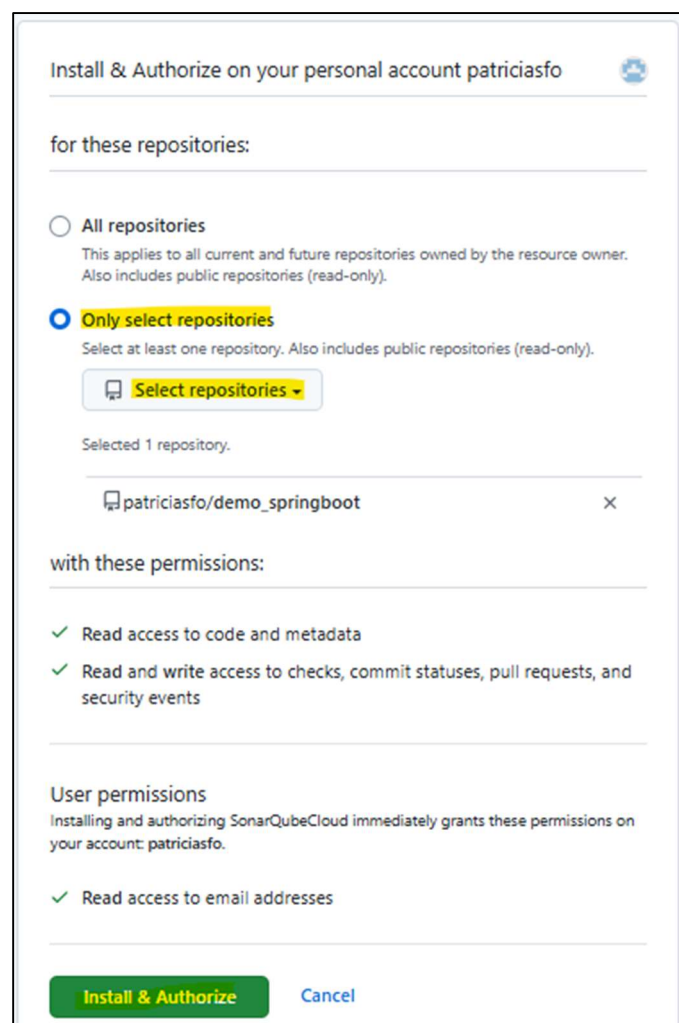
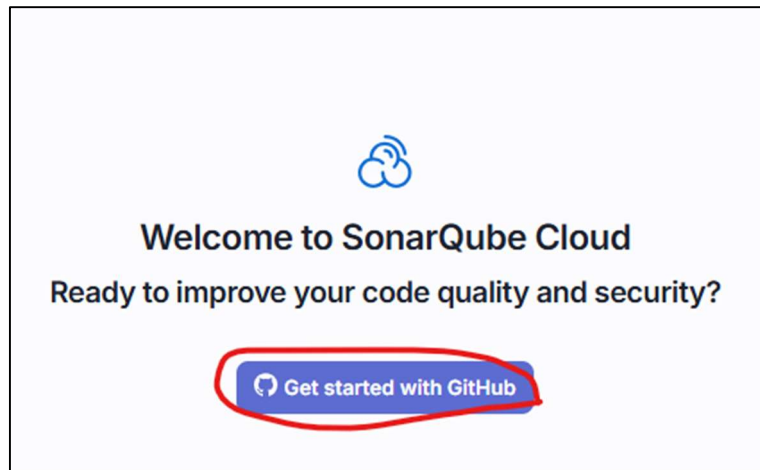


# INSTALACIÓN Y CONFIGURACIÓN DE SONARQUBE

## INSTALACIÓN Y CONFIGURACIÓN CON SONARCLOUD

Acceder a la url <https://sonarcloud.io/> y realizar los siguientes pasos:



## Confirm access



Signed in as @patriciasfo


Password

[Forgot password?](#)

**Confirm**

Tip: You are entering [sudo mode](#). After you've performed a sudo-protected action, you'll only be asked to re-authenticate again after a few hours of inactivity.

### 1 Import organization details

Import  patriciasfo into a SonarQube Cloud organization ×

Name \*

patriciasfo

Up to 255 characters

Key \* 

patriciasfo

Use only lowercase letters, numbers, or hyphens. Must start and end with a letter or number. Up to 255 characters.

## 2 Choose a plan

### Free


For individual developers, students and open-source projects



\$0

✓ Selected


What's included

Create organization

My ProjectsMy IssuesExplore

patriciasfo PUBLIC

ProjectsQuality profilesRulesQuality GatesMembersBilling and upgradeAdministration ▾



No projects here yet

But your organization is all set, you can start analyzing code here!

Analyze a new project

## Set up project for Clean as You Code

The new code definition sets which part of your code will be considered new code.

This helps you focus attention on the most recent changes to your project, enabling you to follow the Clean as You Code methodology.

Learn more: [New Code Definition](#)

**Set a new code definition for your organisation to use it by default for all new projects**

- i** This can help you use the Clean as You Code methodology consistently across projects.

[patriciasfo - Administration - New Code](#)

The new code for this project will be based on:

☒ **Previous version**

Any code that has changed since the previous version is considered new code.  
Recommended for projects following regular versions or releases.

☐ **Number of days**

Any code that has changed in the last x days is considered new code. If no action is taken on a new issue after x days, this issue is considered new code.  
Recommended for projects following continuous delivery.

**i** You can change this at any time in the project administration

[Back](#)

[Create project](#)


The screenshot shows the SonarQube cloud interface. On the left, there are filters for Quality Gate (Passed: 0, Failed: 0) and Reliability (A: 1, B: 0, C: 0, D: 0, E: 0). The main area displays project details for 'patriciasfo / pmdm' (New, Public). The last analysis was on 01/10/2025 at 12:19, with 2 Lines of Code in Kotlin. The analysis results are as follows:

Metric	Value
Security	A 0
Reliability	A 0
Maintainability	A 0
Hotspots Reviewed	A 100%
Duplications	0.0%

1 of 1 shown

Si necesitamos añadir un proyecto nuevo para analizar:

← → ↺ sonarcloud.io/projects/create



My ProjectsMy IssuesExplore

Upgrade

Organization

Analyze new project

Create new organization

Enterprise

Create new enterprise

## Analyze projects

Select repositories from one of your GitHub organization.

Organization

patriciasfo

[Import another organization](#)

☐ Select all on this page

☐ biblioteca\_devops

☒ biblioteca


### 1 repository selected

1 repository will be created as a public project on SonarQube Cloud

Set Up

Just testing? You can [create a project manually](#).  
[Setup a monorepo.](#)

← → ↺ sonarcloud.io/projects/create




My ProjectsMy IssuesExplore

## Set up new code for project

The new code definition sets the criteria for what's considered new code, allowing you to focus on the most recent changes in your project.

This setting allows project administrators to customize the new code definition for their project. [Learn more in documentation](#)

 Your organization's new code definition is not set

Set a new code definition for your organisation to use it by default for all new projects

[patriciasfo - Administration - New Code](#)

### New code definition for this project:

☒ Previous version


Any code that has changed since the previous version is considered new code. Recommended for projects following regular versions or releases.

☐ Number of days

Any code that has changed in the last x days is considered new code. If no action is taken on a new issue after x days, this issue will become part of the overall code. Recommended for projects following continuous delivery.

Back

Create project

 You can change this at any time in the project administration

sonarcloud.io/project/configuration/AutoScan?id=patriciasfo\_biblioteca

SonarQube cloud

My Projects My Issues Explore

biblioteca


Public

Overview

Main Branch

Pull Requests 0

Branches 0



**We are analyzing your project.**

You should see this page refresh in a few moments with your analysis results.

- ✓ You will get a first analysis of your default branch and the 5 most recently active Pull Requests.
- ✓ Each new push on your default branch will trigger a new analysis automatically.
- ✓ Each new push to a Pull Request will also trigger an analysis.

Check these useful links while you wait:

[Learn about the SonarQube Cloud Core Concepts while you wait](#)

sonarcloud.io/summary/overall?id=patriciasfo\_biblioteca&branch=master

SonarQube cloud

My Projects My Issues Explore

patriciasfo > biblioteca > master

Summary Issues Security Hotspots Measures Code Activity

**Main Branch Summary**

74 Lines of Code • Last analysis in 50 minutes • 51bc807f

Quality Gate: [Sonar way](#)

**Not computed**

Next scan will generate a Quality Gate.

Security	0 Open issues	Reliability	0 Open issues	Maintainability	1 Open issues
Accepted Issues	0	Coverage	A few extra steps are needed for SonarQube Cloud to analyze your code coverage. <a href="#">Set up coverage analysis</a>		
Security Hotspots	0	Duplications	0.0% No conditions set on 87 Lines		

sonarcloud.io/organizations/patriciasfo/projects

SonarQube cloud

My Projects My Issues Explore

patriciasfo

Free plan  
Key: patriciasfo

Projects Quality profiles Rules Quality Gates Members Billing and upgrade Administration

Filters

Quality Gate

Passed 0

Failed 0

Reliability

A 2

B 0

C 0

D 0

E 0

Search projects (minimum ...)

Perspective Overall Status

Sort by Name

2 projects

biblioteca New Public

Not computed

Last analysis: 15/10/2025, 12:59 • 74 Lines of Code • XML, Java, ...

0 0 1 100% 0.0%

Security Reliability Maintainability Hotspots Reviewed Duplications

pmdm Public

Not computed

Last analysis: 01/10/2025, 12:19 • 2 Lines of Code • Kotlin

Si se hace cualquier cambio en el proyecto, tras hacer PULL, sonarqube analizará el código de nuevo. Igual hay que esperar un poco o, si no se quiere esperar, se puede forzar su actualización.

 biblioteca New Public

✓ Passed

Last analysis: 16/10/2025, 10:05 • 74 Lines of Code • XML, Java, ...

A 0

Security

A 0

Reliability

A 1

Maintainability

A 100%

Hotspots Reviewed

A 0.0%

Duplications

 pmdm Public

— Not computed

Last analysis: 01/10/2025, 12:19 • 2 Lines of Code • Kotlin

Latest Activity Refresh to see new Activity

FIRST ANALYSIS ⓘ Main Branch

— Not computed

15 October at 13:03  51bc907f Initial commit


1 Issues 0.0% Coverage 0.0% Duplications 74 Lines of Code

Show Older Activity

## INSTALACIÓN CON SONARQUBE ON PREMISE

1. Descargar e instalar SonarQube Community edition (<https://youtu.be/7UIWPIWrkpY>)

Acceder a la url <https://www.sonarsource.com/> y realizar los siguientes pasos:

 Sonar Products Why Sonar Pricing Developers Resources Community

SonarQube Server Deploy What's new Why upgrade Docs Download

NEW Visit the SonarQube Update Hub: You'll find resources for a seamless 2025.1 LTA

**Community Build**  
Release 25.10.0.11431

Free and open source  
for productivity & code  
quality

Download for free

**Developer edition**  
2025 Release 5 | September

Essential capabilities for  
small teams &  
businesses

Try for free

**Enterprise edition**  
2025 Release 5 | September

Designed to meet  
Enterprise-level  
requirements

Try for free

No es necesario registrarse, así que pulsar directamente 'Download only'.

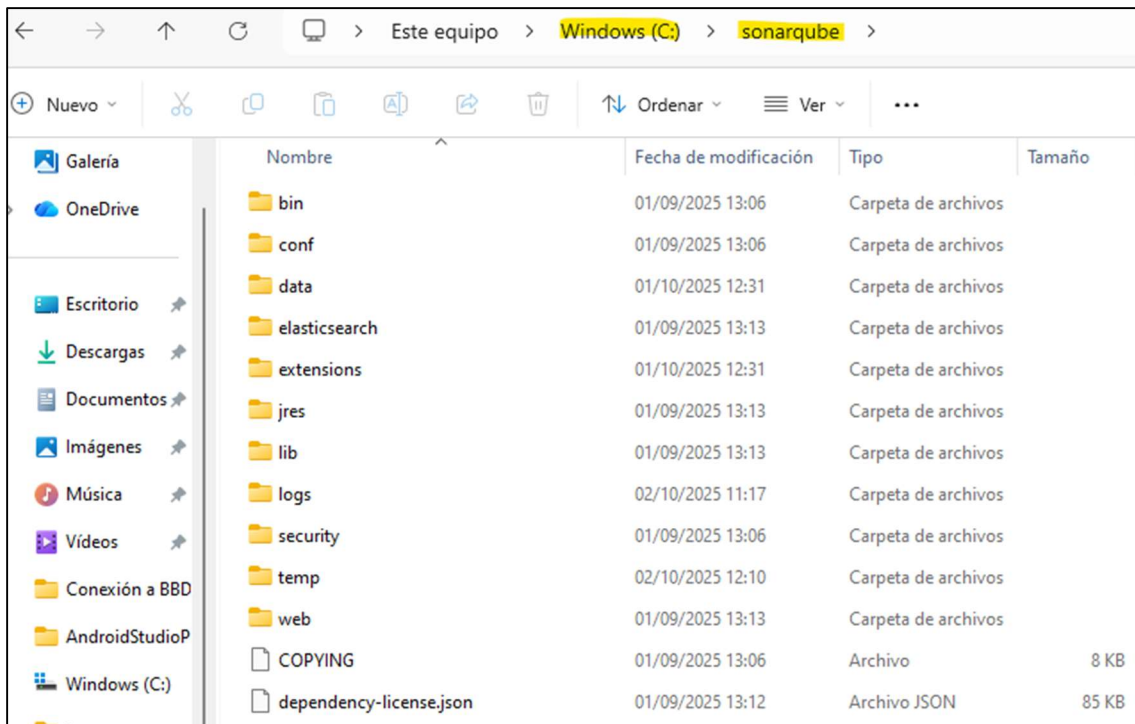
☐ I do not wish to receive promotional emails about upcoming SonarQube updates, new releases, news and events.

**Sign up and download**

By submitting this form, you agree to the storing and processing of your personal data as described in the [Privacy Policy](#) and [Cookie Policy](#). You can withdraw your consent by unsubscribing at any time. This site is protected by reCAPTCHA and the Google [Privacy Policy](#) and [Terms of Service](#) apply.

**Download only**

Se descarga un .zip que descomprimos, por ejemplo, en C:\, y lo renombramos a sonarqube:



Abrir cmd como administrador, situarse en C:\sonarqube\bin\windows-x86-64 (o el sistema operativo que corresponda) y ejecutar StartSonar.bat:

```
C:\Windows\System32>cd c:\sonarqube\bin\windows-x86-64
c:\sonarqube\bin\windows-x86-64>StartSonar.bat
```

```
c:\sonarqube\bin\windows-x86-64>StartSonar.bat
Starting SonarQube...
2025.10.16 10:50:28 INFO app[[o.s.a.AppFilesystem] Cleaning or creating temp directory C:\sonarqube\temp
2025.10.16 10:50:28 INFO app[[o.s.a.es.EsSettings] Elasticsearch listening on [HTTP: 127.0.0.1:9001, TCP: 127.0.0.1:{}]
2025.10.16 10:50:28 INFO app[[o.s.a.ProcessLauncherImpl] Launch process[ELASTICSEARCH] from [C:\sonarqube\elasticsearch]: C:\Program Files\Java\jdk-21\bin\java -Xms4m -Xmx64m -XX:+UseSerialGC -Dcli.name=server -Dcli.script=./bin/elasticsearch -Dcli.libs=lib/tools/server-cli -Des.path.home=C:\sonarqube\elasticsearch -Des.path.conf=C:\sonarqube\temp\conf\es -Des.distribution.type=tar -cp C:\sonarqube\elasticsearch\lib\*;C:\sonarqube\elasticsearch\lib\cli-launcher\* org.elasticsearch.launcher.CliToolLauncher
2025.10.16 10:50:28 INFO app[[o.s.a.SchedulerImpl] Waiting for Elasticsearch to be up and running
Standard Commons Logging discovery in action with spring-jcl: please remove commons-logging.jar from classpath in order to avoid potential conflicts
oct 16, 2025 10:50:39 AM sun.util.locale.provider.LocaleProviderAdapter <clinit>
WARNING: COMPAT locale provider will be removed in a future release
2025.10.16 10:51:04 INFO app[[o.s.a.SchedulerImpl] Process[es] is up
2025.10.16 10:51:04 INFO app[[o.s.a.ProcessLauncherImpl] Launch process[WEB_SERVER] from [C:\sonarqube]: C:\Program Files\Java\jdk-21\bin\java -Djava.awt.headless=true -Dfile.encoding=UTF-8 -Djava.io.tmpdir=C:\sonarqube\temp -XX:-OmitStackTraceInFastThrow --add-opens=java.base/java.util=ALL-UNNAMED --add-opens=java.base/java.lang=ALL-UNNAMED --add-opens=java.base/java.io=ALL-UNNAMED --add-opens=java.rmi/sun.rmi.transport=ALL-UNNAMED --add-exports=java.base/jdk.internal.ref=ALL-UNNAMED --add-opens=java.base/java.nio=ALL-UNNAMED --add-opens=java.base/sun.nio.ch=ALL-UNNAMED --add-opens=java.management/sun.management=ALL-UNNAMED --add-opens=jdk.management/com.sun.management.internal=ALL-UNNAMED -Xmx512m -Xms128m -XX:+HeapDumpOnOutOfMemoryError -Dhttp.nonProxyHosts=localhost|127.*|:::1 -cp ./lib/sonar-application-25.9.0.112764.jar;C:\sonarqube\lib\jdbc\h2-2.3.232.jar org.sonar.server.app.WebServer C:\sonarqube\temp\sq-process17951539302608271474
properties
Standard Commons Logging discovery in action with spring-jcl: please remove commons-logging.jar from classpath in order to avoid potential conflicts
2025.10.16 10:51:20 INFO app[[o.s.a.SchedulerImpl] Process[web] is up
2025.10.16 10:51:21 INFO app[[o.s.a.ProcessLauncherImpl] Launch process[COMPUTE_ENGINE] from [C:\sonarqube]: C:\Program Files\Java\jdk-21\bin\java -Djava.awt.headless=true -Dfile.encoding=UTF-8 -Djava.io.tmpdir=C:\sonarqube\temp -XX:-OmitStackTraceInFastThrow --add-opens=java.base/java.util=ALL-UNNAMED --add-exports=java.base/jdk.internal.ref=ALL-UNNAMED --add-opens=java.base/java.lang=ALL-UNNAMED --add-opens=java.base/java.nio=ALL-UNNAMED --add-opens=java.base/sun.nio.ch=ALL-UNNAMED --add-opens=java.management/sun.management=ALL-UNNAMED --add-opens=jdk.management/com.sun.management.internal=ALL-UNNAMED -Xmx512m -Xms128m -XX:+HeapDumpOnOutOfMemoryError -Dhttp.nonProxyHosts=localhost|127.*|:::1 -cp ./lib/sonar-application-25.9.0.112764.jar;C:\sonarqube\lib\jdbc\h2-2.3.232.jar org.sonar.ce.app.CeServer C:\sonarqube\temp\sq-process6097233636777853679properties
Standard Commons Logging discovery in action with spring-jcl: please remove commons-logging.jar from classpath in order to avoid potential conflicts
2025.10.16 10:51:27 INFO app[[o.s.a.SchedulerImpl] Process[ce] is up
2025.10.16 10:51:27 INFO app[[o.s.a.SchedulerImpl] SonarQube is operational
```

Para comprobar que todo está correcto, en el navegador accedemos a la url <http://localhost:9000> y se tiene que mostrar la pantalla de login de sonar. Debemos utilizar como usuario y contraseña **admin**. Según accedemos, hay que cambiar la contraseña (xxxx2025...):



## Log in to SonarQube

Login \*

Password \*

[Go back](#) [Log in](#)

## Update your password

 This account should not use the default password.

### Enter a new password

Old Password \*

Password \*

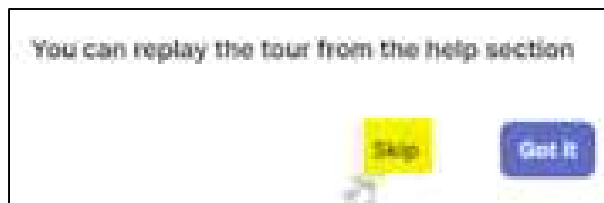
Your password must include at least:

- ☒ 12 characters
- ☒ 1 upper case letter
- ☒ 1 lower case letter
- ☒ 1 number
- ☒ 1 special character

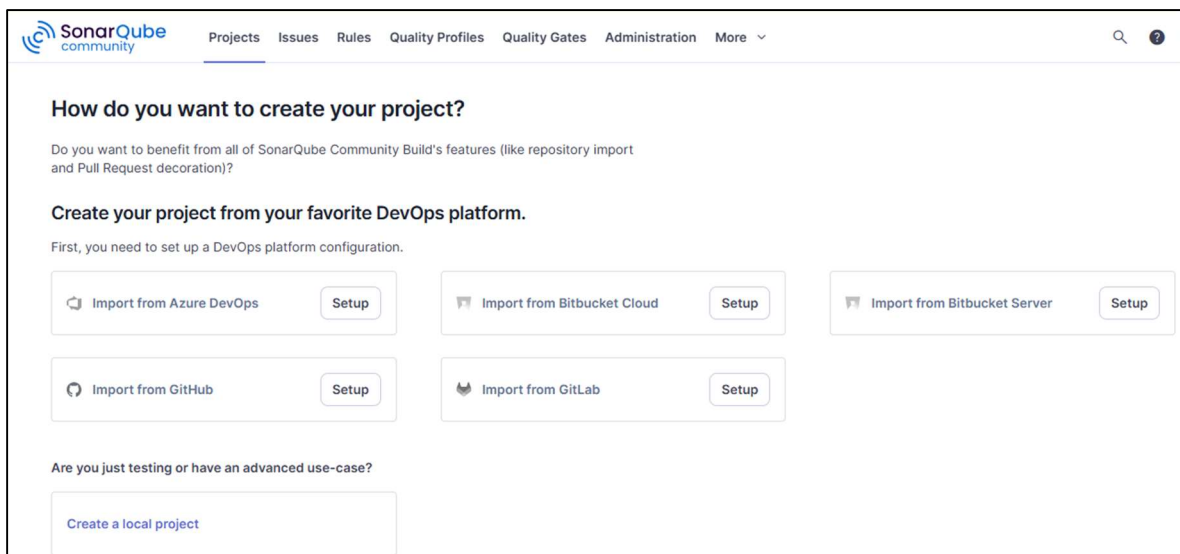
Confirm Password \*

[Update](#)

Las próximas pantallas, son de información de utilidad, tutoriales, etc. Se puede acceder más tarde a ellas, así que en principio las obviamos, salvo si se está muy interesado:

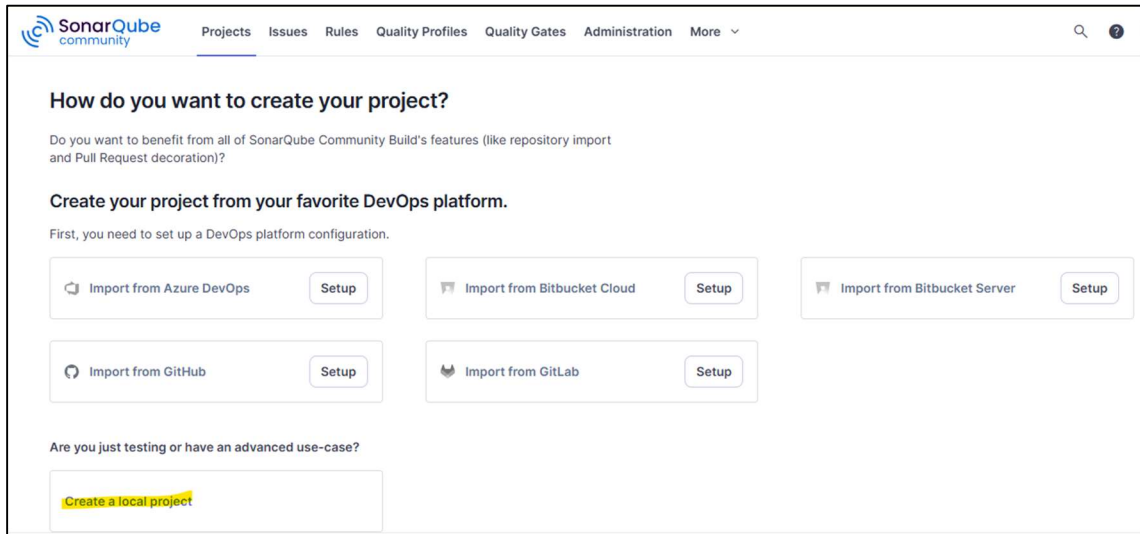


Una vez finalizado, nos aparece la siguiente pantalla donde podremos importar los proyectos a analizar:



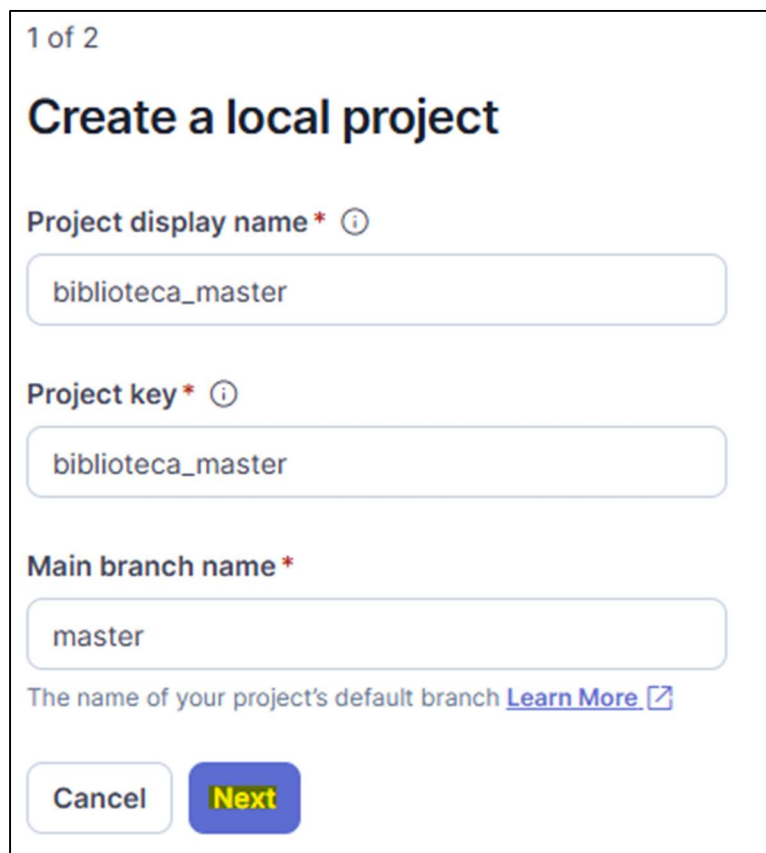
2. Analizar el código de un proyecto (<https://www.youtube.com/watch?v=v3evzZ-JOQo>)

Vamos a utilizar la opción de proyecto local, ya que es la más común:



The screenshot shows the SonarQube Community interface for creating a project. The header includes the SonarQube logo and navigation links: Projects, Issues, Rules, Quality Profiles, Quality Gates, Administration, and More. The main heading is 'How do you want to create your project?'. Below it, a question asks if the user wants to benefit from all features like repository import and Pull Request decoration. The section 'Create your project from your favorite DevOps platform.' instructs the user to first set up a DevOps platform configuration. It offers five options: 'Import from Azure DevOps', 'Import from Bitbucket Cloud', 'Import from Bitbucket Server', 'Import from GitHub', and 'Import from GitLab', each with a 'Setup' button. At the bottom, a question asks 'Are you just testing or have an advanced use-case?'. Below this, the 'Create a local project' option is highlighted in yellow.

El nombre puede ser el que nosotros queramos. Al añadirlo, automáticamente nos genera una identificación única del proyecto (Project key) e indicamos la rama:



The screenshot shows the 'Create a local project' form, which is the first of two steps. The title 'Create a local project' is prominently displayed. The form contains three required fields: 'Project display name', 'Project key', and 'Main branch name'. Each field has a text input box and an information icon. The 'Project display name' and 'Project key' fields both contain the text 'biblioteca\_master'. The 'Main branch name' field contains the text 'master'. Below the fields, a note states 'The name of your project's default branch' followed by a 'Learn More' link. At the bottom, there are two buttons: 'Cancel' and 'Next'.

## Configuraciones:

### Set up project for Clean as You Code

The new code definition sets which part of your code will be considered new code. This helps you focus attention on the most recent changes to your project, enabling you to follow the Clean as You Code methodology. Learn more: [Defining New Code](#)

Choose the baseline for new code for this project

☒ Use the global setting

**Previous version**  
Any code that has changed since the previous version is considered new code.  
Recommended for projects following regular versions or releases.

☐ Define a specific setting for this project

☐ Previous version  
Any code that has changed since the previous version is considered new code.  
Recommended for projects following regular versions or releases.

☐ Number of days  
Any code that has changed in the last x days is considered new code. If no action is taken on a new issue after x days, this issue will become part of the overall code.  
Recommended for projects following continuous delivery.

☐ Reference branch  
Choose a branch as the baseline for the new code.  
Recommended for projects using feature branches.

[Back](#) [Create project](#)

### Analysis Method

Use this page to manage and set-up the way your analyses are performed.

How do you want to analyze your repository?

With Jenkins

With GitHub Actions

With Bitbucket Pipelines

With GitLab CI

With Azure Pipelines

Other CI  
SonarQube Community Build integrates with your workflow no matter which CI tool you're using.

**Locally**

Use this for testing or advanced use-case. Other modes are recommended to help you set up your CI environment.

Hay que generar un token, que es una medida de seguridad, e indicarle el tiempo que va a tardar en expirar:

## Analyze your project

We initialized your project on SonarQube Community Build, now it's up to you to launch analyses!

### 1 Provide a token

Generate a project token

Use existing token

Token name \* ⓘ

Analyze "biblioteca\_master"

Expires in

30 days

Generate

ⓘ Please note that this token will only allow you to analyze the current project. If you want to use the same token to analyze multiple projects, you need to generate a global token in your [user account](#) ⓘ. See the [documentation](#) for more information.

The token is used to identify you when an analysis is performed. If it has been compromised, you can revoke it at any point in time in your [user account](#) ⓘ.

Hay que **copiar el token** generado y pegarlo en un bloc de notas o similar, ya que más adelante se va a necesitar:

## Analyze your project

We initialized your project on SonarQube Community Build, now it's up to you to launch analyses!

### 1 Provide a token

Analyze "biblioteca\_master": **sqp\_12b10daadb0ec5ad0c6da2754997e54284d6f49e** ⓘ

The token is used to identify you when an analysis is performed. If it has been compromised, you can revoke it at any point in time in your [user account](#) ⓘ.

Continue

1 Provide a token
Analyze "biblioteca"

2 Run analysis on your project

What option best describes your project?

Maven
Gradle
JS/TS & Web
.NET
Python
Other (for Go, PHP, ...)

### Execute the Scanner for Maven

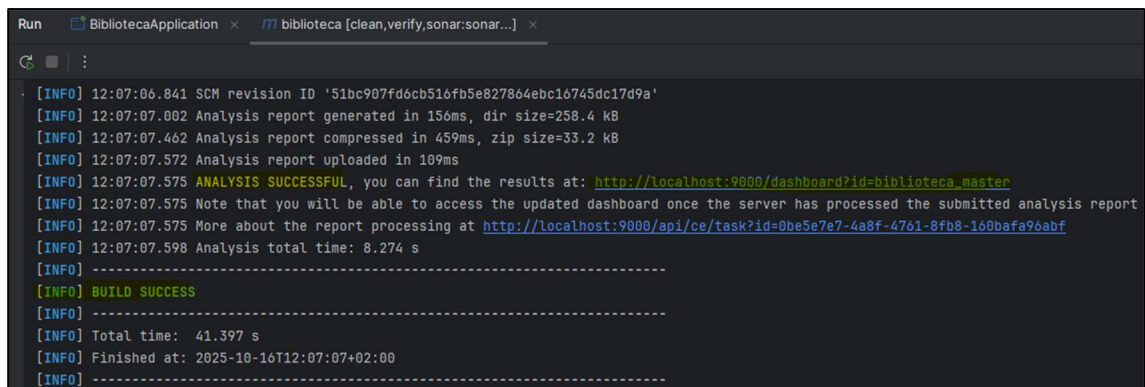
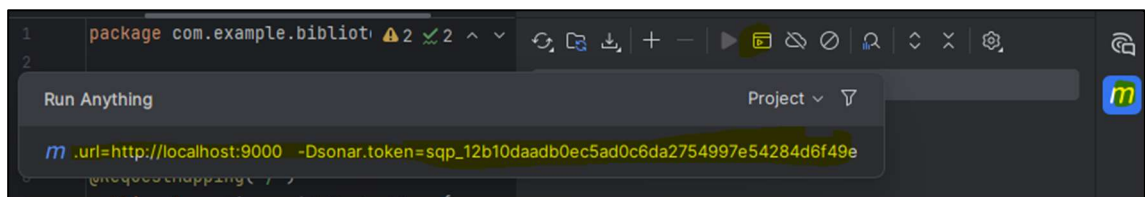
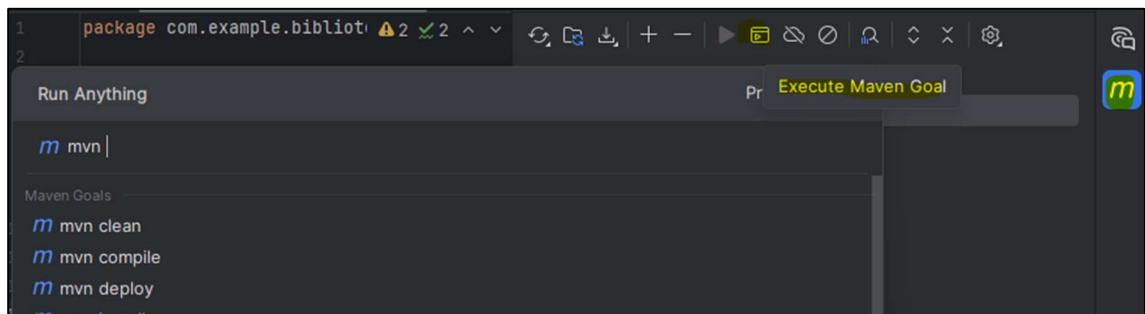
Running a SonarQube analysis with Maven is straightforward. You just need to run the following command in your project's folder.

```

mvn clean verify sonar:sonar \
-Dsonar.projectKey=biblioteca_master \
-Dsonar.projectName='biblioteca_master' \
-Dsonar.host.url=http://localhost:9000 \
-Dsonar.token=sqp_12b10daadb0ec5ad0c6da2754997e54284d6f49e

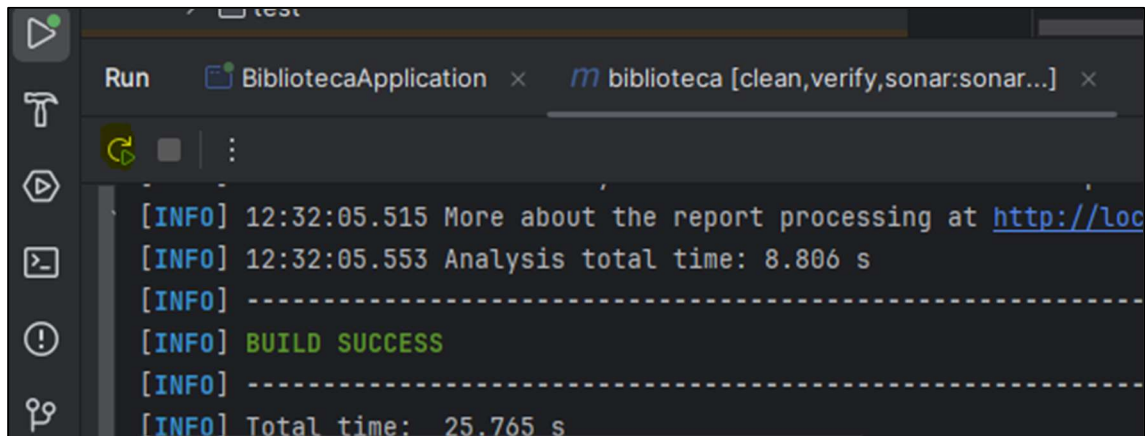
```

El código que nos generó hay que ejecutarlo en el IntelliJ Idea, como una tarea de Maven. Copiar los comandos en un bloc de notas (o Notepad, etc), eliminar las \, copiar de nuevo sin las \, pegarlo en el maven goal y ejecutarlo pulsando intro.

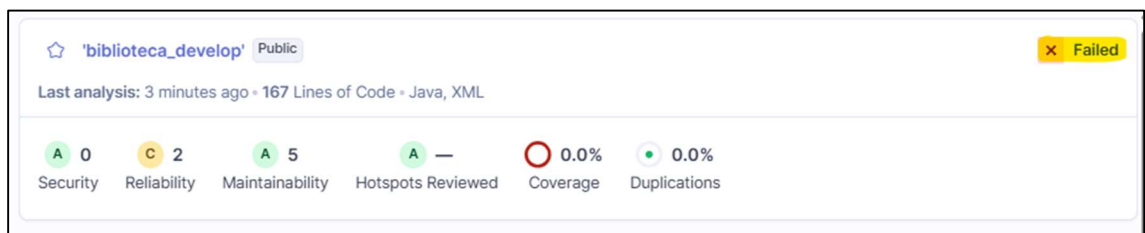


La url generada es justo el panel de control de sonarqube donde podemos ver el resultado del análisis: [http://localhost:9000/dashboard?id=biblioteca\\_master](http://localhost:9000/dashboard?id=biblioteca_master).

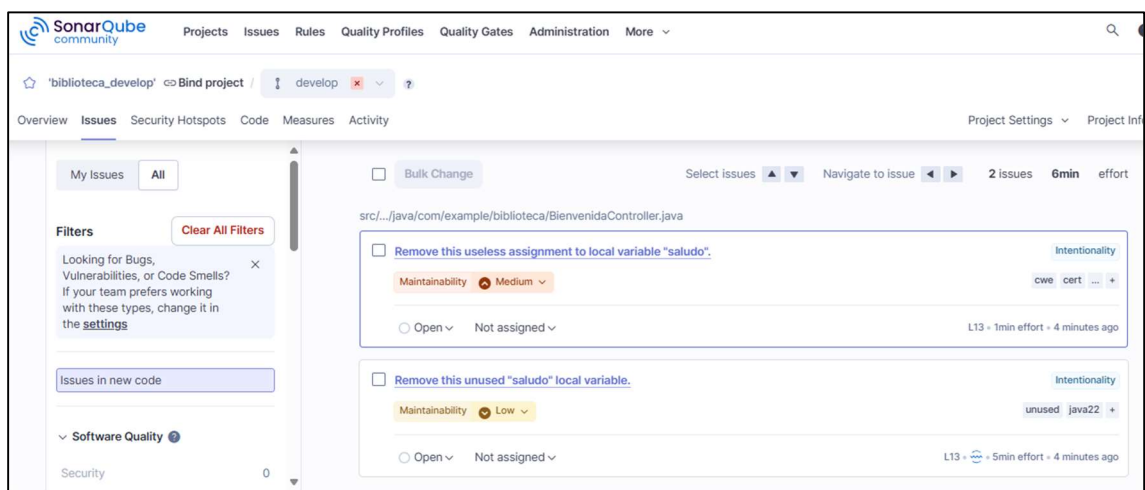
Para volver a analizar el código, una vez comiteado y pusheado los cambios, se ejecuta de nuevo la tarea Maven (por ejemplo, sobre develop) y comprobamos el resultado desde el navegador:



```
Run BibliotecaApplication x m biblioteca [clean,verify,sonar:sonar...] x
[INFO] 12:32:05.515 More about the report processing at http://loc
[INFO] 12:32:05.553 Analysis total time: 8.806 s
[INFO] -----
[INFO] BUILD SUCCESS
[INFO] -----
[INFO] Total time: 25.765 s
```



Accedemos al proyecto y podemos mirar por qué falló y cómo solucionarlo:



SonarQube community

Projects Issues Rules Quality Profiles Quality Gates Administration More

'biblioteca\_develop' Bind project develop

Overview Issues Security Hotspots Code Measures Activity

My Issues All

Filters: Clear All Filters

Looking for Bugs, Vulnerabilities, or Code Smells? If your team prefers working with these types, change it in the settings

Issues in new code

Software Quality 0

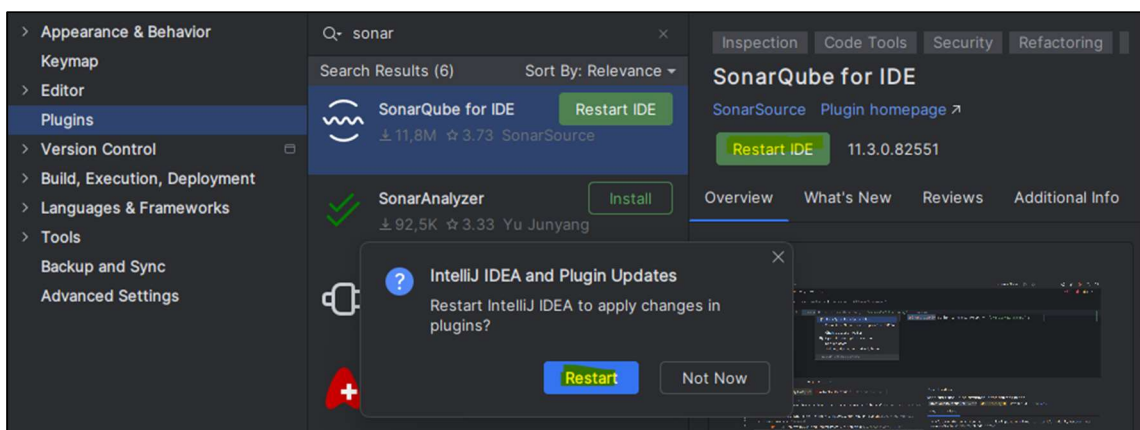
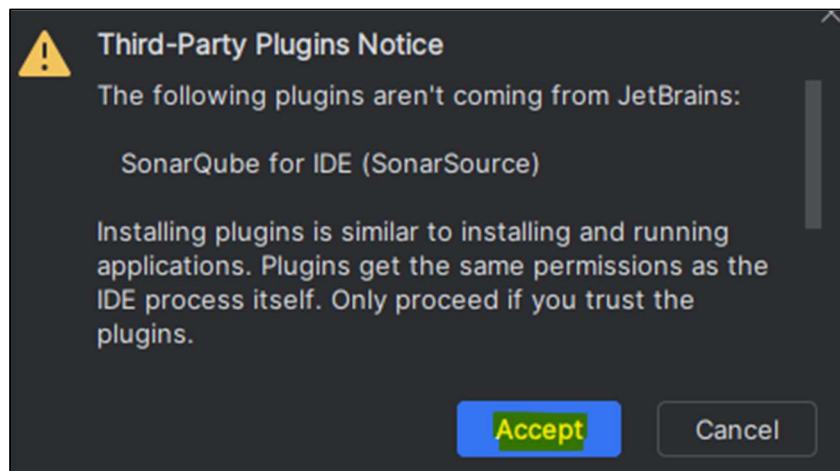
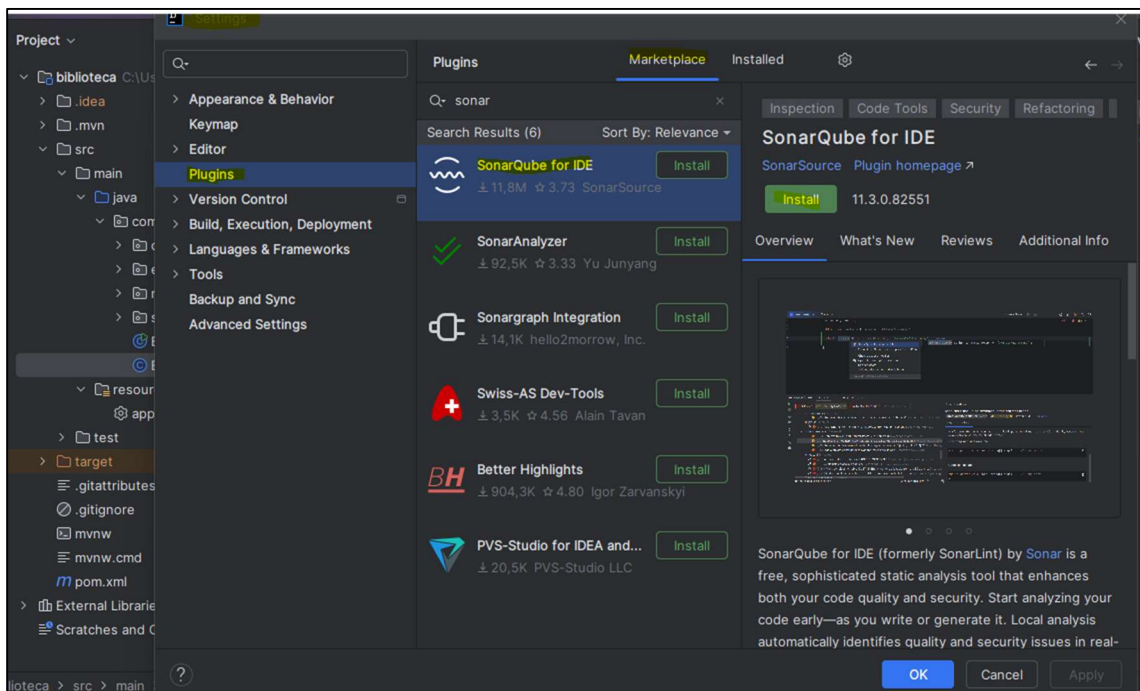
2 Issues 6min effort

src/.../java/com/example/biblioteca/BienvenidaController.java

- ☐ Remove this useless assignment to local variable "saludo".  
Maintainability Medium  
Open Not assigned L13 • 1min effort • 4 minutes ago
- ☐ Remove this unused "saludo" local variable.  
Maintainability Low  
Open Not assigned L13 • 5min effort • 4 minutes ago

## EN INTELLIJ IDEA

Instalar el plugin desde File → Settings → Plugin



Una vez reiniciado el IDE, aparecerá una nueva opción en el menú que nos permitirá analizar el código de las aplicaciones directamente:

