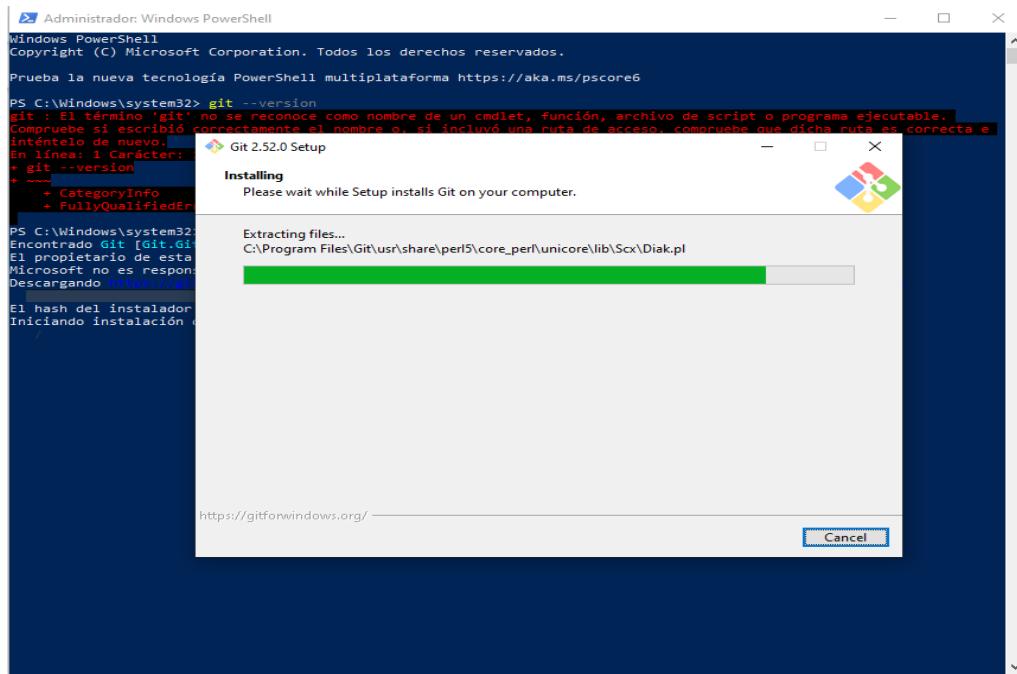


Rafael Ortolá 1 CESA

Puesta en producción

Práctica - Uso de Git y GitHub

Captura sobre la instalación de git



Captura de la configuración

```
PS C:\Windows\system32> git --version
git version 2.52.0.windows.1
PS C:\Windows\system32> git config --global user.name "Rafael Ortolá"
PS C:\Windows\system32> git config --global user.email "rafortmat@alu.edu.gva.es"
PS C:\Windows\system32> git config --list
diff.astextplain.textconv=astextplain
filter.lfs.clean=git-lfs clean -- %f
filter.lfs.smudge=git-lfs smudge -- %f
filter.lfs.process=git-lfs filter-process
filter.lfs.required=true
http.sslbackend=schannel
core.autocrlf=true
core.fscache=true
core.symlinks=false
pull.rebase=false
credential.helper=manager
credential=https://dev.azure.com.usehttppath=true
init.defaultbranch=master
user.name=Rafael Ortolá
user.email=rafortmat@alu.edu.gva.es
PS C:\Windows\system32>
```

Captura convirtiendo el directorio en un repositorio

```
PS C:\Windows\system32> mkdir S1R1

Directorio: C:\Windows\system32

Mode           LastWriteTime     Length Name
----           -----          ---- 
d----  30/11/2025    11:41            S1R1

PS C:\Windows\system32> cd S1R1
PS C:\Windows\System32\S1R1> git init
Initialized empty Git repository in C:/Windows/System32/S1R1/.git/
PS C:\Windows\System32\S1R1>
```

Captura haciendo el primer commit

```
PS C:\Users\Rafa\Documents\S1R1> git commit -m "Añadidos primeros 3 libros"
[master (root-commit) e35146a] Añadidos primeros 3 libros
 1 file changed, 3 insertions(+)
  create mode 100644 libros.txt
PS C:\Users\Rafa\Documents\S1R1>
```

Captura del segundo commit

```
PS C:\Users\Rafa\Documents\S1R1> git add libros.txt
PS C:\Users\Rafa\Documents\S1R1> git commit -m "Añadidos 2 libros más"
[master f978b1a] Añadidos 2 libros más
 1 file changed, 3 insertions(+), 1 deletion(-)
PS C:\Users\Rafa\Documents\S1R1>
```

Captura creando el archivo películas

```
PS C:\Users\Rafa\Documents\S1R1> notepad peliculas.txt
PS C:\Users\Rafa\Documents\S1R1> git status
On branch master
Untracked files:
  (use "git add <file>..." to include in what will be committed)
    peliculas.txt

nothing added to commit but untracked files present (use "git add" to track)
PS C:\Users\Rafa\Documents\S1R1>
```

Captura creando el archivo comidas y haciendo el tercer commit junto el archivo de películas

```
PS C:\Users\Rafa\Documents\S1R1> notepad comidas.txt
PS C:\Users\Rafa\Documents\S1R1> git add peliculas.txt comidas.txt
PS C:\Users\Rafa\Documents\S1R1> git commit -m "Añadidos archivos de películas y comidas"
[master 4a864be] Añadidos archivos de películas y comidas
 2 files changed, 6 insertions(+)
  create mode 100644 comidas.txt
  create mode 100644 peliculas.txt
PS C:\Users\Rafa\Documents\S1R1>
```

Captura borrando el archivo comidas y modificando el archivo de películas

```
PS C:\Users\Rafa\Documents\S1R1> Remove-Item comidas.txt
PS C:\Users\Rafa\Documents\S1R1> notepad peliculas.txt
PS C:\Users\Rafa\Documents\S1R1> git status
On branch master
Changes not staged for commit:
  (use "git add/rm <file>..." to update what will be committed)
  (use "git restore <file>..." to discard changes in working directory)
    deleted:   comidas.txt
    modified:  peliculas.txt

no changes added to commit (use "git add" and/or "git commit -a")
PS C:\Users\Rafa\Documents\S1R1>
```

Captura añadiendo todos los cambios que hemos hecho

```
PS C:\Users\Rafa\Documents\S1R1> git add .
PS C:\Users\Rafa\Documents\S1R1> git status
On branch master
Changes to be committed:
  (use "git restore --staged <file>..." to unstage)
    deleted:   comidas.txt
    modified:  peliculas.txt

PS C:\Users\Rafa\Documents\S1R1>
```

Captura guardando las versiones finales

```
PS C:\Users\Rafa\Documents\S1R1> git commit -m "Borrado comidas y actualizadas peliculas"
[master 63cfc28] Borrado comidas y actualizadas peliculas
 2 files changed, 3 insertions(+), 4 deletions(-)
 delete mode 100644 comidas.txt
PS C:\Users\Rafa\Documents\S1R1>
```

Captura creando archivos que no queremos incluir en el repositorio y git no los detecta

```
PS C:\Users\Rafa\Documents\S1R1> notepad datos.bak
PS C:\Users\Rafa\Documents\S1R1> mkdir output

Directorio: C:\Users\Rafa\Documents\S1R1

Mode          LastWriteTime      Length Name
----          -----           ----- 
d-----       30/11/2025     11:51           output

PS C:\Users\Rafa\Documents\S1R1> notepad output/salida.txt
PS C:\Users\Rafa\Documents\S1R1> git status
On branch master
Untracked files:
  (use "git add <file>..." to include in what will be committed)
    datos.bak
    output/

nothing added to commit but untracked files present (use "git add" to track)
PS C:\Users\Rafa\Documents\S1R1>
```

Captura donde no se ven los archivos anteriores dentro del archivo .gitignore hemos puesto lo siguiente: *.bak output/

```
PS C:\Users\Rafa\Documents\S1R1> notepad .gitignore
PS C:\Users\Rafa\Documents\S1R1> git status
On branch master
Untracked files:
  (use "git add <file>..." to include in what will be committed)
    .gitignore

nothing added to commit but untracked files present (use "git add" to track)
PS C:\Users\Rafa\Documents\S1R1>
```

Captura con el historial de todo lo que he hecho

```
PS C:\Users\Rafa\Documents\S1R1> git log
commit ddf1bf3e0e4c96d88bdacecac9d16da479de2daa (HEAD -> master)
Author: Rafael Ortolá <rafortmat@alu.edu.gva.es>
Date:   Sun Nov 30 11:53:26 2025 +0100

  Añadido fichero gitignore

commit 63cfcc2800d79fb54236bc64ae9dbc618c3832e0e
Author: Rafael Ortolá <rafortmat@alu.edu.gva.es>
Date:   Sun Nov 30 11:50:10 2025 +0100

  Borrado comidas y actualizadas peliculas

commit 4a864bea4ad1b57695ad85ec3a3ef337f09c48dc
Author: Rafael Ortolá <rafortmat@alu.edu.gva.es>
Date:   Sun Nov 30 11:47:42 2025 +0100

  Añadidos archivos de peliculas y comidas

commit f978b1a51580550d942324b0fbcd16567324588
Author: Rafael Ortolá <rafortmat@alu.edu.gva.es>
Date:   Sun Nov 30 11:45:13 2025 +0100

  Añadidos 2 libros más

commit e35146a7dde274bbc1041b4b61c7e7e085536b45
Author: Rafael Ortolá <rafortmat@alu.edu.gva.es>
Date:   Sun Nov 30 11:44:15 2025 +0100

  Añadidos primeros 3 libros
PS C:\Users\Rafa\Documents\S1R1>
```

Captura creando un nuevo repositorio

```
PS C:\Users\Rafa\Documents\S1R1> cd ..
PS C:\Users\Rafa\Documents> mkdir S2R1

  Directorio: C:\Users\Rafa\Documents

Mode          LastWriteTime        Length Name
----          -----          ----
d----          30/11/2025       11:59      S2R1

PS C:\Users\Rafa\Documents> cd S2R1
PS C:\Users\Rafa\Documents\S2R1> git init
Initialized empty Git repository in C:/Users/Rafa/Documents/S2R1/.git/
PS C:\Users\Rafa\Documents\S2R1>
```

Captura creando y cambiando de rama

```
PS C:\Users\Rafa\Documents\S2R1> notepad actores.txt
PS C:\Users\Rafa\Documents\S2R1> git add actores.txt
PS C:\Users\Rafa\Documents\S2R1> git commit -m "Añadidos 3 actores iniciales"
[master (root-commit) 9d5fe37] Añadidos 3 actores iniciales
 1 file changed, 3 insertions(+)
 create mode 100644 actores.txt
PS C:\Users\Rafa\Documents\S2R1> git branch test
PS C:\Users\Rafa\Documents\S2R1> git checkout test
Switched to branch 'test'
PS C:\Users\Rafa\Documents\S2R1>
```

Captura visualizando las ramas

```
PS C:\Users\Rafa\Documents\S2R1> git log --graph --all
* commit 20888b7934aae15a10eff06adb284e05841918a2 (HEAD -> test)
| Author: Rafael Ortolá <rafortmat@alu.edu.gva.es>
| Date:   Sun Nov 30 12:01:42 2025 +0100
|
|       Añadidas actrices en rama test
|
* commit 9d5fe37f181491a4cb0650ba9f0ab342374a7b8b (master)
| Author: Rafael Ortolá <rafortmat@alu.edu.gva.es>
| Date:   Sun Nov 30 12:00:22 2025 +0100
|
|       Añadidos 3 actores iniciales
PS C:\Users\Rafa\Documents\S2R1>
```

Captura fusionando la rama test dentro de master

```
PS C:\Users\Rafa\Documents\S2R1> git checkout master
Switched to branch 'master'
PS C:\Users\Rafa\Documents\S2R1> git merge test
Updating 9d5fe37..20888b7
Fast-forward
  actrices.txt | 3 +++
  1 file changed, 3 insertions(+)
  create mode 100644 actrices.txt
PS C:\Users\Rafa\Documents\S2R1>
```

Captura con el log donde dividimos dos ramas distintas master y test2

```
PS C:\Users\Rafa\Documents\S2R1> git log --graph --all
* commit 999ceb34de51724dc34c2966094becacb3076bbb (HEAD -> test2)
| Author: Rafael Ortolá <rafortmat@alu.edu.gva.es>
| Date:   Sun Nov 30 12:03:50 2025 +0100
|
|       Añadida Scarlett en test2
|
* commit e8a50ea8cc8f3480f7be96eeeef4d47193d8f5aab (master)
| / Author: Rafael Ortolá <rafortmat@alu.edu.gva.es>
| Date:   Sun Nov 30 12:03:27 2025 +0100
|
|       Añadida Penélope en master
|
* commit 20888b7934aae15a10eff06adb284e05841918a2 (test)
| / Author: Rafael Ortolá <rafortmat@alu.edu.gva.es>
| Date:   Sun Nov 30 12:01:42 2025 +0100
|
|       Añadidas actrices en rama test
|
* commit 9d5fe37f181491a4cb0650ba9f0ab342374a7b8b
| / Author: Rafael Ortolá <rafortmat@alu.edu.gva.es>
| Date:   Sun Nov 30 12:00:22 2025 +0100
|
|       Añadidos 3 actores iniciales
PS C:\Users\Rafa\Documents\S2R1>
```

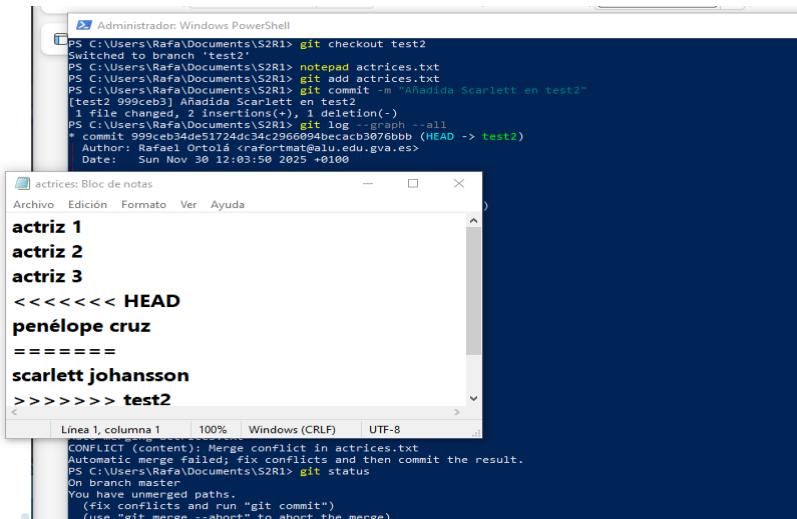
Captura provocando un conflicto

```
PS C:\Users\Rafa\Documents\S2R1> git checkout master
Switched to branch 'master'
PS C:\Users\Rafa\Documents\S2R1> git merge test2
Auto-merging actrices.txt
CONFLICT (content): Merge conflict in actrices.txt
Automatic merge failed; fix conflicts and then commit the result.
PS C:\Users\Rafa\Documents\S2R1> git status
On branch master
You have unmerged paths.
  (fix conflicts and run "git commit")
  (use "git merge --abort" to abort the merge)

Unmerged paths:
  (use "git add <file>..." to mark resolution)
    both modified:  actrices.txt

no changes added to commit (use "git add" and/or "git commit -a")
PS C:\Users\Rafa\Documents\S2R1>
```

Captura viendo el conflicto



Captura una vez que lo hemos borrado y las dos líneas se han vuelto a unir

```
PS C:\Users\Rafa\Documents\S2R1> git log --graph --all
* commit 87a3e1f2880e79faccfb84d8b89478d3c113b954 (HEAD -> master)
  Merge: e8a50ea 999ceb3
  Author: Rafael Ortolá <rafortmat@alu.edu.gva.es>
  Date:   Sun Nov 30 15:04:50 2025 +0100

    Conflicto resuelto: incluidas ambas actrices

* commit 999ceb34de51724dc34c2966094becacb3076bbb (test2)
  Author: Rafael Ortolá <rafortmat@alu.edu.gva.es>
  Date:   Sun Nov 30 12:03:50 2025 +0100

    Añadida Scarlett en test2

* commit e8a50ea8cc8f3480f7be96eeef4d47193d8f5aab
  Author: Rafael Ortolá <rafortmat@alu.edu.gva.es>
  Date:   Sun Nov 30 12:03:27 2025 +0100

    Añadida Penélope en master

* commit 20888b7934aae15a10eff06adb284e05841918a2 (test)
  Author: Rafael Ortolá <rafortmat@alu.edu.gva.es>
  Date:   Sun Nov 30 12:01:42 2025 +0100

    Añadidas actrices en rama test

* commit 9d5fe37f181491a4cb0650ba9f0ab342374a7b8b
  Author: Rafael Ortolá <rafortmat@alu.edu.gva.es>
  Date:   Sun Nov 30 12:00:22 2025 +0100

    Añadidos 3 actores iniciales
PS C:\Users\Rafa\Documents\S2R1>
```

Captura creando el servidor y clonando el repositorio

```
PS C:\Users\Rafa\Documents> cd S2R2-remoto
PS C:\Users\Rafa\Documents\S2R2-remoto> git init --bare
Initialized empty Git repository in C:/Users/Rafa/Documents/S2R2-remoto/
PS C:\Users\Rafa\Documents\S2R2-remoto> cd ..
PS C:\Users\Rafa\Documents> git clone S2R2-remoto S2R2
Cloning into 'S2R2'...
warning: You appear to have cloned an empty repository.
done.
PS C:\Users\Rafa\Documents>
```

Captura subiendo los cambios al servidor

```
PS C:\Users\Rafa\Documents\S2R2> git commit -m "Añadidos primeros directores"
[master (root-commit) b3bd7e0] Añadidos primeros directores
 1 file changed, 3 insertions(+)
   create mode 100644 directores.txt
PS C:\Users\Rafa\Documents\S2R2> git push origin master
Enumerating objects: 3, done.
Counting objects: 100% (3/3), done.
Delta compression using up to 16 threads
Compressing objects: 100% (2/2), done.
Writing objects: 100% (3/3), 268 bytes | 268.00 KiB/s, done.
Total 3 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)
To C:/Users/Rafa/Documents/S2R2-remoto
 * [new branch]      master -> master
PS C:\Users\Rafa\Documents\S2R2>
```

Captura subiendo esta rama nueva al repositorio remoto

```
PS C:\Users\Rafa\Documents\S2R2> git branch version1
PS C:\Users\Rafa\Documents\S2R2> git checkout version1
Switched to branch 'version1'
PS C:\Users\Rafa\Documents\S2R2> notepad directores.txt
PS C:\Users\Rafa\Documents\S2R2> git add directores.txt
PS C:\Users\Rafa\Documents\S2R2> git commit -m "Añadidos 2 directores en version1"
[version1 7379147] Añadidos 2 directores en version1
 1 file changed, 3 insertions(+), 1 deletion(-)
PS C:\Users\Rafa\Documents\S2R2> git push -u origin version1
Enumerating objects: 5, done.
Counting objects: 100% (5/5), done.
Delta compression using up to 16 threads
Compressing objects: 100% (2/2), done.
Writing objects: 100% (3/3), 316 bytes | 316.00 KiB/s, done.
Total 3 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)
To C:/Users/Rafa/Documents/S2R2-remoto
 * [new branch]      version1 -> version1
branch 'version1' set up to track 'origin/version1'.
PS C:\Users\Rafa\Documents\S2R2>
```

Captura cambiando la rama remota para que aparezcan todos los directores

```
PS C:\Users\Rafa\Documents> git clone S2R2-remoto S2R3
Cloning into 'S2R3'...
done.
PS C:\Users\Rafa\Documents> cd S2R3
PS C:\Users\Rafa\Documents\S2R3> type directores.txt
director de cine 1
director de cine 2
director de cine 3
PS C:\Users\Rafa\Documents\S2R3> git status
On branch master
Your branch is up to date with 'origin/master'.

nothing to commit, working tree clean
PS C:\Users\Rafa\Documents\S2R3> git checkout version1
branch 'version1' set up to track 'origin/version1'.
Switched to a new branch 'version1'
PS C:\Users\Rafa\Documents\S2R3> type directores.txt
director de cine 1
director de cine 2
director de cine 3
director de cine nuevo 4
director de cine nuevo 5
PS C:\Users\Rafa\Documents\S2R3>
```

Captura fusionando y subiendo desde S2R3

```
PS C:\Users\Rafa\Documents\S2R3> git checkout master
Switched to branch 'master'
Your branch is up to date with 'origin/master'.
PS C:\Users\Rafa\Documents\S2R3> git merge version1
Updating b3bd7e0..7379147
Fast-forward
  directores.txt | 4 +---
  1 file changed, 3 insertions(+), 1 deletion(-)
PS C:\Users\Rafa\Documents\S2R3> git push origin master
Total 0 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)
To C:/Users/Rafa/Documents/S2R2-remoto
  b3bd7e0..7379147  master -> master
PS C:\Users\Rafa\Documents\S2R3>
```

Captura que indica cambios en master

```
b3bd7e0..7379147  master -> master
PS C:\Users\Rafa\Documents\S2R3> cd ..
PS C:\Users\Rafa\Documents> cd S2R2
PS C:\Users\Rafa\Documents\S2R2> git fetch origin
From C:/Users/Rafa/Documents/S2R2-remoto
  b3bd7e0..7379147  master      -> origin/master
PS C:\Users\Rafa\Documents\S2R2>
```

Captura actualizando la rama local

```
PS C:\Users\Rafa\Documents\S2R2> git pull origin master
From C:/Users/Rafa/Documents/S2R2-remoto
 * branch            master      -> FETCH_HEAD
Already up to date.
PS C:\Users\Rafa\Documents\S2R2>
```

Captura confirmando que tenemos los 5 directores

```
PS C:\Users\Rafa\Documents\S2R2> type directores.txt
director de cine 1
director de cine 2
director de cine 3
director de cine nuevo 4
director de cine nuevo 5
PS C:\Users\Rafa\Documents\S2R2>
```

Captura resolviendo los issues

```
PS C:\Users\Rafa\Documents\sesion3-practica> git add libros.txt
PS C:\Users\Rafa\Documents\sesion3-practica> git commit -m "Añadidos libros Closes #1"
On branch master
Your branch is up to date with 'origin/master'.

nothing to commit, working tree clean
PS C:\Users\Rafa\Documents\sesion3-practica> git add peliculas.txt
PS C:\Users\Rafa\Documents\sesion3-practica> git commit -m "Añadidas peliculas Closes #2"
On branch master
Your branch is up to date with 'origin/master'.

nothing to commit, working tree clean
PS C:\Users\Rafa\Documents\sesion3-practica> git add discos.txt
PS C:\Users\Rafa\Documents\sesion3-practica> git commit -m "Añadidos discos Closes #3"
On branch master
Your branch is up to date with 'origin/master'.

nothing to commit, working tree clean
PS C:\Users\Rafa\Documents\sesion3-practica> git push
Everything up-to-date
PS C:\Users\Rafa\Documents\sesion3-practica>
```