

**UNIVERSIDAD NACIONAL DE CAJAMARCA**  
**FACULTAD DE INGENIERÍA**  
**ESCUELA PROFESIONAL DE INGENIERÍA DE SISTEMAS**



**MANUAL**

Uso de GitHub para control de versiones en  
AndroidStudio

**Asignatura**

Programación Aplicada III

**Docente**

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**Presentado por**

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**Año**

2024

Primero vamos a crear un nuevo repositorio en GitHub, que es el que vincularemos y luego usaremos como repositorio remoto para guardar nuestro historial de versiones:

New repository

Q. Type  to search

Create a new repository

A repository contains all project files, including the revision history. Already have a project repository elsewhere?  
[Import a repository.](#)

Required fields are marked with an asterisk (\*).

Owner \*

Mueblecalgo

Repository name \*

Great repository names are short and memorable. Need inspiration? How about [redesigned-journey](#)?

Description (optional)

☒ Public

Anyone on the internet can see this repository. You choose who can commit.

☐ Private

You choose who can see and commit to this repository.

Initialize this repository with:

☐ Add a README file

This is where you can write a long description for your project. [Learn more about READMEs.](#)

Add .gitignore

gitignore template: None

Choose which files not to track from a list of templates. [Learn more about ignoring files.](#)

Choose a license

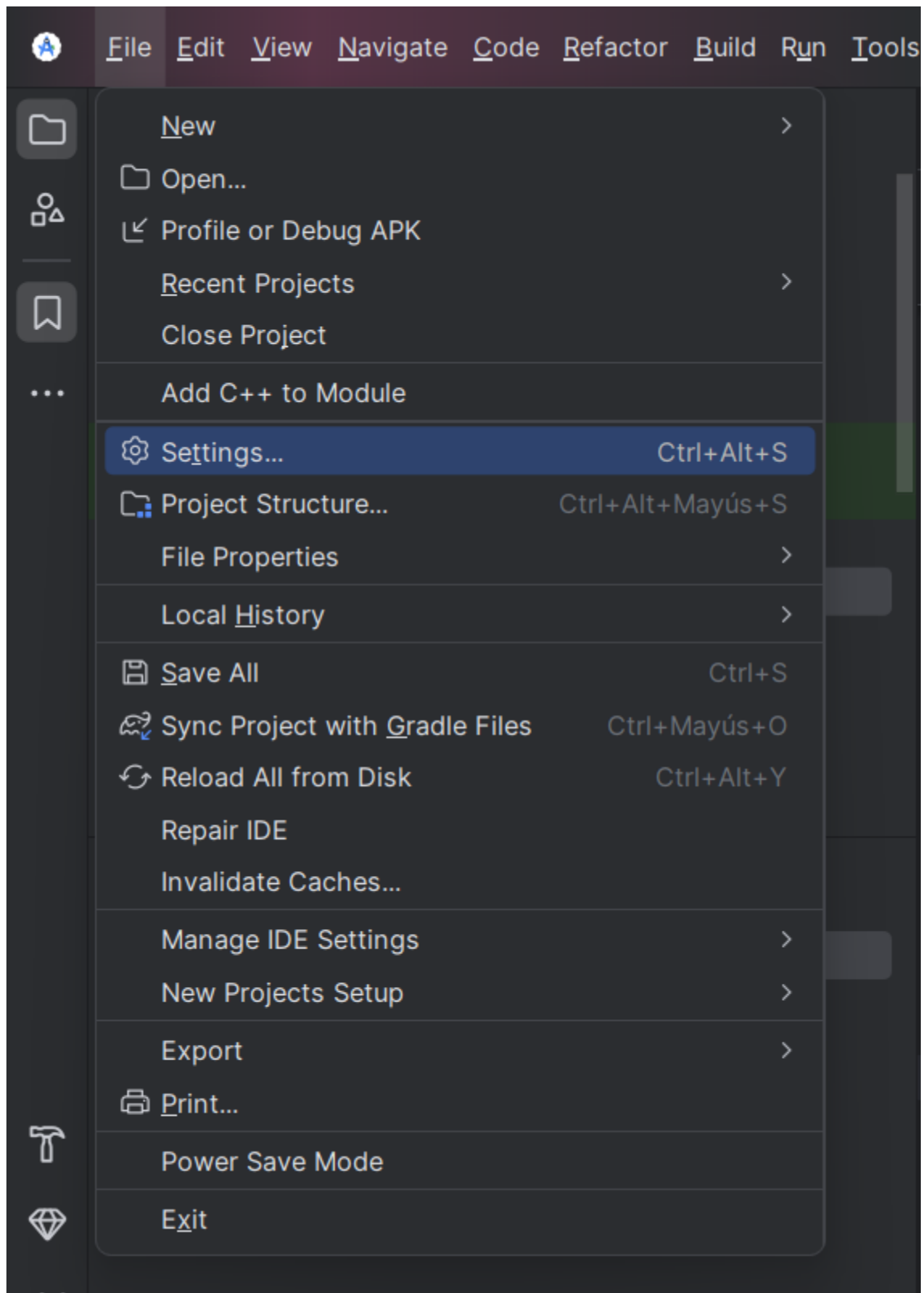
License: None

A license tells others what they can and can't do with your code. [Learn more about licenses.](#)

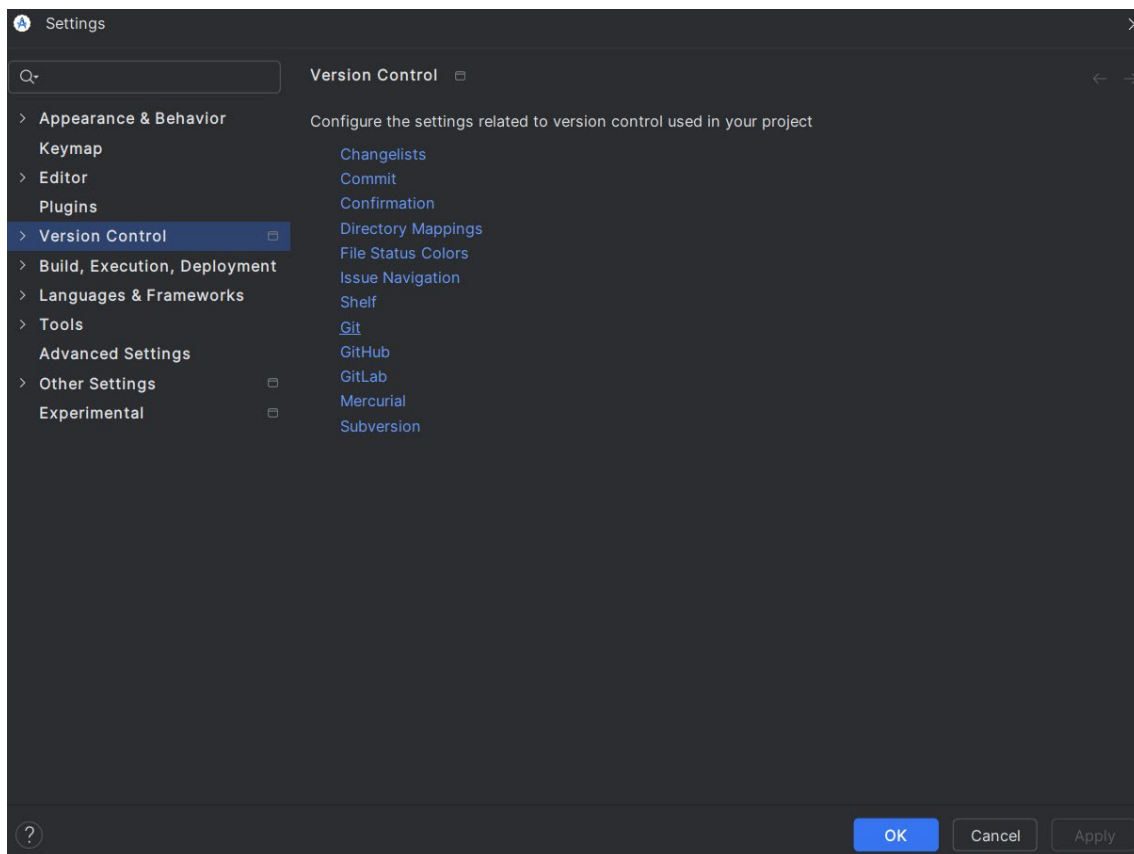
You are creating a public repository in your personal account.

Create repository

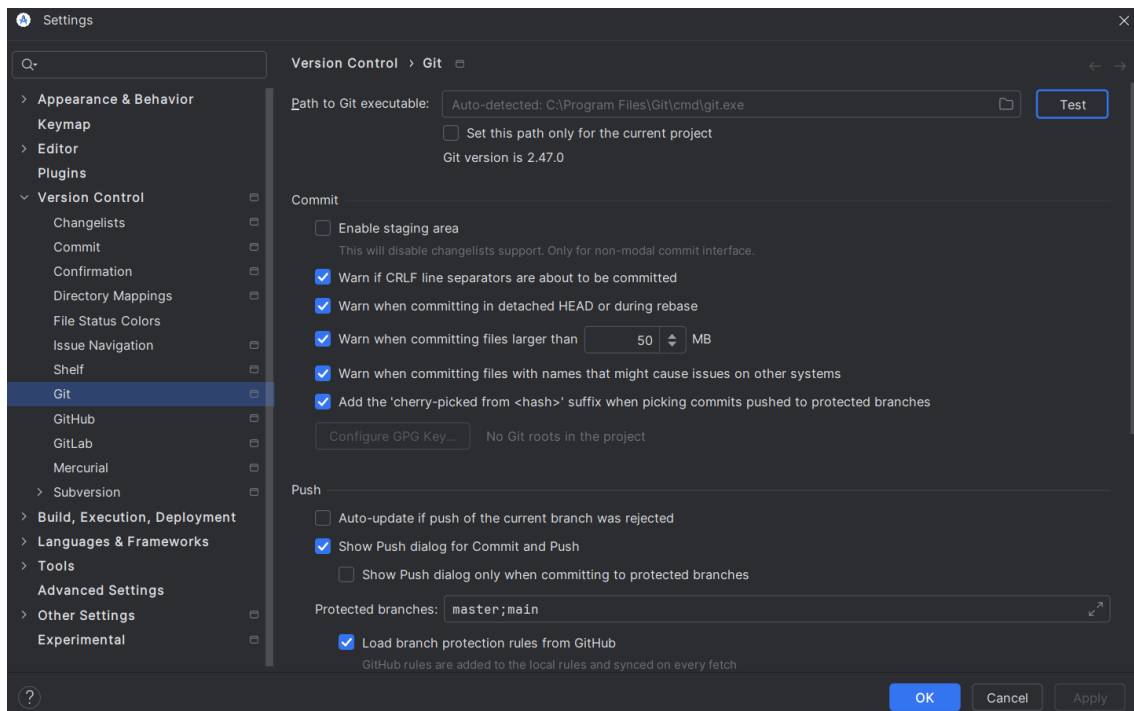
En AndroidStudio vamos a File > Settings



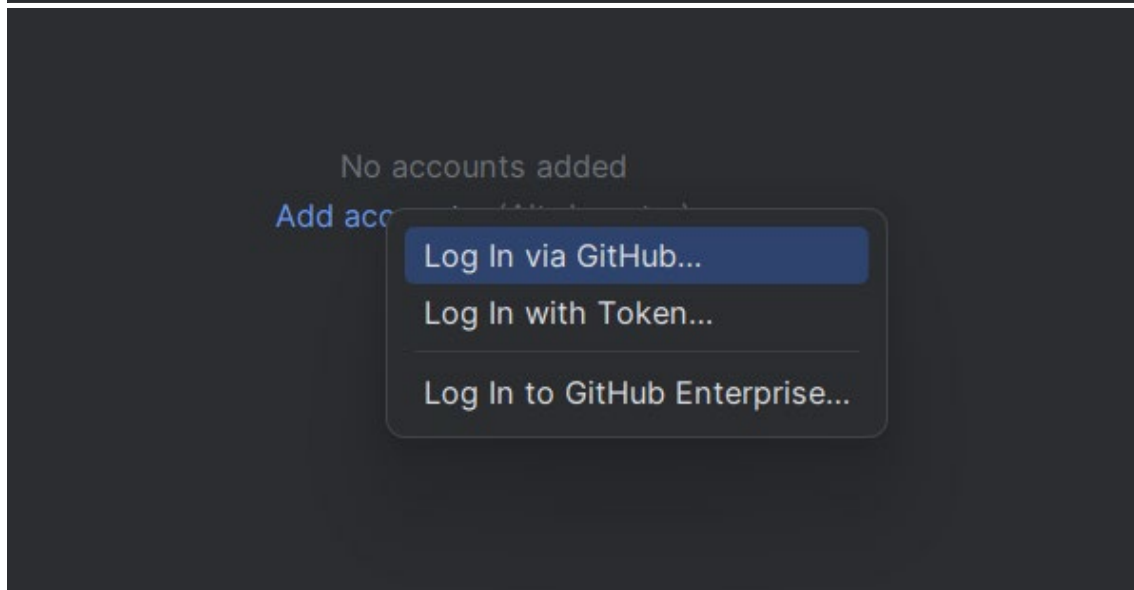
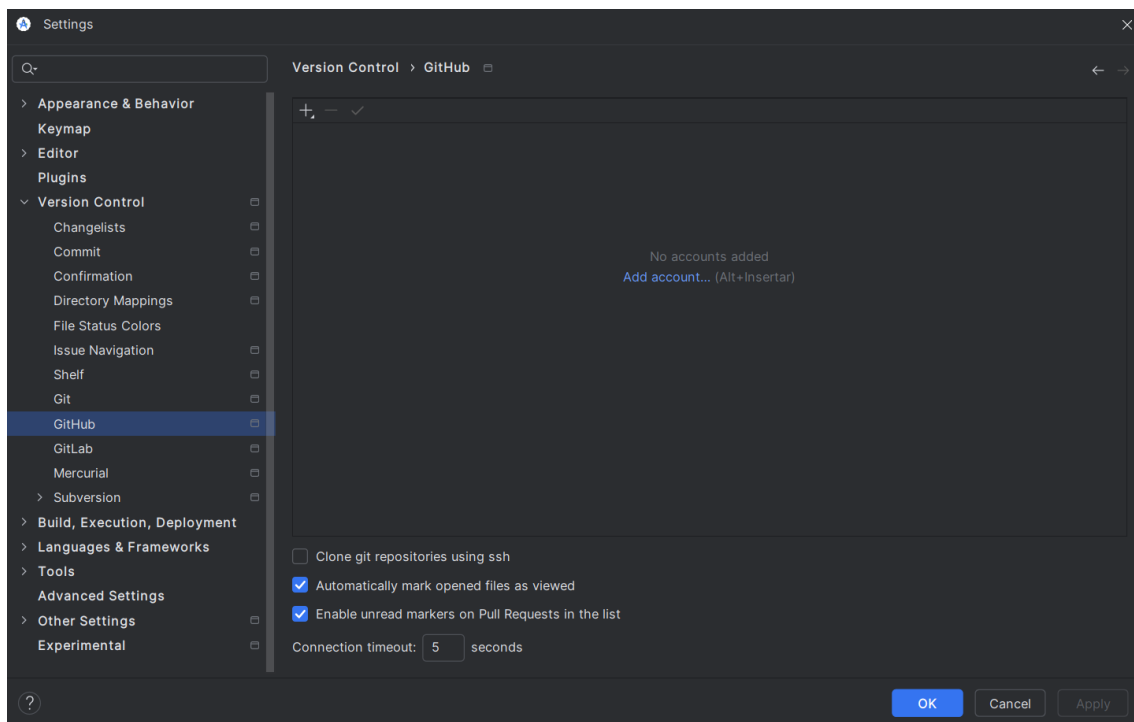
Ahora vamos con el control de versiones de Git:

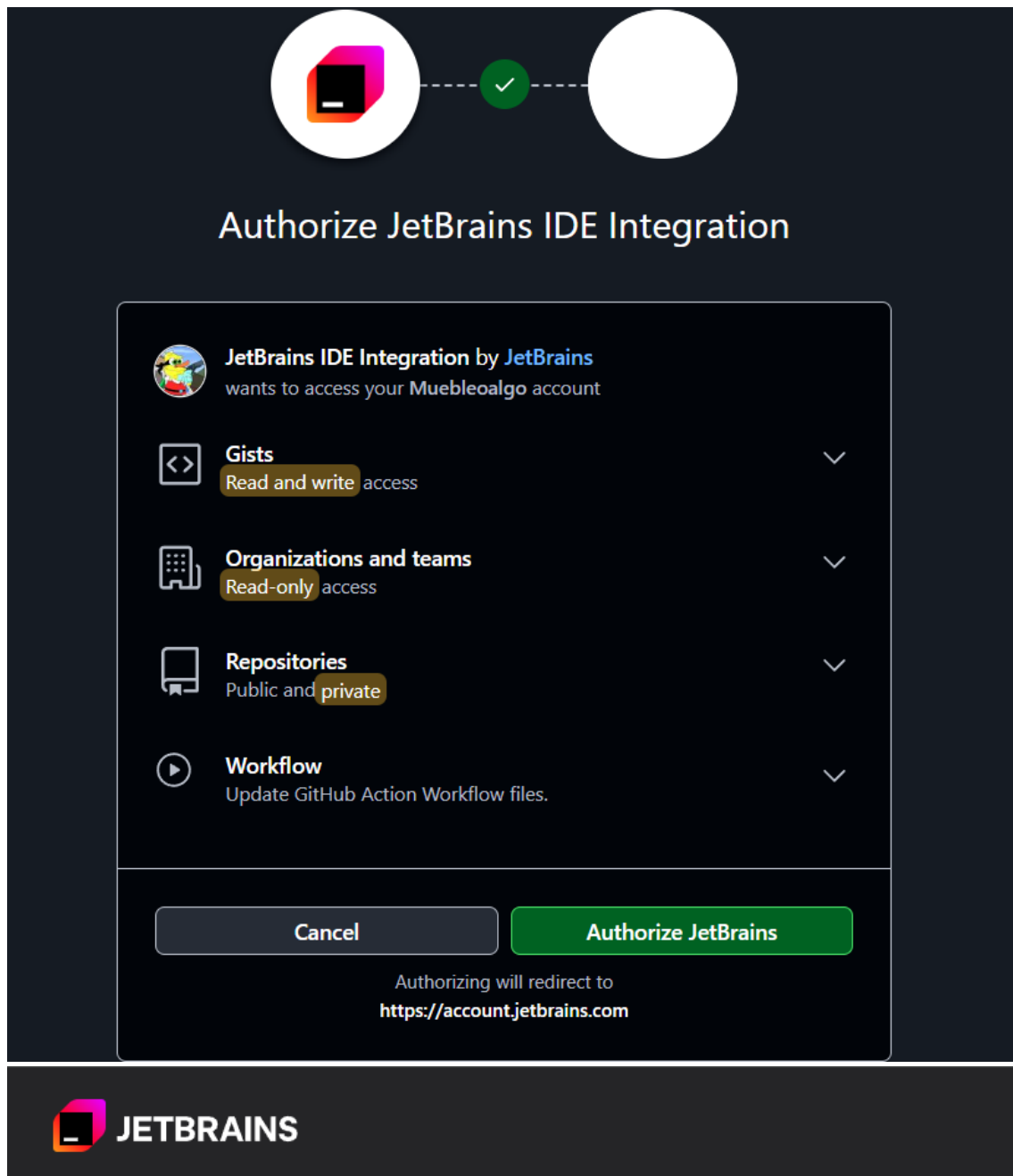


Verificamos la ruta donde tenemos instalado GIT:

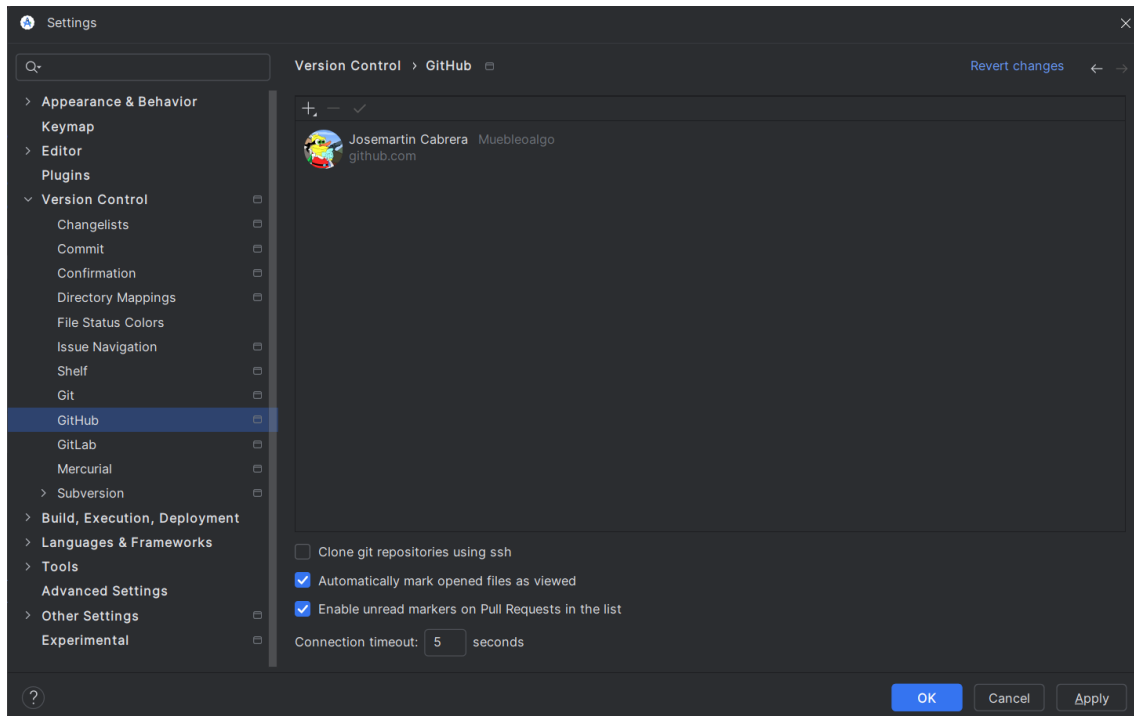


Vamos ahora Github y agregamos nuestra cuenta:





You have been successfully authorized in GitHub. You can close the page.



Ahora abrimos un terminal powershell y nos ubicamos en la carpeta donde queremos clonar el repositorio creado en GitHub, y clonamos el repositorio usando el comando “git clone <link del repositorio>”

```
PS C:\Users\JOSE MARTIN\AndroidStudioProjects> cd "AppCilindro GitHub"
PS C:\Users\JOSE MARTIN\AndroidStudioProjects\AppCilindro GitHub>
PS C:\Users\JOSE MARTIN\AndroidStudioProjects\AppCilindro GitHub> dir
PS C:\Users\JOSE MARTIN\AndroidStudioProjects\AppCilindro GitHub> git clone https://github.com/Muelealga/AppCilindro.git
Cloning into 'AppCilindro'...
remote: Enumerating objects: 3, done.
remote: Counting objects: 100% (3/3), done.
remote: Total 3 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)
Receiving objects: 100% (3/3), done.
PS C:\Users\JOSE MARTIN\AndroidStudioProjects\AppCilindro GitHub> dir

Directorio: C:\Users\JOSE MARTIN\AndroidStudioProjects\AppCilindro GitHub

Mode                LastWriteTime         Length Name
----                -
d-----          20/02/2025   19:32             AppCilindro
```

Ahora usamos el comando “cd” para ubicarnos en la carpeta del repositorio clonado:

```
Terminal Local x + v
PS C:\Users\JOSE MARTIN\AndroidStudioProjects\AppCilindro GitHub> dir

Directorio: C:\Users\JOSE MARTIN\AndroidStudioProjects\AppCilindro GitHub

Mode                LastWriteTime         Length Name
----                -
d-----          23/02/2025   21:27             AppCilindro

PS C:\Users\JOSE MARTIN\AndroidStudioProjects\AppCilindro GitHub> cd "AppCilindro"
```

Realizamos nuestro primer Commit en la rama Main usando el comando:

git add .

git commit -m “Version 1.0”

```
PS C:\Users\JOSE MARTIN\AndroidStudioProjects\AppCilindro GitHub\AppCilindro> git add .
warning: in the working copy of '.gitignore', LF will be replaced by CRLF the next time Git touches it
warning: in the working copy of '.idea/misc.xml', LF will be replaced by CRLF the next time Git touches it
warning: in the working copy of 'app/build.gradle.kts', LF will be replaced by CRLF the next time Git touches it
warning: in the working copy of 'app/proguard-rules.pro', LF will be replaced by CRLF the next time Git touches it

warning: in the working copy of 'gradlew', LF will be replaced by CRLF the next time Git touches it
warning: in the working copy of 'settings.gradle.kts', LF will be replaced by CRLF the next time Git touches it
PS C:\Users\JOSE MARTIN\AndroidStudioProjects\AppCilindro GitHub\AppCilindro> git commit -m "Versión 1.0"
[main 1096bfb] Versión 1.0
 44 files changed, 971 insertions(+)
 create mode 100644 .gitignore
 create mode 100644 .idea/.gitignore
 create mode 100644 .idea/compiler.xml
 create mode 100644 .idea/deploymentTargetSelector.xml
 create mode 100644 .idea/gradle.xml
```

Luego realizamos el push para que los cambios se suban del repositorio local al repositorio remoto en GitHub:

```
PS C:\Users\JOSE MARTIN\AndroidStudioProjects\AppCilindro GitHub\AppCilindro> git push origin main
Enumerating objects: 78, done.
Counting objects: 100% (78/78), done.
Delta compression using up to 8 threads
Compressing objects: 100% (60/60), done.
Writing objects: 100% (77/77), 99.33 KiB | 820.00 KiB/s, done.
Total 77 (delta 2), reused 0 (delta 0), pack-reused 0 (from 0)
remote: Resolving deltas: 100% (2/2), done.
To https://github.com/Muebleoalgo/AppCilindro.git
 05b2bb6..1096bfb  main -> main
PS C:\Users\JOSE MARTIN\AndroidStudioProjects\AppCilindro GitHub\AppCilindro>
```



Revisamos:

The screenshot shows the GitHub interface for a repository named 'AppCilindro' by the user 'Mueblealgo'. The repository is public and has 1 branch and 0 tags. The main branch is selected. The file list shows the following files and their commit history:


File	Commit	Time
.idea	Versión 1.0	6 minutes ago
app	Versión 1.0	6 minutes ago
gradle	Versión 1.0	6 minutes ago
.gitignore	Versión 1.0	6 minutes ago
README.md	Initial commit	3 days ago
build.gradle.kts	Versión 1.0	6 minutes ago
gradle.properties	Versión 1.0	6 minutes ago
gradlew	Versión 1.0	6 minutes ago
gradlew.bat	Versión 1.0	6 minutes ago
settings.gradle.kts	Versión 1.0	6 minutes ago

The README section is visible, showing the title 'AppCilindro' and the subtitle 'Proyecto en AndroidStudio'.

Ahora hacemos lo propio con la “Version 2.0”:

```
PS C:\Users\JOSE MARTIN\AndroidStudioProjects\AppCilindro\GitHub\AppCilindro> git add .
warning: in the working copy of '.idea/misc.xml', LF will be replaced by CRLF the next time Git touches it
warning: in the working copy of 'app/src/main/java/com/example/appcilindro/MainActivity.java', LF will be replaced by CRLF the next time Git touches it
PS C:\Users\JOSE MARTIN\AndroidStudioProjects\AppCilindro\GitHub\AppCilindro> git commit -m "Version 2.0"
[main 7015118] Version 2.0
4 files changed, 41 insertions(+), 3 deletions(-)
create mode 100644 .idea/.name
create mode 100644 app/src/main/java/Models/Cilindro.java
PS C:\Users\JOSE MARTIN\AndroidStudioProjects\AppCilindro\GitHub\AppCilindro> git push origin main
Enumerating objects: 26, done.
Counting objects: 100% (26/26), done.
Delta compression using up to 8 threads
Compressing objects: 100% (10/10), done.
Writing objects: 100% (15/15), 1.33 KiB | 45.00 KiB/s, done.
Total 15 (delta 5), reused 0 (delta 0), pack-reused 0 (from 0)
remote: Resolving deltas: 100% (5/5), completed with 5 local objects.
To https://github.com/Mueblealgo/AppCilindro.git
1096bfb..7015118 main -> main
PS C:\Users\JOSE MARTIN\AndroidStudioProjects\AppCilindro\GitHub\AppCilindro>
```

Revisamos, ahora ya contamos con las 2 versiones del programa:

 AppCilindro Public

Pin Unwatch 1


main

1 Branch

0 Tags











Add file

<> Code

 Mueblealgo Version 2.0

7015118 · 2 minutes ago

3 Commits

 .idea	Version 2.0	2 minutes ago
 app	Version 2.0	2 minutes ago
 gradle	Versión 1.0	12 minutes ago
 .gitignore	Versión 1.0	12 minutes ago
 README.md	Initial commit	3 days ago
 build.gradle.kts	Versión 1.0	12 minutes ago
 gradle.properties	Versión 1.0	12 minutes ago
 gradlew	Versión 1.0	12 minutes ago
 gradlew.bat	Versión 1.0	12 minutes ago
 settings.gradle.kts	Versión 1.0	12 minutes ago