETER_STRING_WITH_EQ</a>	106	High
Suspicious comparison of Long references in com.example.demo.service.CombustionVehicleServiceImpl.findById(Long)	CORRECTNESS	<a href="#">RC_REF_COMPARISON</a>	98	High
Suspicious comparison of Integer references in com.example.demo.service.CombustionVehicleServiceImpl.findNumDoors(Integer)	CORRECTNESS	<a href="#">RC_REF_COMPARISON</a>	122	High
Suspicious comparison of Boolean references in com.example.demo.service.CombustionVehicleServiceImpl.findByOnOff(Boolean)	BAD_PRACTICE	<a href="#">RC_REF_COMPARISON_BAD_PRACTICE_BOOLEAN</a>	146	Medium

#### com.example.demo.service.ElectricVehicleServiceImpl

Bug	Category	Details	Line	Priority
Comparison of String parameter using == or != in com.example.demo.service.ElectricVehicleServiceImpl.findByColour(String)	BAD_PRACTICE	ES_COMPARING_PARAMETER_STRING_WITH_EQ 	115	High
Comparison of String parameter using == or != in com.example.demo.service.ElectricVehicleServiceImpl.findByName(String)	BAD_PRACTICE	ES_COMPARING_PARAMETER_STRING_WITH_EQ 	107	High
Suspicious comparison of Long references in com.example.demo.service.ElectricVehicleServiceImpl.findById(Long)	CORRECTNESS	RC_REF_COMPARISON 	99	High
Suspicious comparison of Integer references in com.example.demo.service.ElectricVehicleServiceImpl.findByLoadingTime(Integer)	CORRECTNESS	RC_REF_COMPARISON 	155	High
Suspicious comparison of Integer references in com.example.demo.service.ElectricVehicleServiceImpl.findbyNumDoors(Integer)	CORRECTNESS	RC_REF_COMPARISON 	123	High
Suspicious comparison of Boolean references in com.example.demo.service.ElectricVehicleServiceImpl.findByOnOff(Boolean)	BAD_PRACTICE	RC_REF_COMPARISON_BAD_PRACTICE_BOOLEAN 	147	Medium

#### com.example.demo.service.HybridVehicleServiceImpl

Bug	Category	Details	Line	Priority
Comparison of String parameter using == or != in com.example.demo.service.HybridVehicleServiceImpl.findByColour(String)	BAD_PRACTICE	ES_COMPARING_PARAMETER_STRING_WITH_EQ 	113	High
Comparison of String parameter using == or != in com.example.demo.service.HybridVehicleServiceImpl.findByName(String)	BAD_PRACTICE	ES_COMPARING_PARAMETER_STRING_WITH_EQ 	105	High
Suspicious comparison of Long references in com.example.demo.service.HybridVehicleServiceImpl.findById(Long)	CORRECTNESS	RC_REF_COMPARISON 	97	High
Suspicious comparison of Integer references in com.example.demo.service.HybridVehicleServiceImpl.findbyNumDoors(Integer)	CORRECTNESS	RC_REF_COMPARISON 	121	High
Suspicious comparison of Boolean references in com.example.demo.service.HybrndVehicleServiceImpl.findByOnOff(Boolean)	BAD_PRACTICE	RC_REF_COMPARISON_BAD_PRACTICE_BOOLEAN 	145	Medium

## Jenkins

1. Se crea un contenedor de Docker de Jenkins, con los siguientes comandos:

```
docker run --name jenkins -p 8080:8080 -d jenkins/jenkins:lts
```

```
docker logs -f jenkins
```

2. Se obtiene la contraseña con el siguiente comando:

```
docker exec -it jenkins cat  
/var/jenkins_home/secrets/initialAdminPassword
```

3. En localhost:8080, se introduce la contraseña anterior y se instala lo que viene por defecto. Después se crea una cuenta de admin y se configura la instancia con el localhost escogido.

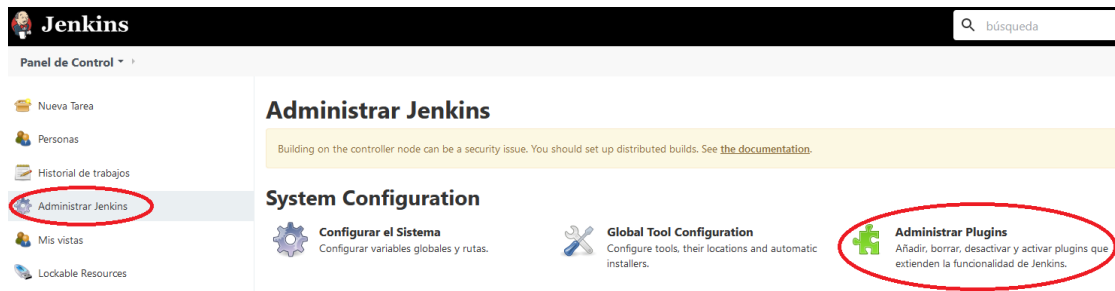
Getting Started

# Getting Started

✓ Folders	✓ OWASP Markup Formatter	✓ Build Timeout	✓ Credentials Binding	** SSH server
✓ Timestampers	Workspace Cleanup	Ant	Gradle	** Trilead API
Pipeline	GitHub Branch Source	Pipeline: GitHub Groovy Libraries	Pipeline: Stage View	OWASP Markup Formatter
Git	SSH Build Agents	Matrix Authorization Strategy	PAM Authentication	** Struts
LDAP	Email Extension	Mailer		** Pipeline: Step API
				** Token Macro
				Build Timeout
				** JAXB
				** Credentials
				** Plain Credentials
				** SSH Credentials
				Credentials Binding
				** SCM API
				** Pipeline: API
				Timestampers
				** Caffeine API
				** Script Security
				** Plugin Utilities API
				** Font Awesome API
				** Popper.js API
				** JQuery3 API
				** Bootstrap 4 API
				** Snakeyaml API
				** Jackson 2 API
				** Popper.js 2 API
				** Bootstrap 5 API
				** ECharts API
				** Display URL API
				** Pipeline: Supporting APIs
				** - required dependency

Jenkins 2.303.1

#### 4. En administrar Jenkins, se pincha en administrar plugins:



Se busca en todos los plugins, los siguientes plugins:

- AdoptOpenJDK installer: escribimos jdk en la búsqueda.
- JaCoCo

Search:

Actualizaciones disponibles | **Todos los plugins** | Plugins instalados | Configuración avanzada

Install	Name	Version	Released
<input type="checkbox"/>	<b>JDK Parameter</b> Build Parameters Lets you specify a set of JDKs that can be picked from as a build parameter.	1.0	8 Año 0 Mes ago
<input type="checkbox"/>	<b>openJDK-native-plugin</b>	1.4	1 Año 5 Mes ago
<input checked="" type="checkbox"/>	<b>AdoptOpenJDK installer</b> Provides an installer for the JDK tool that downloads the JDK from https://adoptopenjdk.net	1.4	5 Mes 10 días ago
<input type="checkbox"/>	<b>graphiteIntegrator</b> Varios This plugin allows you to send these metrics : number of tests, tests skipped, tests failed, build duration, cobertura total line coverage and cobertura total branch coverage to one or more graphite servers. If you don't have a graphite server you can use : https://www.hostedgraphite.com to test. For cobertura metrics you need to install cobertura plugin and run cobertura:cobertura in goals section. Be sure to run jenkins in a Jdk 7, because the plugin only works with this version of jdk.	1.2	6 Año 7 Mes ago
<input type="checkbox"/>	<b>Kotlin 1.x Standard Library Plugin for JDK 8</b> Bundles Kotlin 1.x Standard Library for JDK 8	1.3.20-1.4	2 Año 7 Mes ago

**Install without restart** | Download now and install after restart | Update information obtained: 1 Hor 32 Min ago | **Comprobar ahora**

Search:

Actualizaciones disponibles | **Todos los plugins** | Plugins instalados | Configuración avanzada

Install	Name	Version	Released
<input checked="" type="checkbox"/>	<b>JaCoCo</b> Plugins para generar informes This plugin integrates JaCoCo code coverage reports to Jenkins.	3.3.0	2 Mes 28 días ago

**Install without restart** | Download now and install after restart | Update information obtained: 1 Hor 36 Min ago | **Comprobar ahora**

#### 5. Se reinicia Jenkins, con el siguiente comando en Ubuntu:

Para comprobar la lista de imágenes: `docker ps` y se pulsa enter.

`docker restart Jenkins`



```

marinamadrid@DESKTOP-HP061D8:~$ docker ps
CONTAINER ID   IMAGE          COMMAND                  CREATED        STATUS        PORTS
8ea66229c2e4   jenkins/jenkins:lts   "/sbin/tini -- /usr/..."   4 days ago    Up 2 hours    0.0.0.0:8080->8080/tcp, :::8080-
>8080/tcp, 50000/tcp   jenkins
marinamadrid@DESKTOP-HP061D8:~$ docker restart jenkins

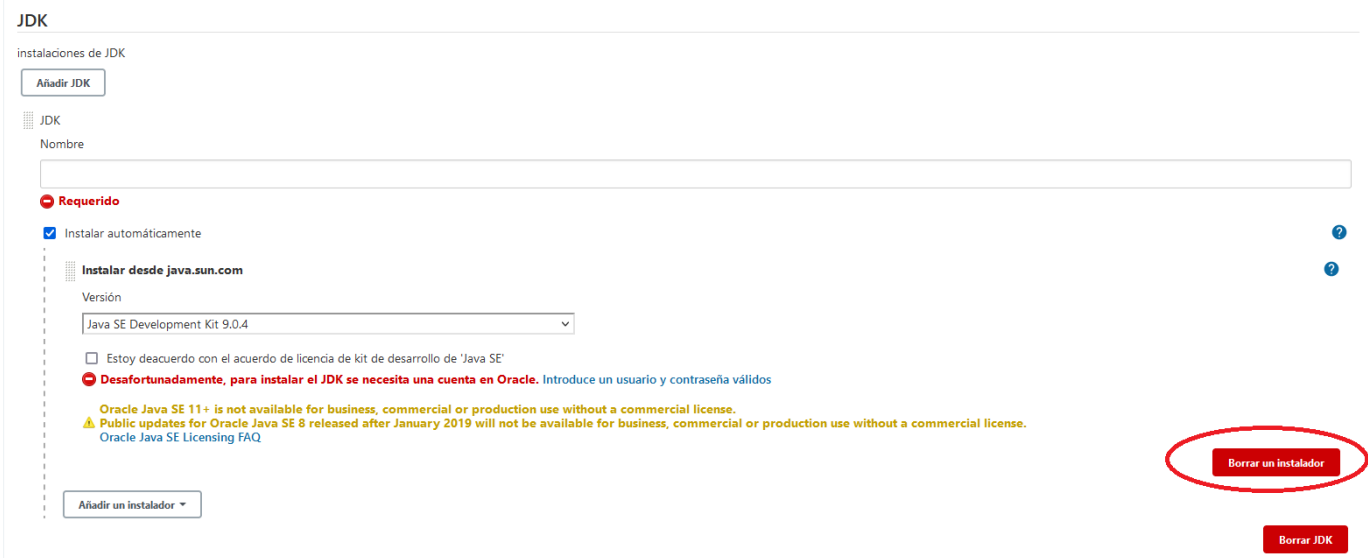
```

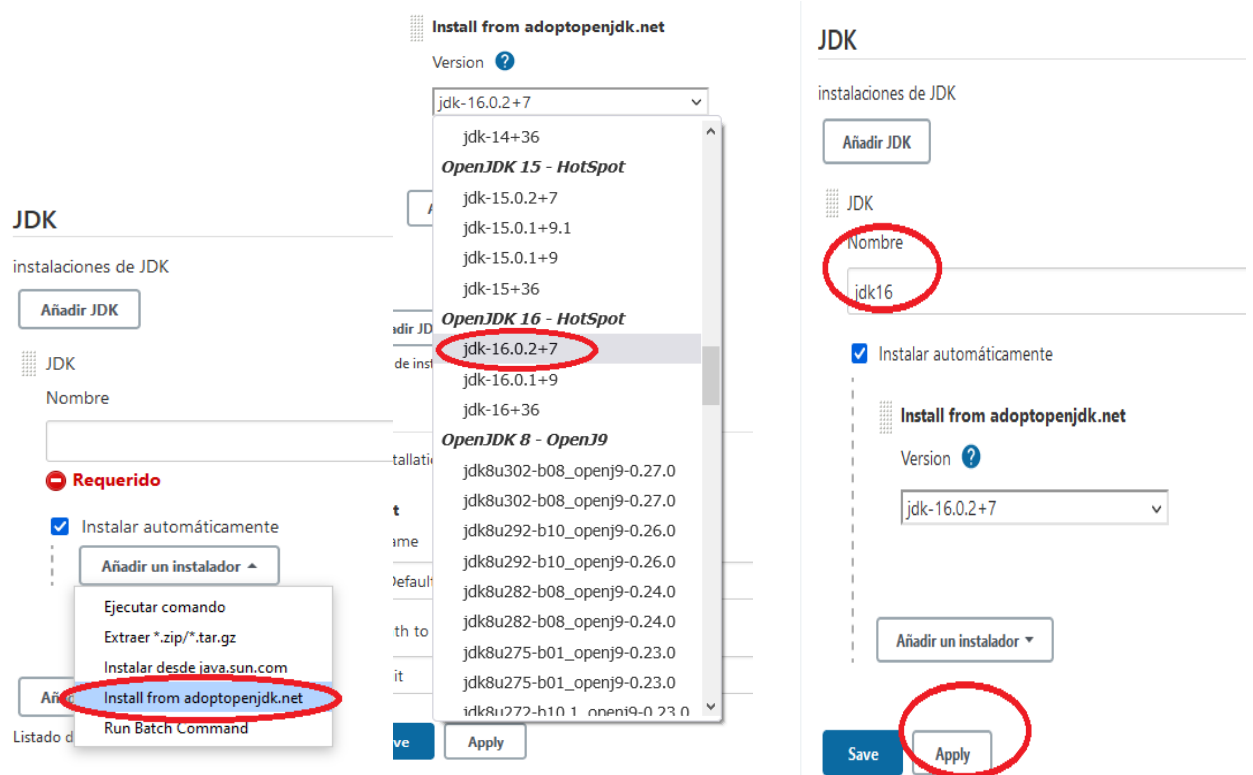
Y volvemos a iniciar sesión en Jenkins.

- En administrar Jenkins, se pincha en Global Tool Configuration, y se configura Maven y JDK, siguiendo los siguientes pasos:

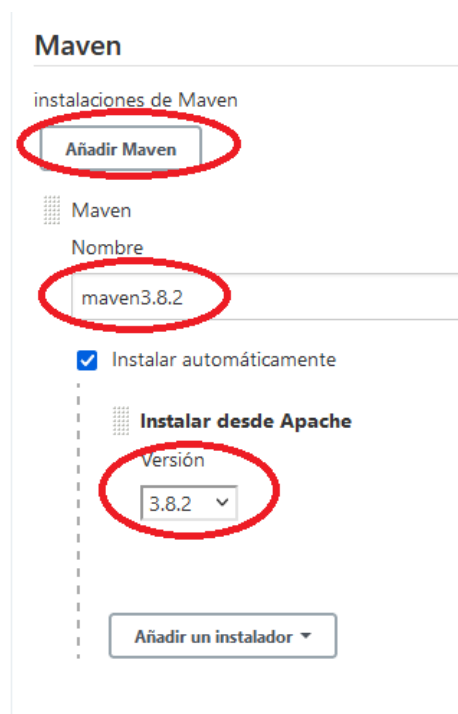


- Configuración de JDK





- Configuración de Maven

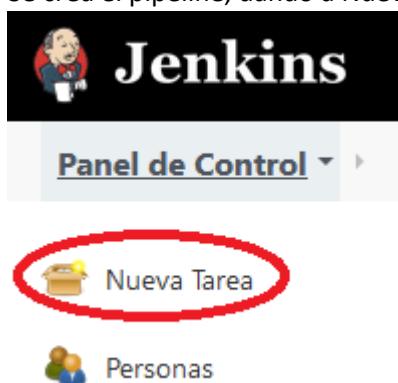


Y para finalizar se da a Save.

7. Se crea el archivo de Jenkinsfile, para ello se clicla con el botón derecho del ratón sobre la carpeta del proyecto en Eclipse, y se da New/File, y se le llama Jenkinsfile. Y se añade el siguiente texto:

```
pipeline {
  agent any
  tools {
    maven "maven3.8.1"
    jdk "jdk16"
  }
  stages {
    stage("Env Variables") {
      steps {
        sh "printenv"
      }
    }
    stage('Build') {
      steps {
        sh 'mvn -B -DskipTests clean package'
      }
    }
    stage('Test') {
      steps {
        sh 'mvn test'
      }
      post {
        always {
          junit 'target/surefire-reports/*.xml'
          archiveArtifacts 'target/*.jar'
        }
      }
    }
  }
}
```







8. Se crea el pipeline, dando a Nueva tarea, y luego Multibranch pipeline.



**Enter an item name**

m1-08-jersey-coche-test-pipeline

» Required field

-  **Crear un proyecto de estilo libre**  
Esta es la característica principal de Jenkins tanto se podrá tanto compilar y empaquetar
-  **Pipeline**  
Orchestrates long-running activities that
-  **Crear un proyecto multi-configuración**  
Adecuado para proyectos que requieran
-  **Folder**  
Creates a container that stores nested items as they are in different folders.
-  **GitHub Organization**  
Scans a GitHub organization (or user account)
-  **Multibranch Pipeline**  
Creates a set of Pipeline projects according

**OK**

Y luego se configura la parte de git de la siguiente forma:

**Branch Sources**

Add source ^

- Git
- GitHub**
- Single repository & branch

☒ Repository HTTPS URL

Repository HTTPS URL ?

https://github.com/MarinaMadrid/m1-08-jersey-coche-test-maven

9. Se escanea y construye automáticamente.

## Scan Repository Log

```

Started
[Tue Sep 14 20:21:46 UTC 2021] Starting branch indexing...
20:21:48 Connecting to https://api.github.com with no credentials, anonymous access
Examining MarinaMadrid/m1-08-jersey-coche-test-maven

  Checking branches...

  Getting remote branches...

    Checking branch master

  Getting remote pull requests...
    'Jenkinsfile' found
    Met criteria
  Scheduled build for branch: master

  1 branches were processed

  Checking pull-requests...

  0 pull requests were processed

Finished examining MarinaMadrid/m1-08-jersey-coche-test-maven

[Tue Sep 14 20:21:49 UTC 2021] Finished branch indexing. Indexing took 2.6 sec
Finished: SUCCESS
  
```

### m1-08-jersey-coche-test-pipeline

Branches (1)

Pull Requests (0)

Disable Multibranch Pipeline

S	W	Name ↓	Último Éxito	Último Fallo	Última Duración	
		master	1 Min 58 Seg - #1	N/D	22 Seg	

Iconos: [S](#) [M](#) [L](#)

[Guía de Iconos](#)
[Atom feed para todos](#)
[Atom feed para fallos](#)
[Atom feed para los más recientes](#)

Up

Status

Changes

Construir ahora

Ver Configuración

Full Stage View

GitHub

Pipeline Syntax

Historia de tareas

Tendencia

Atom feed Para Todos

Atom feed para los errores

## Branch master

Full project name: m1-08-jersey-coche-test-pipeline/master

Last Successful Artifacts

m1-08-jersey-coche-0.0.1-SNAPSHOT-javadoc.jar

246.32 KB

view

m1-08-jersey-coche-0.0.1-SNAPSHOT.jar

22.03 MB

view

Recent Changes

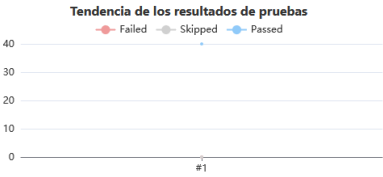
## Stage View

	Declarative: Checkout SCM	Declarative: Tool Install	Env Variables	Build	Test
Average stage times: (Average full run time: ~22s)	1s	221ms	547ms	10s	9s
<div>#1</div> <div>Sep 14 22:52</div> <div>No Changes</div> <div></div>	1s	221ms	547ms	10s	9s

Últimos resultados de tests (Sin fallas)

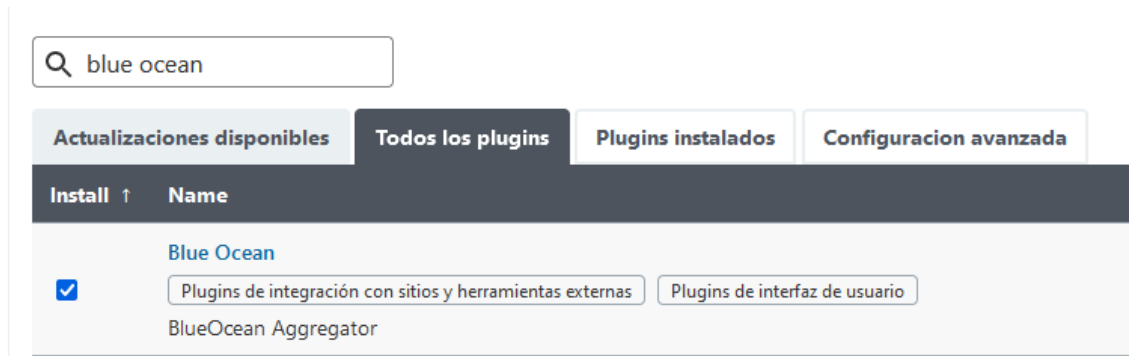
## Enlaces permanentes

- "Última ejecución (#1) hace 2 Min 18 Seg"
- "Última ejecución estable (#1) hace 2 Min 18 Seg"
- "Última ejecución correcta (#1) hace 2 Min 18 Seg"
- "Last completed build (#1) hace 2 Min 18 Seg"

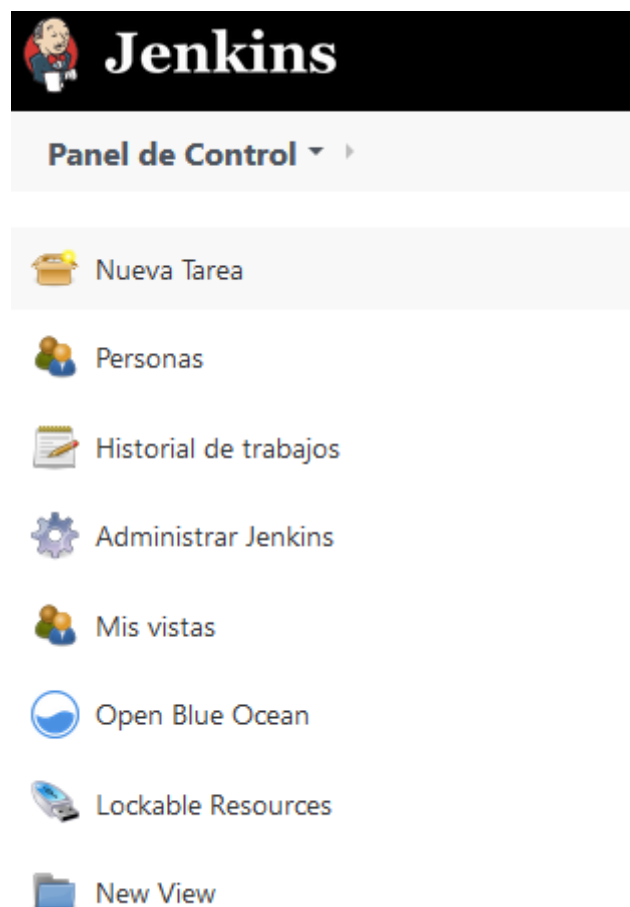


## Blue Ocean

1. Se instala el plugin de Blue Ocean y luego se reinicia Jenkins.



2. Se pincha en Open Blue Ocean, que aparece en la barra lateral izquierda.



NOMBRE	SALUD	RAMAS	PETICIÓN DE
m1-08-jersey-coche-test-pipeline		1 exitoso	-

ESTADO	BUILD	COMMIT	RAMA	MENSAJE	DURACIÓN	FINALIZADO
	1	b61d769	master	Branch indexing	23s	28 minutos ago



Env Variables - <1s

Restart Env Variables

✓	>	Check out from version control	<1s
✓	>	maven3.8.2 — Use a tool from a predefined Tool Installation	<1s
✓	>	Fetches the environment variables for a given tool in a list of 'FOO=bar' strings suitable for the withEnv step.	<1s
✓	>	jdk16 — Use a tool from a predefined Tool Installation	<1s
✓	>	Fetches the environment variables for a given tool in a list of 'FOO=bar' strings suitable for the withEnv step.	<1s
✓	>	maven3.8.2 — Use a tool from a predefined Tool Installation	<1s
✓	>	Fetches the environment variables for a given tool in a list of 'FOO=bar' strings suitable for the withEnv step.	<1s
✓	>	jdk16 — Use a tool from a predefined Tool Installation	<1s
✓	>	Fetches the environment variables for a given tool in a list of 'FOO=bar' strings suitable for the withEnv step.	<1s
✓	>	printenv — Shell Script	<1s



Build - 10s

Restart Build

✓	>	maven3.8.2 — Use a tool from a predefined Tool Installation	
✓	>	Fetches the environment variables for a given tool in a list of 'FOO=bar' strings suitable for the withEnv step.	
✓	>	jdk16 — Use a tool from a predefined Tool Installation	
✓	>	Fetches the environment variables for a given tool in a list of 'FOO=bar' strings suitable for the withEnv step.	
✓	>	mvn -B -DskipTests clean package — Shell Script	





Test - 9s

 [Restart Test](#)  

✓	> maven3.8.2 — Use a tool from a predefined Tool Installation	<1s
✓	> Fetches the environment variables for a given tool in a list of 'FOO=bar' strings suitable for the withEnv step.	<1s
✓	> jdk16 — Use a tool from a predefined Tool Installation	<1s
✓	> Fetches the environment variables for a given tool in a list of 'FOO=bar' strings suitable for the withEnv step.	<1s
✓	> mvn test — Shell Script	9s
✓	> target/surefire-reports/*.xml — Archive JUnit-formatted test results	<1s
✓	> target/*.jar — Guardar los archivos generados	<1s

## SonarCloud

1. Se entra en <https://sonarcloud.io/welcome> y inicia sesión con nuestra cuenta de Github (hay que darle permisos)
2. Se pincha en “Import an organization from GitHub”, se selecciona solamente el repositorio donde se está trabajando (o si se desea se puede importar todos los repositorios de Github) y se crea una organización eligiendo la key y el plan gratuito.




### Welcome to SonarCloud

Let us help you get started in your journey to code quality



#### Analyze your first projects

Grant access to the SonarCloud application in your GitHub organization or user account. You will then be able to select which repositories you want to analyze.

 [Import an organization from GitHub](#)

Just testing? You can [create projects manually](#).



#### Join an organization

Now that you have an account on SonarCloud, just ask the Organization Administrator to add you manually. [Learn More](#)


3. Se selecciona Set up.

### Analyze projects - Select repositories

Organization\*

 Marina Madrid García marinamadrid

[Import another organization](#)

☒  m1-08-jersey-coche-test-maven

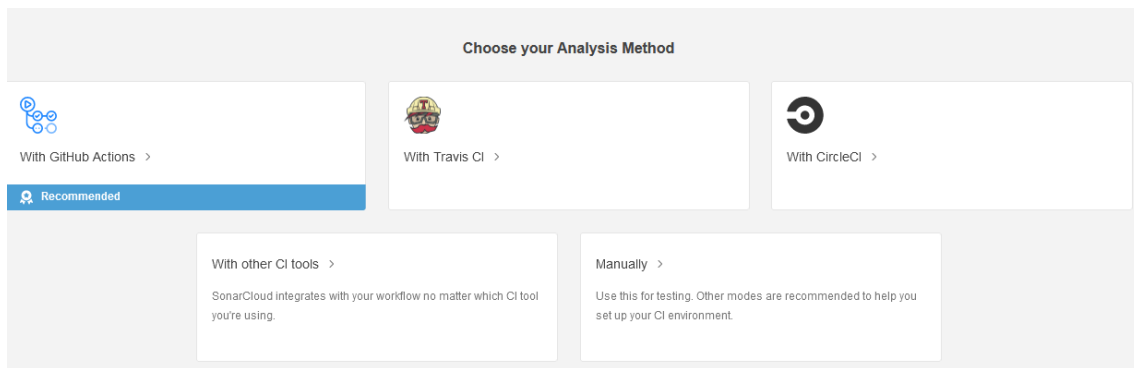
Don't see your repo? Check your [GitHub app configuration](#).

#### 1 repository selected

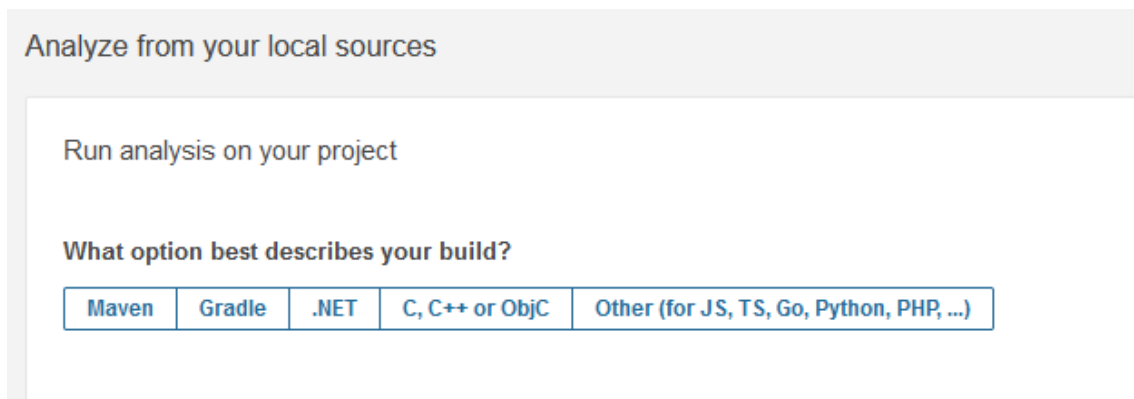
1 repository will be created as a public project on SonarCloud

[Set Up](#)

4. Se pincha en “Manually”.



5. Y se elige la opción de Maven.



Execute the SonarScanner for Maven from your computer

Update your `pom.xml` file with the following properties:

```
<properties>
  <sonar.organization>marinamadrid</sonar.organization>
  <sonar.host.url>https://sonarcloud.io</sonar.host.url>
</properties>
```

Run the following command in the project folder:

```
mvn verify org.sonarsource.scanner.maven:sonar-maven-plugin:sonar -Dsonar.projectKey=MarinaMadrid_m1-08-jersey-coche-test-maven
```

If you wish, you can shorten this command (to `mvn verify sonar:sonar`, for example) by [specifying a prefix for the plugin](#).

See the [SonarScanner for Maven documentation](#) for more details.

6. Se coloca la propiedad anterior en el pom.xml, y se ejecuta el comando de arriba desde la terminal de dicho proyecto en Eclipse.

- Me ha aparecido el siguiente error:

```

[WARNING] ^
[WARNING] D:\Bibliotecas\Marina\Documentos\GitHub\m1-08-jersey-coche-test-maven\src\main\java\com\example\demo\rest\ElectricVehicleController.java:84: warning: no @param for id
[WARNING] public Response deleteOne(@PathParam("id") Long id) {
[WARNING] ^
[INFO] Building jar: D:\Bibliotecas\Marina\Documentos\GitHub\m1-08-jersey-coche-test-maven\target\m1-08-jersey-coche-0.0.1-SNAPSHOT-javadoc.jar
[INFO]
[INFO] -----< com.example:m1-08-jersey-coche >-----
[INFO] Building m1-08-jersey-coche 0.0.1-SNAPSHOT
[INFO] -----[ jar ]-----
[INFO]
[INFO] --- sonar-maven-plugin:3.2:sonar (default-cli) @ m1-08-jersey-coche ---
[INFO] User cache: C:\Users\Marina\.sonar\cache
[INFO]
[INFO] BUILD FAILURE
[INFO]
[INFO] -----
[INFO] Total time: 49.979 s
[INFO] Finished at: 2021-09-15T00:15:45+02:00
[INFO]
[ERROR] Failed to execute goal org.sonarsource.scanner.maven:sonar-maven-plugin:3.2:sonar (default-cli) on project m1-08-jersey-coche: Unable to execute SonarQube: Fail to download libraries from server
[ERROR] 1 out of bounds for length 1 -> [Help 1]
[ERROR]
[ERROR] To see the full stack trace of the errors, re-run Maven with the -e switch.
[ERROR] Re-run Maven using the -X switch to enable full debug logging.
[ERROR]
[ERROR] For more information about the errors and possible solutions, please read the following articles:
[ERROR] [Help 1] http://cwiki.apache.org/confluence/display/MAVEN/MojoExecutionException
D:\Bibliotecas\Marina\Documentos\GitHub\m1-08-jersey-coche-test-maven>

```

Parece que se ha arreglado añadiendo en el pom.xml, lo siguiente:

```

<!-- https://mvnrepository.com/artifact/org.sonarsource.scanner.maven/sonar-maven-plugin -->
<dependency>
  <groupId>org.sonarsource.scanner.maven</groupId>
  <artifactId>sonar-maven-plugin</artifactId>
  <version>3.8.0.2131</version>
</dependency>
</dependencies>

<plugin>
  <groupId>org.sonarsource.scanner.maven</groupId>
  <artifactId>sonar-maven-plugin</artifactId>
  <version>3.8.0.2131</version>
</plugin>

<plugin>
  <groupId>org.codehaus.mojo</groupId>
  <artifactId>sonar-maven-plugin</artifactId>
  <version>3.0.2</version>
</plugin>

```

- Ahora se está construyendo --- sonar-maven-plugin:3.8.0.2131:sonar, pero vuelve a salir otro error.

```
[INFO] 21:50:22.1167172 Tarjan found 0 components
[INFO] 21:50:22.1187165 Variable type analysis: done
[INFO] Analyzing 2 ucfgs to detect vulnerabilities.
[INFO] Taint analysis starting. Entrypoints: 3
[INFO] Running symbolic analysis for 'JS'
[INFO] Taint analysis: done.
[INFO] Sensor JsSecuritySensor [security] (done) | time=360ms
[INFO] ----- Run sensors on project
[INFO] Sensor Zero Coverage Sensor
[INFO] Sensor Zero Coverage Sensor (done) | time=2ms
[INFO] Sensor Java CPD Block Indexer
[INFO] Sensor Java CPD Block Indexer (done) | time=47ms
[INFO] SCM Publisher SCM provider for this project is: git
[INFO] SCM Publisher 34 source files to be analyzed
[INFO] SCM Publisher 33/34 source files have been analyzed (done) | time=306ms
[WARNING] Missing blame information for the following files:
[WARNING] * pom.xml
[WARNING] This may lead to missing/broken features in SonarCloud
[INFO] CPD Executor 6 files had no CPD blocks
[INFO] CPD Executor calculating CPD for 19 files
[INFO] CPD Executor CPD calculation finished (done) | time=14ms
[INFO] -----
[INFO] BUILD FAILURE
[INFO] -----
[INFO] Total time: 32.764 s
[INFO] Finished at: 2021-09-16T21:50:22+02:00
[INFO] -----
[ERROR] Failed to execute goal org.sonarsource.scanner.maven:sonar-maven-plugin:3.8.0.2131:sonar (default-cli) on project m1-08-jersey-coche: Cannot invoke
"org.sonar.api.batch.fs.InputFile$status.ordinal()" because "status" is null -> [Help 1]
[ERROR]
[ERROR] To see the full stack trace of the errors, re-run Maven with the -e switch.
[ERROR] Re-run Maven using the -X switch to enable full debug logging.
[ERROR]
[ERROR] For more information about the errors and possible solutions, please read the following articles:
[ERROR] [Help 1] http://cwiki.apache.org/confluence/display/MAVEN/MojoExecutionException
D:\Bibliotecas\Marina\Documentos\GitHub\m1-08-jersey-coche-test-maven>
```

7.