Intensificación Técnica

Nombre: Pablo

Apellidos: Caballero María

UVUS:pabcabmar3

Enlace al repositorio de GitHub:
https://github.com/Pablo-Caballero-Maria/EGC-2425

Ejercicio Git

Apartado 1

Ejercicio Git

Apartado 2

Ejercicio Git

Apartado 2

```
Switch to unix_socket authentication [Y/n]
Enabled successfully!
Reloading privilege tables..
 ... Success!


You already have your root account protected, so you can safely answer 'n'.

Change the root password? [Y/n]
New password:
Re-enter new password:
Password updated successfully!
Reloading privilege tables..
 ... Success!


By default, a MariaDB installation has an anonymous user, allowing anyone
to log into MariaDB without having to have a user account created for
them.  This is intended only for testing, and to make the installation
go a bit smoother.  You should remove them before moving into a
production environment.

Remove anonymous users? [Y/n]
 ... Success!

Normally, root should only be allowed to connect from 'localhost'.  This
ensures that someone cannot guess at the root password from the network.

Disallow root login remotely? [Y/n]
 ... Success!

By default, MariaDB comes with a database named 'test' that anyone can
access.  This is also intended only for testing, and should be removed
before moving into a production environment.

Remove test database and access to it? [Y/n]
 - Dropping test database...
 ... Success!
 - Removing privileges on test database...
 ... Success!

Reloading the privilege tables will ensure that all changes made so far
will take effect immediately.

Reload privilege tables now? [Y/n]
 ... Success!

Cleaning up...

All done!  If you've completed all of the above steps, your MariaDB
installation should now be secure.

Thanks for using MariaDB!
```

Ejercicio Git

Apartado 2


```
practica@pc-12-65:~/EGC-2425$ sudo mysql -u root -p
mysql: Deprecated program name. It will be removed in a future release, use '/usr/bin/mariadb' instead
Enter password:
Welcome to the MariaDB monitor.  Commands end with ; or \g.
Your MariaDB connection id is 41
Server version: 11.4.2-MariaDB-ubu2204 mariadb.org binary distribution

Copyright (c) 2000, 2018, Oracle, MariaDB Corporation Ab and others.

Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

MariaDB [(none)]> CREATE DATABASE uvlhubdb;
ERROR 1007 (HY000): Can't create database 'uvlhubdb'; database exists
MariaDB [(none)]> CREATE DATABASE uvlhubdb_test;
ERROR 1007 (HY000): Can't create database 'uvlhubdb_test'; database exists
MariaDB [(none)]> CREATE DATABASE uvlhubdb;
ERROR 1007 (HY000): Can't create database 'uvlhubdb'; database exists
MariaDB [(none)]> CREATE DATABASE uvlhubdb_test;
ERROR 1007 (HY000): Can't create database 'uvlhubdb_test'; database exists
MariaDB [(none)]> CREATE USER 'uvlhubdb_user'@'localhost' IDENTIFIED BY 'uvlhubdb_password';
ERROR 1396 (HY000): Operation CREATE USER failed for 'uvlhubdb_user'@'localhost'
MariaDB [(none)]> GRANT ALL PRIVILEGES ON uvlhubdb.* TO 'uvlhubdb_user'@'localhost';
Query OK, 0 rows affected (0,001 sec)

MariaDB [(none)]> GRANT ALL PRIVILEGES ON uvlhubdb_test.* TO 'uvlhubdb_user'@'localhost';
Query OK, 0 rows affected (0,001 sec)

MariaDB [(none)]> FLUSH PRIVILEGES;
Query OK, 0 rows affected (0,000 sec)

MariaDB [(none)]> EXIT;
Bye
```

Ejercicio Git

Apartado 2

Ejercicio Git

Apartado 3

```
(.venv) practica@pc-12-65:~/EGC-2425$ git checkout feature/init-bug
rama 'feature/init-bug' configurada para rastrear 'origin/feature/init-bug'.
Cambiado a nueva rama 'feature/init-bug'
(.venv) practica@pc-12-65:~/EGC-2425$ git branch -a
* feature/init-bug
  main
  remotes/origin/HEAD -> origin/main
  remotes/origin/chore/docker
  remotes/origin/chore/vagrant
  remotes/origin/config/ci
  remotes/origin/feature/init-bug
  remotes/origin/fix/bug-atomic
  remotes/origin/hotfix/bug-critical
  remotes/origin/main
  remotes/origin/test/exam
(.venv) practica@pc-12-65:~/EGC-2425$ flask run --host=0.0.0.0 --reload --debug
Traceback (most recent call last):
  File "/home/practica/EGC-2425/.venv/bin/flask", line 8, in <module>
    sys.exit(main())
             ^^^^^^
  File "/home/practica/EGC-2425/.venv/lib/python3.12/site-packages/flask/cli.py", line 1105, in main
    cli.main()
  File "/home/practica/EGC-2425/.venv/lib/python3.12/site-packages/click/core.py", line 1078, in main
    rv = self.invoke(ctx)
         ^^^^^^^^^^^^^^^^
  File "/home/practica/EGC-2425/.venv/lib/python3.12/site-packages/click/core.py", line 1688, in invoke
    return _process_result(sub_ctx.command.invoke(sub_ctx))
                           ^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^
  File "/home/practica/EGC-2425/.venv/lib/python3.12/site-packages/click/core.py", line 1434, in invoke
    return ctx.invoke(self.callback, **ctx.params)
           ^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^
  File "/home/practica/EGC-2425/.venv/lib/python3.12/site-packages/click/core.py", line 783, in invoke
    return __callback(*args, **kwargs)
           ^^^^^^^^^^^^^^^^^^^^^^^^^^^
  File "/home/practica/EGC-2425/.venv/lib/python3.12/site-packages/click/decorators.py", line 92, in new_func
    return ctx.invoke(f, obj, *args, **kwargs)
           ^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^
  File "/home/practica/EGC-2425/.venv/lib/python3.12/site-packages/click/core.py", line 783, in invoke
    return __callback(*args, **kwargs)
           ^^^^^^^^^^^^^^^^^^^^^^^^^^^
  File "/home/practica/EGC-2425/.venv/lib/python3.12/site-packages/flask/cli.py", line 953, in run_command
    raise e from None
  File "/home/practica/EGC-2425/.venv/lib/python3.12/site-packages/flask/cli.py", line 937, in run_command
    app: WSGIApplication = info.load_app()
                           ^^^^^^^^^^^^^^^
  File "/home/practica/EGC-2425/.venv/lib/python3.12/site-packages/flask/cli.py", line 339, in load_app
    app = locate_app(import_name, None, raise_if_not_found=False)
          ^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^
  File "/home/practica/EGC-2425/.venv/lib/python3.12/site-packages/flask/cli.py", line 245, in locate_app
    __import__(module_name)
  File "/home/practica/EGC-2425/app/__init__.py", line 70, in <module>
    app = create_app()
          ^^^^^^^^^^^^
NameError: name 'create_app' is not defined
```

Ejercicio Git
Apartado 4

Bug en create_app #1

Edit   New issue

⊙ Open   **Pablo-Caballero-Maria** opened this issue now · 0 comments

---

Pablo-Caballero-Maria commented now   Owner · · ·

Al lanzar la aplicación mediante `flask run`, aparece el siguiente error:

> NameError: name 'create_app' is not defined

☺

🏷 **Pablo-Caballero-Maria** added bug High priority labels now

👤 **Pablo-Caballero-Maria** self-assigned this now

Add a comment

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Add your comment here...

Ⓜ Markdown is supported   🖼 Paste, drop, or click to add files

⊘ Close issue ▾   Comment

ⓘ Remember, contributions to this repository should follow our GitHub Community Guidelines.

Assignees   ⚙

🏞 Pablo-Caballero-Maria

Labels   ⚙

bug High priority

Projects   ⚙

None yet

Milestone   ⚙

No milestone

Development   ⚙

🖧 Open in Workspace

Create a branch for this issue or link a pull request.

Notifications   Customize

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You're receiving notifications because you were assigned.

1 participant

🏞

🔒 **Lock conversation**

Ejercicio Git

Apartado 5


```
(.venv) practica@pc-12-65:~/EGC-2425$ git checkout -b fix/app-init
Cambiado a nueva rama 'fix/app-init'
(.venv) practica@pc-12-65:~/EGC-2425$ git branch
  feature/init-bug
* fix/app-init
  main
(.venv) practica@pc-12-65:~/EGC-2425$ ls
app  app.log  core  docker  migrations  README.md  requirements.txt  rosemary  rosemary.egg-info  scripts  setup.py  uploads  vagrant
(.venv) practica@pc-12-65:~/EGC-2425$ vim app/__
__init__.py  __pycache__/
(.venv) practica@pc-12-65:~/EGC-2425$ vim app/__init__.py
(.venv) practica@pc-12-65:~/EGC-2425$ flask run --host=0.0.0.0 --reload --debug
 * Debug mode: on
WARNING: This is a development server. Do not use it in a production deployment. Use a production WSGI server instead.
 * Running on all addresses (0.0.0.0)
 * Running on http://127.0.0.1:5000
 * Running on http://10.1.12.65:5000
Press CTRL+C to quit
 * Restarting with stat
 * Debugger is active!
 * Debugger PIN: 104-144-412
^C(.venv) practica@pc-12-65:~/EGC-2425$ git status
En la rama fix/app-init
Cambios no rastreados para el commit:
  (usa "git add <archivo>..." para actualizar lo que será confirmado)
  (usa "git restore <archivo>..." para descartar los cambios en el directorio de trabajo)
        modificados:     app/__init__.py

Archivos sin seguimiento:
  (usa "git add <archivo>..." para incluirlo a lo que será confirmado)
        .venv/

sin cambios agregados al commit (usa "git add" y/o "git commit -a")
(.venv) practica@pc-12-65:~/EGC-2425$ git add app/*
Las siguientes rutas son ignoradas por uno de tus archivos .gitignore:
app/__pycache__
hint: Use -f if you really want to add them.
hint: Disable this message with "git config advice.addIgnoredFile false"
(.venv) practica@pc-12-65:~/EGC-2425$ git status
En la rama fix/app-init
Cambios a ser confirmados:
  (usa "git restore --staged <archivo>..." para sacar del área de stage)
        modificados:     app/__init__.py

Archivos sin seguimiento:
  (usa "git add <archivo>..." para incluirlo a lo que será confirmado)
        .venv/

(.venv) practica@pc-12-65:~/EGC-2425$ git commit -m "fix: uncomment create_app Closes #1"
[fix/app-init c560215] fix: uncomment create_app Closes #1
 1 file changed, 2 deletions(-)
```

Ejercicio Git

Apartado 5

```
(.venv) practica@pc-12-65:~/EGC-2425$ git push --set-upstream origin fix/app-init
Enumerando objetos: 7, listo.
Contando objetos: 100% (7/7), listo.
Compresión delta usando hasta 16 hilos
Comprimiendo objetos: 100% (4/4), listo.
Escribiendo objetos: 100% (4/4), 489 bytes | 489.00 KiB/s, listo.
Total 4 (delta 2), reused 0 (delta 0), pack-reused 0 (from 0)
remote: Resolving deltas: 100% (2/2), completed with 2 local objects.
remote:
remote: Create a pull request for 'fix/app-init' on GitHub by visiting:
remote:      https://github.com/Pablo-Caballero-Maria/EGC-2425/pull/new/fix/app-init
remote:
To github.com:Pablo-Caballero-Maria/EGC-2425.git
 * [new branch]      fix/app-init -> fix/app-init
rama 'fix/app-init' configurada para rastrear 'origin/fix/app-init'.
```

Ejercicio Git
Apartado 6

Ejercicio Git

Apartado 7

```
(.venv) practica@pc-12-65:~/EGC-2425$ git checkout -b feature/conflicto
Cambiado a nueva rama 'feature/conflicto'
(.venv) practica@pc-12-65:~/EGC-2425$ vim app/__init__.py
(.venv) practica@pc-12-65:~/EGC-2425$ git add app/*
Las siguientes rutas son ignoradas por uno de tus archivos .gitignore:
app/__pycache__
hint: Use -f if you really want to add them.
hint: Disable this message with "git config advice.addIgnoredFile false"
(.venv) practica@pc-12-65:~/EGC-2425$ git commit -m "feature: change database connection"
[feature/conflicto 691529c] feature: change database connection
 1 file changed, 1 insertion(+), 1 deletion(-)
```

```
(.venv) practica@pc-12-65:~/EGC-2425$      git push --set-upstream origin feature/conflicto
Enumerando objetos: 7, listo.
Contando objetos: 100% (7/7), listo.
Compresión delta usando hasta 16 hilos
Comprimiendo objetos: 100% (4/4), listo.
Escribiendo objetos: 100% (4/4), 506 bytes | 506.00 KiB/s, listo.
Total 4 (delta 2), reused 0 (delta 0), pack-reused 0 (from 0)
remote: Resolving deltas: 100% (2/2), completed with 2 local objects.
remote:
remote: Create a pull request for 'feature/conflicto' on GitHub by visiting:
remote:      https://github.com/Pablo-Caballero-Maria/EGC-2425/pull/new/feature/conflicto
remote:
To github.com:Pablo-Caballero-Maria/EGC-2425.git
 * [new branch]      feature/conflicto -> feature/conflicto
rama 'feature/conflicto' configurada para rastrear 'origin/feature/conflicto'.
```

Ejercicio Git
Apartado 7


```
(.venv) practica@pc-12-65:~/EGC-2425$ git checkout fix/app-init
Cambiado a rama 'fix/app-init'
Tu rama está actualizada con 'origin/fix/app-init'.
(.venv) practica@pc-12-65:~/EGC-2425$ vim app/__init__.py
(.venv) practica@pc-12-65:~/EGC-2425$ git add app/*
Las siguientes rutas son ignoradas por uno de tus archivos .gitignore:
app/__pycache__
hint: Use -f if you really want to add them.
hint: Disable this message with "git config advice.addIgnoredFile false"
(.venv) practica@pc-12-65:~/EGC-2425$ git commit -m "feature: change database connection (again)"
[fix/app-init 0eb6868] feature: change database connection (again)
 1 file changed, 1 insertion(+), 1 deletion(-)
(.venv) practica@pc-12-65:~/EGC-2425$ git push
Enumerando objetos: 7, listo.
Contando objetos: 100% (7/7), listo.
Compresión delta usando hasta 16 hilos
Comprimiendo objetos: 100% (4/4), listo.
Escribiendo objetos: 100% (4/4), 503 bytes | 503.00 KiB/s, listo.
Total 4 (delta 2), reused 0 (delta 0), pack-reused 0 (from 0)
remote: Resolving deltas: 100% (2/2), completed with 2 local objects.
To github.com:Pablo-Caballero-Maria/EGC-2425.git
   c560215..0eb6868  fix/app-init -> fix/app-init
(.venv) practica@pc-12-65:~/EGC-2425$ git merge feature/conflicto
Auto-fusionando app/__init__.py
CONFLICTO (contenido): Conflicto de fusión en app/__init__.py
Fusión automática falló; arregle los conflictos y luego realice un commit con el resultado.
(.venv) practica@pc-12-65:~/EGC-2425$ vim app/__init__.py
```

Ejercicio Git

Apartado 7

```
<<<<<<< HEAD
    db.init_app(app, uri=os.getenv('DATABASE_URI'))
=======
    db.init_app(app, uri=os.getenv('DB_CONNECTION_STRING'))
>>>>>>> feature/conflicto
```

```
    db.init_app(app, uri=os.getenv('DATABASE_URI'))
    db.init_app(app, uri=os.getenv('DB_CONNECTION_STRING'))
```

Ejercicio Git

Apartado 7

Ejercicio Git

Apartado 8

```
(.venv) practica@pc-12-65:~/EGC-2425$ git log --oneline
678e7dc (HEAD -> hotfix/bug-critical, origin/hotfix/bug-critical) Fix the bug in the view_dataset card by uncommenting the card section, restoring the dataset view functionality
7260a34 Introduce a bug in the view_dataset card for the exam by commenting out the card section to simulate an error
546eea4 Initialise base project
```

Ejercicio Git

Apartado 9

Ejercicio Git
Apartado 10


```
(.venv) practica@pc-12-65:~/EGC-2425$ git checkout fix/bug-atomic
rama 'fix/bug-atomic' configurada para rastrear 'origin/fix/bug-atomic'.
Cambiado a nueva rama 'fix/bug-atomic'
(.venv) practica@pc-12-65:~/EGC-2425$ git log --oneline
1fbb834 (HEAD -> fix/bug-atomic, origin/fix/bug-atomic) Eliminar los archivos .txt creados durante el ejercicio
f46b275 Fix más cosas. (reword para aclarar: Mejora de la legibilidad en el código y corrección de estilo)
1d544e6 Fix bug algo raro (se combinará (squash) con el commit anterior durante el rebase)
f4d1f8f bugfix (cambiar mensaje a: 'Solución a un bug en la validación de entradas')
331027f Commit adicional (se combinará (squash) con el commit anterior y siguiente para simplificar el historial)
13cd556 2º commit relacionado (se combinará (squash) con los commits anterior y siguiente durante el rebase)
c9ff30e cambio 1 (se combinará (squash) con el commit de 'Solución a un bug en la validación de entradas'). Cambie el orden de los commits, si lo considera necesario
d46ce49 (origin/test/exam, origin/chore/vagrant, origin/chore/docker) Initial version ready for local deployment
546eea4 Initialise base project
(.venv) practica@pc-12-65:~/EGC-2425$
```

Ejercicio Git

Apartado 11

```
pick 546eea4 Initialise base project
pick d46ce49 Initial version ready for local deployment
reword f4d1f8f Solución a un bug en la validación de entradas
squash c9ff30e cambio 1 (se combinará (squash) con el commit de 'Solución a un bug en la validación de entradas'). Cambie el orden de los commits, si lo considera necesario
squash 13cd556 2º commit relacionado (se combinará (squash) con los commits anterior y siguiente durante el rebase)
squash 331027f Commit adicional (se combinará (squash) con el commit anterior y siguiente para simplificar el historial)
squash 1d544e6 Fix bug algo raro (se combinará (squash) con el commit anterior durante el rebase)
reword f46b275 Mejora de la legibilidad en el código y corrección de estilo
pick 1fbb834 Eliminar los archivos .txt creados durante el ejercicio
```

```
(.venv) practica@pc-12-65:~/EGC-2425$ git log --oneline
413a1be (HEAD -> fix/bug-atomic) Eliminar los archivos .txt creados durante el ejercicio
e2aa73f Mejora de la legibilidad en el código y corrección de estilo
b4b375b Solucion a un bug en la validacion de entradas
d46ce49 (origin/test/exam, origin/chore/vagrant, origin/chore/docker) Initial version ready for local deployment
546eea4 Initialise base project
```

Ejercicio Git

Apartado 12


```
(.venv) practica@pc-12-65:~/EGC-2425$ git checkout main
Cambiado a rama 'main'
Tu rama está actualizada con 'origin/main'.
(.venv) practica@pc-12-65:~/EGC-2425$ git checkout -b feature/parche
Cambiado a nueva rama 'feature/parche'
(.venv) practica@pc-12-65:~/EGC-2425$ git checkout fix/bug-atomic
Cambiado a rama 'fix/bug-atomic'
Tu rama está actualizada con 'origin/fix/bug-atomic'.
```

Ejercicio Git

Apartado 13


```
(.venv) practica@pc-12-65:~/EGC-2425$ git format-patch -10 HEAD --stdout > cambios.patch^C
(.venv) practica@pc-12-65:~/EGC-2425$ git status
En la rama fix/bug-atomic
Tu rama está actualizada con 'origin/fix/bug-atomic'.

Archivos sin seguimiento:
  (usa "git add <archivo>..." para incluirlo a lo que será confirmado)
        .venv/
        cambios.patch

no hay nada agregado al commit pero hay archivos sin seguimiento presentes (usa "git add" para hacerles seguimiento)
(.venv) practica@pc-12-65:~/EGC-2425$ git add cambios.patch
(.venv) practica@pc-12-65:~/EGC-2425$ git commit -m "feature: generate patch"
[fix/bug-atomic 7eebe80] feature: generate patch
 1 file changed, 22246 insertions(+)
 create mode 100644 cambios.patch
(.venv) practica@pc-12-65:~/EGC-2425$ git push
Enumerando objetos: 4, listo.
Contando objetos: 100% (4/4), listo.
Compresión delta usando hasta 16 hilos
Comprimiendo objetos: 100% (3/3), listo.
Escribiendo objetos: 100% (3/3), 1.62 MiB | 2.39 MiB/s, listo.
Total 3 (delta 1), reused 0 (delta 0), pack-reused 0 (from 0)
remote: Resolving deltas: 100% (1/1), completed with 1 local object.
To github.com:Pablo-Caballero-Maria/EGC-2425.git
   0a115ba..7eebe80  fix/bug-atomic -> fix/bug-atomic
```

Ejercicio Git

Apartado 14


```
(.venv) practica@pc-12-65:~/EGC-2425$ git checkout fix/bug-atomic
Cambiado a rama 'fix/bug-atomic'
Tu rama está actualizada con 'origin/fix/bug-atomic'.
(.venv) practica@pc-12-65:~/EGC-2425$ git log --oneline
7eebe80 (HEAD -> fix/bug-atomic, origin/fix/bug-atomic) feature: generate patch
```



```
(.venv) practica@pc-12-65:~/EGC-2425$ git checkout feature/parche
Cambiado a rama 'feature/parche'
(.venv) practica@pc-12-65:~/EGC-2425$ git cherry-pick 7eebe80
[feature/parche b4055e6] feature: generate patch
 Date: Fri Jan 10 17:59:40 2025 +0100
 1 file changed, 22246 insertions(+)
 create mode 100644 cambios.patch
```

Ejercicio Git

Apartado 15

Ejercicio GitHub Actions
Apartado 1

```
steps:
- uses: actions/checkout@v4

- uses: actions/setup-python@v5
  with:
    python-version: '3.11'

- name: Prepare environment
  run: |
    sed -i '/rosemary @ file:\/\/\/app/d' requirements.txt

- name: Install dependencies
```

```
(.venv) practica@pc-12-65:~/EGC-2425$ git checkout config/ci
rama 'config/ci' configurada para rastrear 'origin/config/ci'.
Cambiado a nueva rama 'config/ci'
(.venv) practica@pc-12-65:~/EGC-2425$ vim .github/workflows/ejercicio_ci.yml
```

Ejercicio GitHub Actions

Apartado 2

```yaml
dependencies:
  runs-on: ubuntu-latest
  needs: pytest

  steps:
    - uses: actions/checkout@v4
    - uses: actions/setup-python@v5
      with:
        python-version: '3.11'

    - name: Prepare environment
      run: |
        sed -i '/rosemary @ file:\/\/\/app/d' requirements.txt

    - name: Install dependencies
      run: |
        python -m pip install --upgrade pip
        pip install -r requirements.txt

    - name: List outdated dependencies
      run: |
        pip list --outdated
```

Ejercicio GitHub Actions

Apartado 3

Ejercicio GitHub Actions

Apartado 4

```
services:
  mysql:
    image: mysql:5.7
    env:
      MYSQL_ROOT_PASSWORD: uvlhub_root_password
      MYSQL_DATABASE: uvlhubdb_test
      MYSQL_USER: uvlhub_user
      MYSQL_PASSWORD: uvlhub_password
    ports:
      - 3306:3306
    options: --health-cmd="mysqladmin ping" --health-interval=10s --health-tim

strategy:
  matrix:
    mysql-version: ['5.7', '8.0']

steps:
- uses: actions/checkout@v4

- uses: actions/setup-python@v5
  with:
    python-version: '3.11'

- name: Prepare environment
```

Ejercicio GitHub Actions

Apartado 5

Ejercicio GitHub Actions

Apartado 6

```
name: Release workflow

on:
  push:
    tags:
      - "v.*.*"

jobs:
  release:
    name: Create gh release
    runs-on: ubuntu-latest

    steps:
      - name: checkout code
        uses: actions/checkout@v3

      - name: create release
        uses: softprops/action-gh-release@v2
~
```

Ejercicio GitHub Actions

Apartado 7

Ejercicio Docker

Apartado 1

```
docker-compose.dev.yml  docker-compose.prod.ssl.yml  docker-compose.prod.webhook.yml  docker-compose.prod.yml
(.venv) practica@pc-12-65:~/EGC-2425/docker$ docker compose -f docker-compose.dev.yml up -d --build
[+] Running 1/1
 ✘ nginx Error toomanyrequests: You have reached your pull rate limit. You may increase the limit by authenticating and upgrading: https://www.docker.com/increase-rate-limit
Error response from daemon: toomanyrequests: You have reached your pull rate limit. You may increase the limit by authenticating and upgrading: https://www.docker.com/increase-ra
```

Ejercicio Docker

Apartado 2

Ejercicio Docker

Apartado 3

Ejercicio Docker

Apartado 4

Ejercicio Docker

Apartado 5

Ejercicio Docker

Apartado 6

Ejercicio Vagrant

Apartado 1

Ejercicio Vagrant

Apartado 2

Ejercicio Vagrant

Apartado 3

Ejercicio Vagrant

Apartado 4