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.

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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

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patriciasfo ○ PUBLIC

Projects   Quality profiles   Rules   Quality Gates   Members   Billing and upgrade   Administration ⌄

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**
> 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**
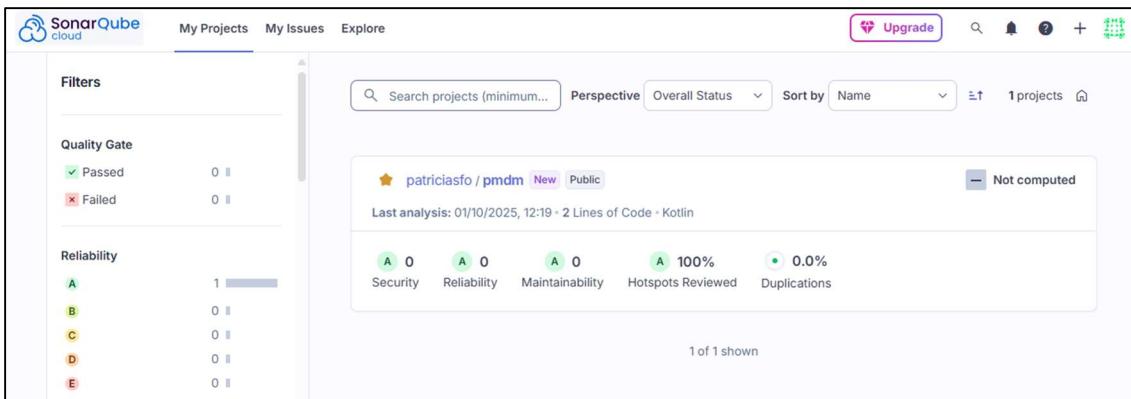
Any code that has changed in the last x days is considered new code. If no action is taken on a new issue after x days, this issu

Recommended for projects following continuous delivery.

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

Back   **Create project**

SonarQube cloud | My Projects My Issues Explore | ⚑ Upgrade 🔍 🔔 ❓ + ⊞

Filters

Search projects (minimum...   Perspective [Overall Status ▾]   Sort by [Name ▾] ⬆↑ **1** projects ⌂

Quality Gate
- ✔ Passed 0 ▮
- ✖ Failed 0 ▮

★ patriciasfo / **pmdm** New Public   — Not computed
Last analysis: 01/10/2025, 12:19 · **2** Lines of Code · Kotlin

Reliability
- A 1 ▬▬
- B 0 ▮
- C 0 ▮
- D 0 ▮
- E 0 ▮

Ⓐ 0 Ⓐ 0 Ⓐ 0 Ⓐ 100% ● 0.0%
Security Reliability Maintainability Hotspots Reviewed Duplications

1 of 1 shown

Si necesitamos añadir un proyecto nuevo para analizar:
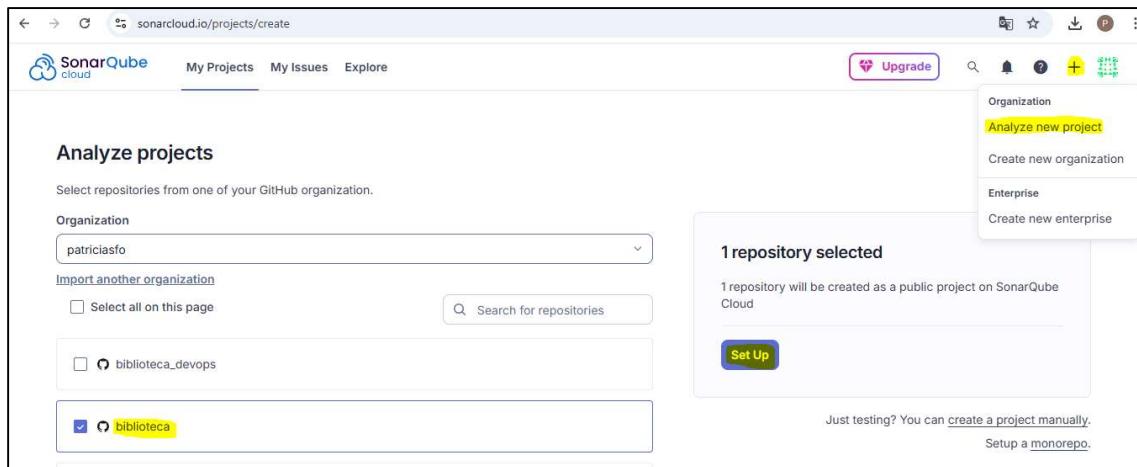
Set up new code for project

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
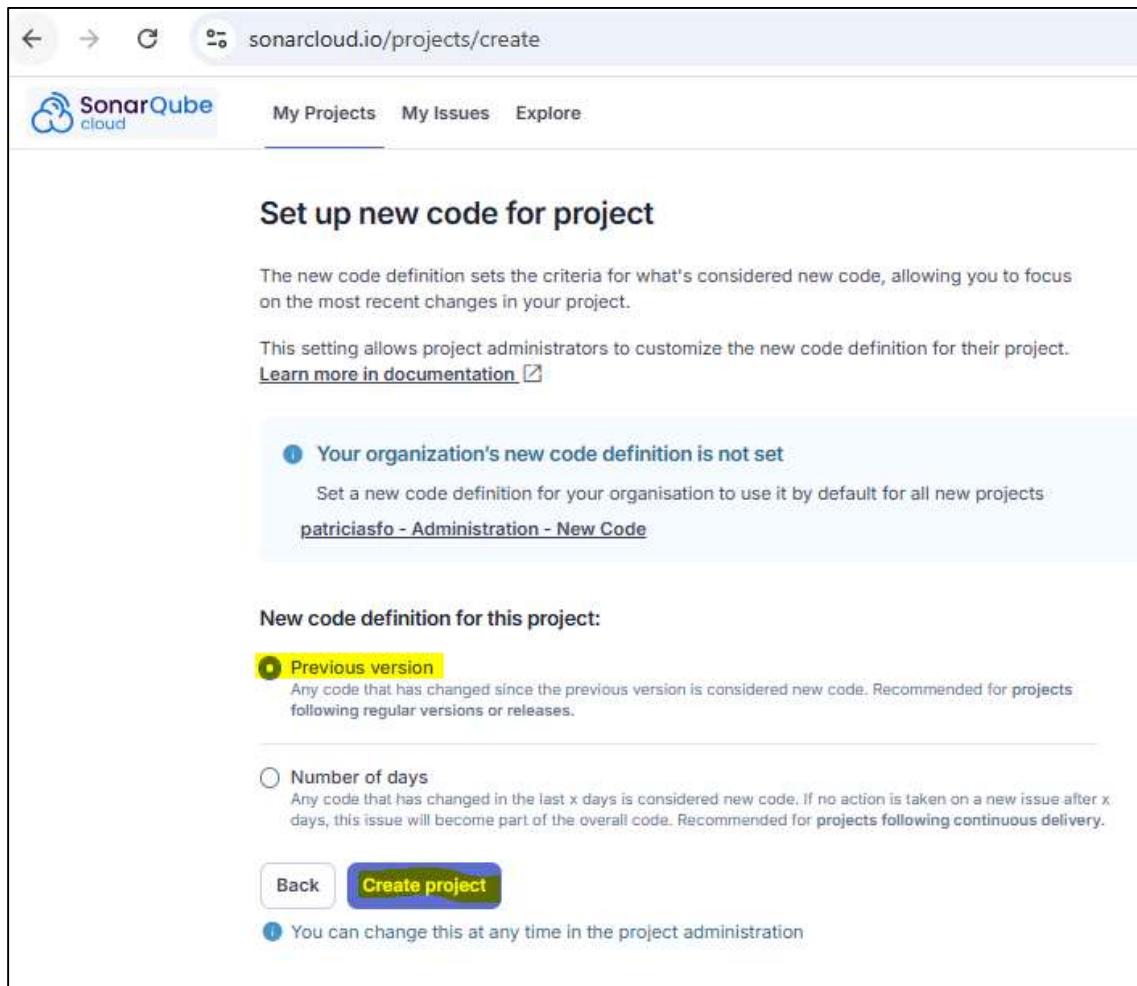
New code definition for this project:

⦿ **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
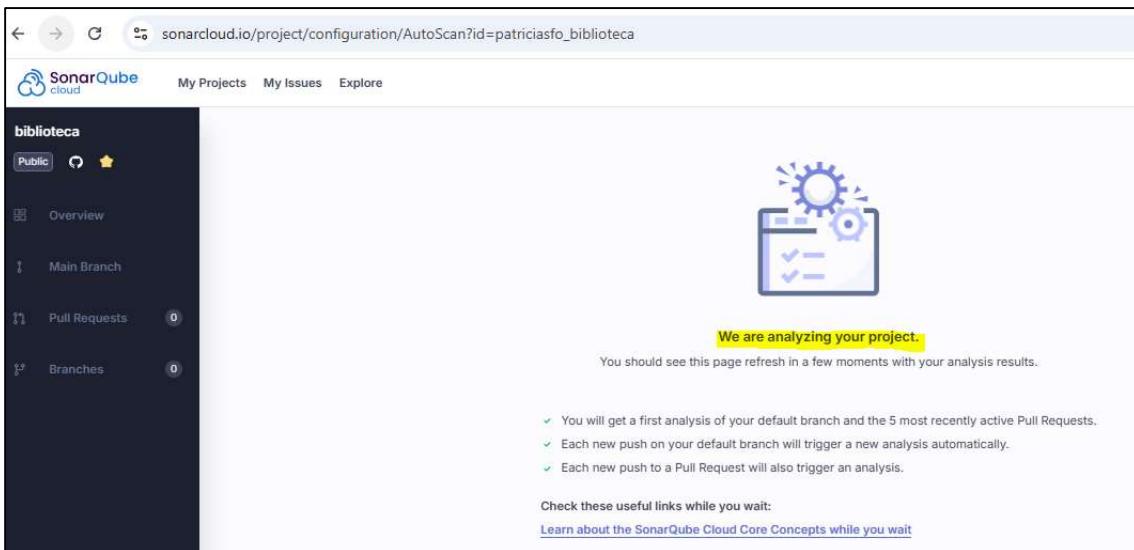
Overview
Main Branch
Pull Requests   0
Branches   0

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

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sonarcloud.io/summary/overall?id=patriciasfo_biblioteca&branch=master

SonarQube cloud

My Projects   My Issues   Explore   Upgrade

biblioteca
Public

Overview
Main Branch
Pull Requests   0
Branches   1

patriciasfo › biblioteca › master

Summary   Issues   Security Hotspots   Measures   Code   Activity
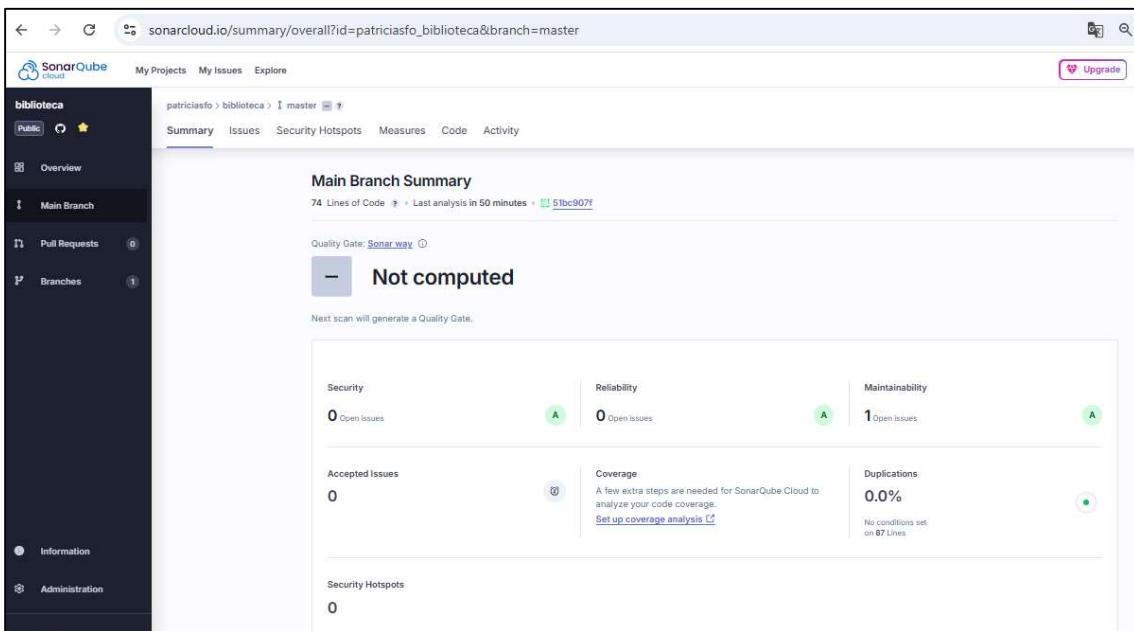
Main Branch Summary
74 Lines of Code   •   Last analysis in 50 minutes   •   51bc907f

Quality Gate: Sonar way ⓘ

— **Not computed**

Next scan will generate a Quality Gate.

Security		Reliability		Maintainability	
0 Open Issues	A	0 Open Issues	A	1 Open Issues	A

Accepted Issues		Coverage	Duplications	
0		A few extra steps are needed for SonarQube Cloud to analyze your code coverage. Set up coverage analysis	0.0% No conditions set on 87 Lines	•

Security Hotspots
0

Information
Administration

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sonarcloud.io/organizations/patriciasfo/projects

SonarQube cloud

My Projects   My Issues   Explore   Upgrade

patriciasfo   Free plan
                                                             Key: patriciasfo

Projects   Quality profiles   Rules   Quality Gates   Members   Billing and upgrade   Administration

| Filters | Search projects (minimum ... | Perspective Overall Status | Sort by Name | 2 projects |

Quality Gate
✓ Passed   0
✗ Failed   0

Reliability
A   2
B   0
C   0
D   0
E   0
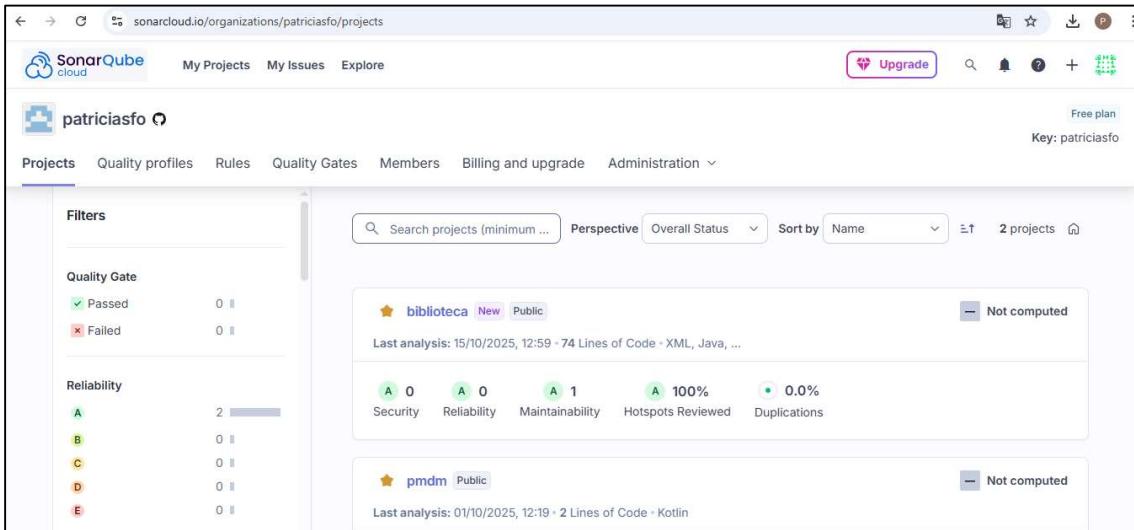
⭐ biblioteca New Public   — Not computed
Last analysis: 15/10/2025, 12:59 • 74 Lines of Code • XML, Java, ...

| A 0 | A 0 | A 1 | A 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.

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:

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

Se descarga un .zip que descomprimimos, 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:

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…):

Sonar

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 *
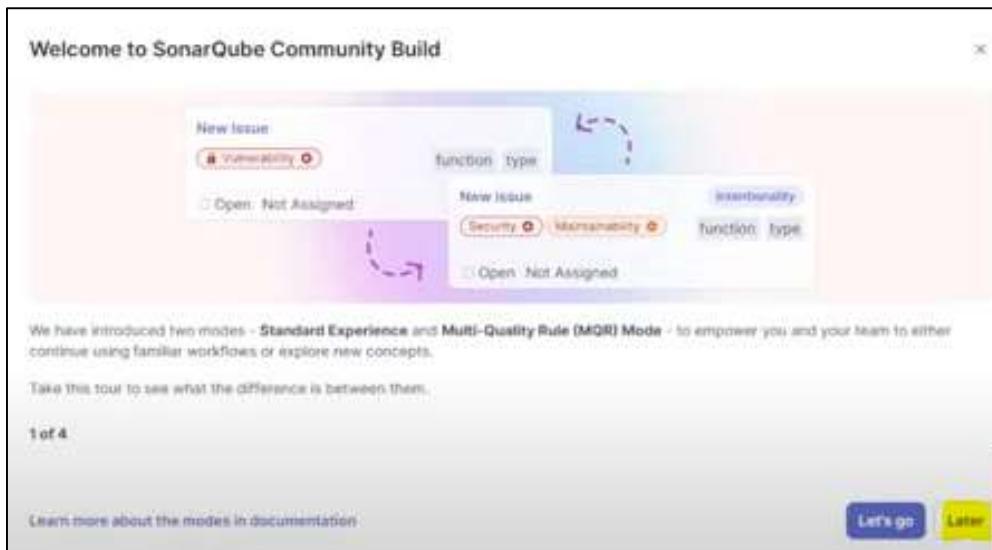
Your password must include at least:

✗ 12 characters
✗ 1 upper case letter
✗ 1 lower case letter
✗ 1 number
✗ 1 special character
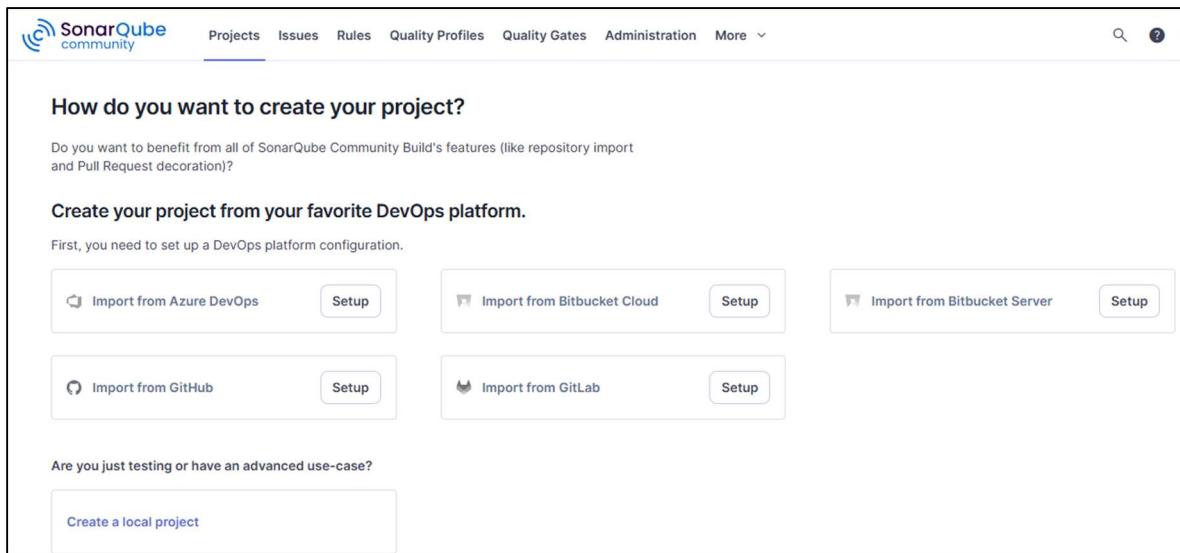
Confirm Password *

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:

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

Configuraciones:

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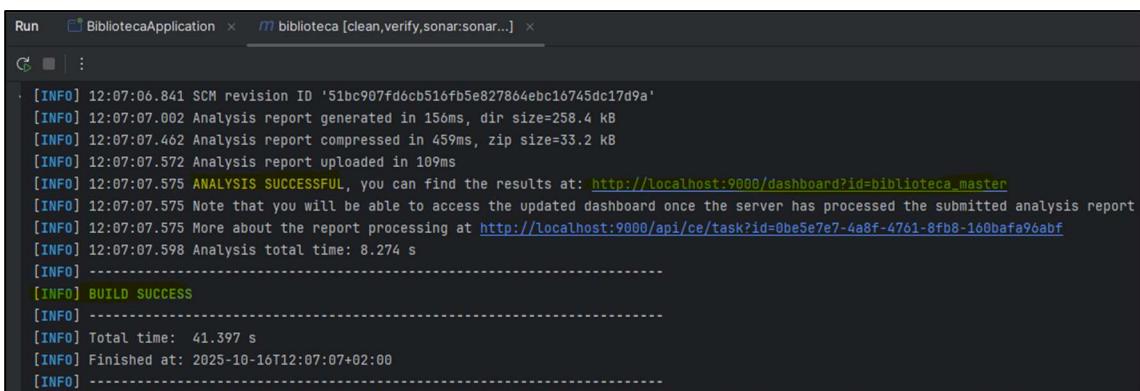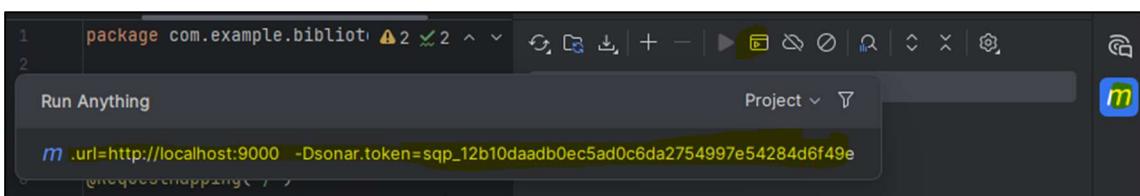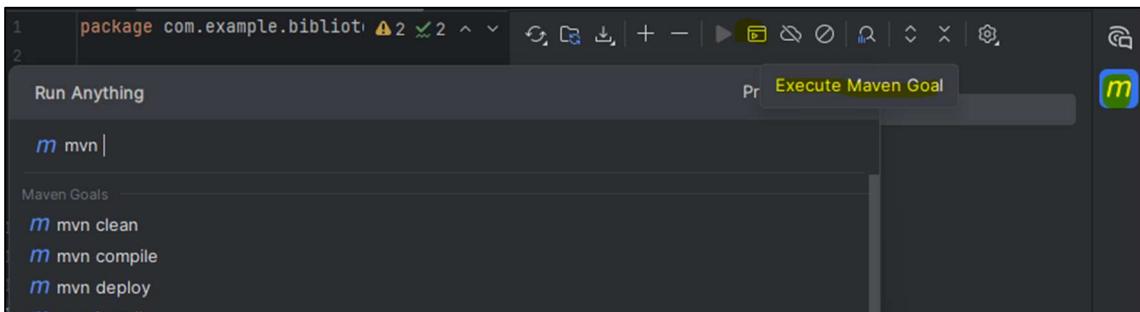
Maven | Gradle | JS/TS & Web | .NET | Python | Other (for Go, PHP, ...)

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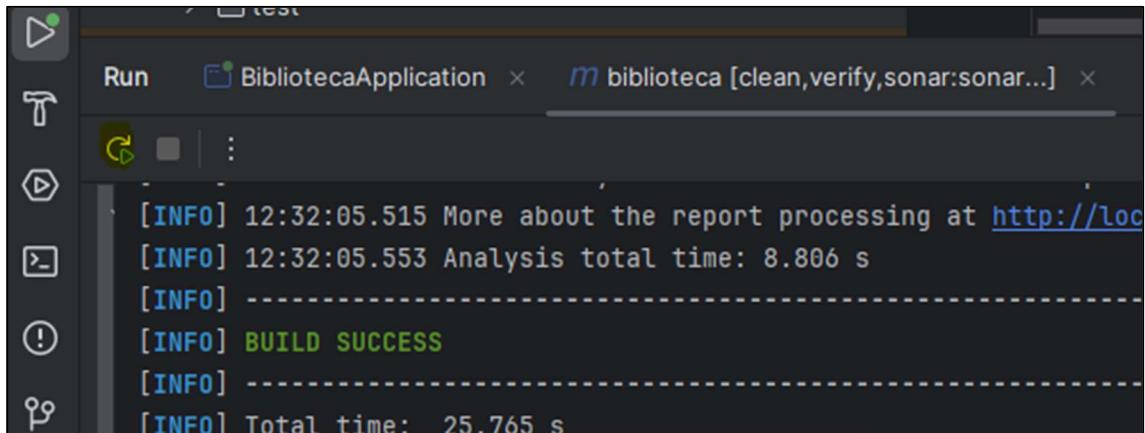
```
mvn clean verify sonar:sonar \
  -Dsonar.projectKey=biblioteca_master \
  -Dsonar.projectName='biblioteca_master' \
  -Dsonar.host.url=http://localhost:9000 \
  -Dsonar.token=sqp_12b10daadb0ec5ad0c6da2754997e54284d6f49e
```

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.
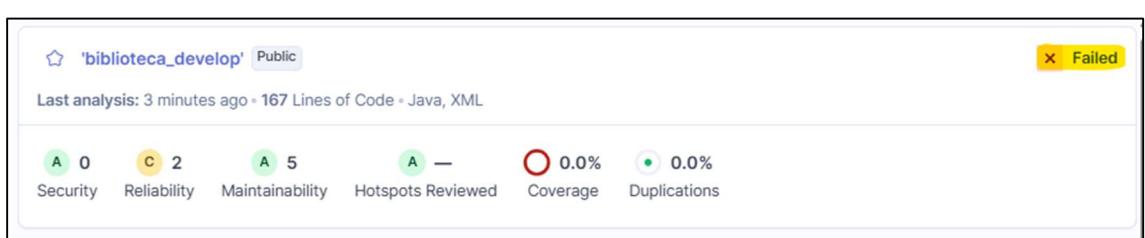
La url generada es justo el panel de control de sonarqube donde podemos ver el resultado del análisis: http://localhost:9000/dashboard?id=biblioteca_master.
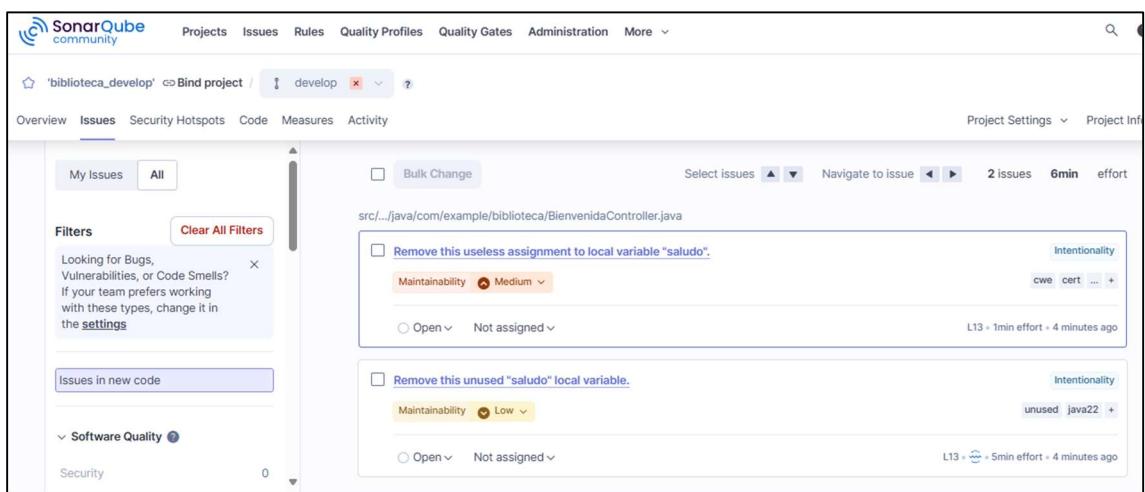
Para volver a analizar el código, una vez comiteado y pusheado los cambios, se ejecuta de nuevo la tarea Maven (por ejemplo, sobre develop) y comprobamos el resultado desde el navegador:

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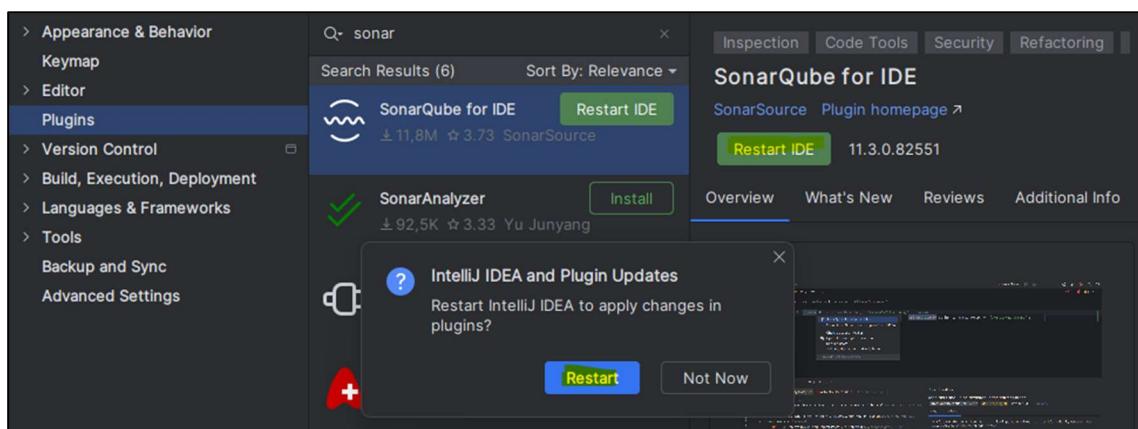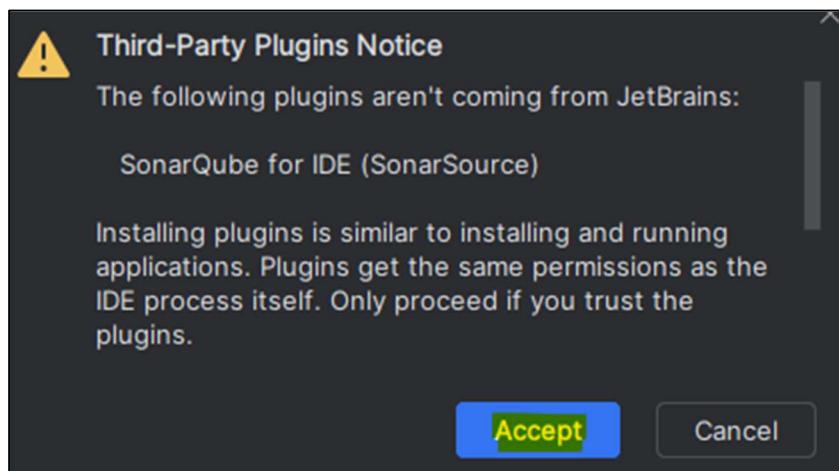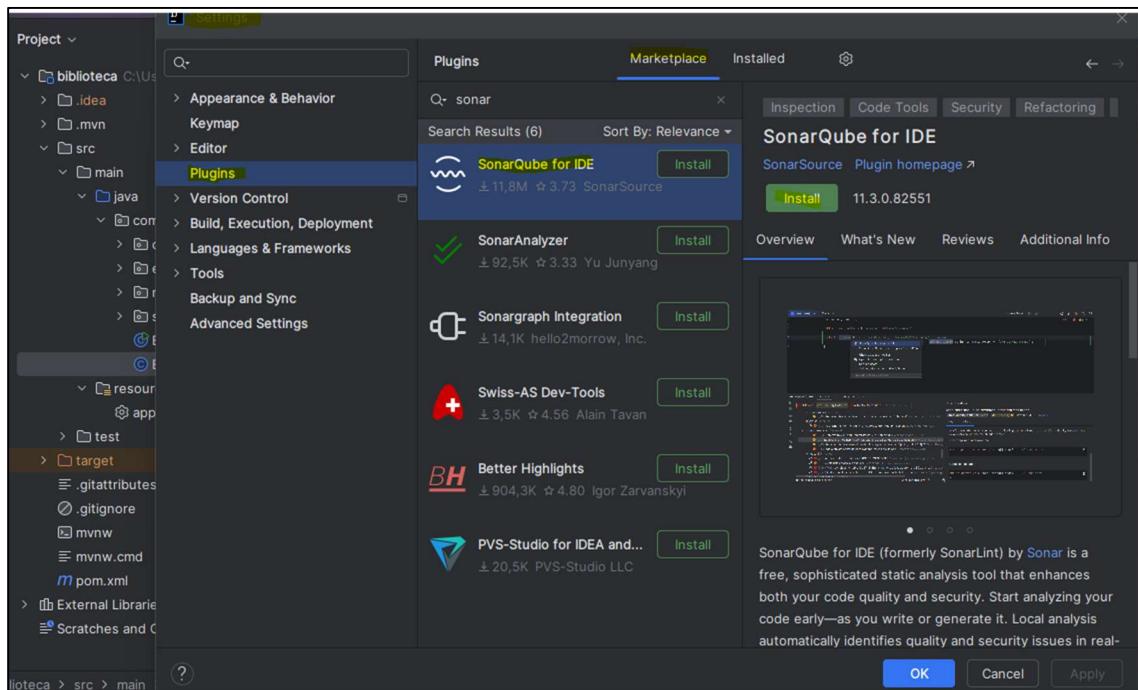
EN INTELLIJ IDEA

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: