

Intensificación Técnica

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Enlace al repositorio de GitHub:

<https://github.com/jorgomde/EGC-2425.git>

Ejercicio Git

Apartado 1

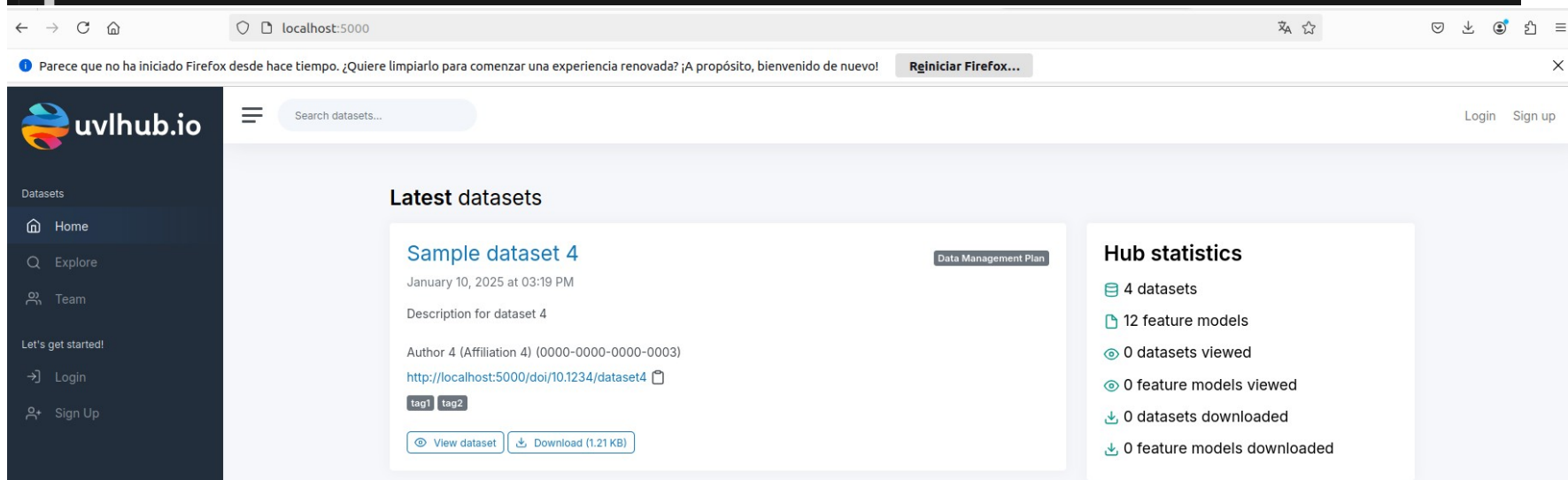


```
practica@pc-12-73: ~  
practica@pc-12-73:~$ git clone https://github.com/jorgomde/EGC-2425.git  
Clonando en 'EGC-2425'...  
remote: Enumerating objects: 382, done.  
remote: Counting objects: 100% (382/382), done.  
remote: Compressing objects: 100% (243/243), done.  
remote: Total 382 (delta 84), reused 382 (delta 84), pack-reused 0 (from 0)  
Recibiendo objetos: 100% (382/382), 1.60 MiB | 6.53 MiB/s, listo.  
Resolviendo deltas: 100% (84/84), listo.  
practica@pc-12-73:~$
```

Ejercicio Git

Apartado 2

```
Database populated with test data.
(venv) practica@pc-12-73:~/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://10.1.12.73:5000
Press CTRL+C to quit
* Restarting with stat
* Debugger is active!
* Debugger PIN: 304-682-182
```



Ejercicio Git

Apartado 3

```
(venv) practica@pc-12-73:~/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-12-73:~/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

Ejercicio Git

Apartado 5

```
• (venv) practica@pc-12-73:~/EGC-2425$ git checkout -b fix/app-init  
Cambiado a nueva rama 'fix/app-init'
```

```
• ^C(venv) practica@pc-12-73:~/EGC-2425$ git add .  
• (venv) practica@pc-12-73:~/EGC-2425$ git commit -m "Arreglar issue #1"  
[fix/app-init 560422a] Arreglar issue #1  
1 file changed, 2 deletions(-)  
⊗ (venv) practica@pc-12-73:~/EGC-2425$ git push
```

Ejercicio Git

Apartado 6

Ejercicio Git

Apartado 7

```
• (venv) practica@pc-12-73:~/EGC-2425$ git checkout -b feature/conflicto  
Cambiado a nueva rama 'feature/conflicto'
```

```
• (venv) practica@pc-12-73:~/EGC-2425$ git add .  
• (venv) practica@pc-12-73:~/EGC-2425$ git commit -m "Cambio en init para generar conflicto"  
[feature/conflicto 73fa91b] Cambio en init para generar conflicto  
1 file changed, 1 insertion(+), 1 deletion(-)  
• (venv) practica@pc-12-73:~/EGC-2425$ git push
```

```
• (venv) practica@pc-12-73:~/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-12-73:~/EGC-2425$ git add .  
• (venv) practica@pc-12-73:~/EGC-2425$ git commit -m "Cambio en init en otra rama para generar conflicto"  
[fix/app-init 41cfc6f] Cambio en init en otra rama para generar conflicto  
1 file changed, 1 insertion(+), 1 deletion(-)  
• (venv) practica@pc-12-73:~/EGC-2425$ git push
```


Ejercicio Git

Apartado 7

```
(venv) practica@pc-12-73:~/EGC-2425$ git merge fix/app-init 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-12-73:~/EGC-2425$
```

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

```
(venv) practica@pc-12-73:~/EGC-2425$ git add .
(venv) practica@pc-12-73:~/EGC-2425$ git commit -m "Confirmar cambios al hacer merge"
[fix/app-init adb1b98] Confirmar cambios al hacer merge
(venv) practica@pc-12-73:~/EGC-2425$
```

```
• (venv) practica@pc-12-73:~/EGC-2425$ git push
Enumerando objetos: 10, listo.
Contando objetos: 100% (10/10), listo.
Compresión delta usando hasta 16 hilos
Comprimiendo objetos: 100% (4/4), listo.
Escribiendo objetos: 100% (4/4), 524 bytes | 524.00 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 https://github.com/jorgomde/EGC-2425.git
  41cfc6f..adb1b98  fix/app-init -> fix/app-init
```

Ejercicio Git

Apartado 8

```
(venv) practica@pc-12-73:~/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
```

Ejercicio Git

Apartado 9

```
(venv) practica@pc-12-73:~/EGC-2425$ git checkout main
Cambiado a rama 'main'
Tu rama está actualizada con 'origin/main'.
(venv) practica@pc-12-73:~/EGC-2425$ git cherry-pick 678e7dc
[main ed5e3e8] Fix the bug in the view_dataset card by uncommenting the card section, restoring the dataset view functionality
Author: Belen Ramos <brgutierrez@us.es>
Date: Wed Jan 8 09:29:03 2025 +0100
2 files changed, 3 insertions(+), 2 deletions(-)
(venv) practica@pc-12-73:~/EGC-2425$ git push
Enumerando objetos: 17, listo.
Contando objetos: 100% (17/17), listo.
Compresión delta usando hasta 16 hilos
Comprimiendo objetos: 100% (6/6), listo.
Escribiendo objetos: 100% (9/9), 738 bytes | 738.00 KiB/s, listo.
Total 9 (delta 6), reused 3 (delta 1), pack-reused 0 (from 0)
remote: Resolving deltas: 100% (6/6), completed with 6 local objects.
To https://github.com/jorgomde/EGC-2425.git
7260a34..ed5e3e8  main -> main
```

Ejercicio Git

Apartado 10

```
• (venv) practica@pc-12-73:~/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-12-73:~/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
```

Ejercicio Git

Apartado 11

```
(venv) practica@pc-12-73:~/EGC-2425$ git rebase -i HEAD~8
[HEAD desacoplado a11de7f] Solución a un bug en la validación de entradas
Author: Belen Ramos <brgutierrez@us.es>
Date: Wed Jan 8 09:33:18 2025 +0100
1 file changed, 1 insertion(+)
create mode 100644 archivo4.txt
[HEAD desacoplado 9239c64] Solución a un bug en la validación de entradas
Author: Belen Ramos <brgutierrez@us.es>
Date: Wed Jan 8 09:33:18 2025 +0100
5 files changed, 5 insertions(+)
create mode 100644 archivo1.txt
create mode 100644 archivo2.txt
create mode 100644 archivo3.txt
create mode 100644 archivo4.txt
create mode 100644 archivo5.txt
[HEAD desacoplado ca6a9ff] Mejora de la legibilidad en el código y corrección de estilo
Author: Belen Ramos <brgutierrez@us.es>
Date: Wed Jan 8 09:33:19 2025 +0100
1 file changed, 1 insertion(+)
create mode 100644 archivo6.txt
Rebase aplicado satisfactoriamente y actualizado refs/heads/fix/bug-atomic.
(venv) practica@pc-12-73:~/EGC-2425$ git log --oneline
0e4ae5d (HEAD -> fix/bug-atomic) Eliminar los archivos .txt creados durante el ejercicio
ca6a9ff Mejora de la legibilidad en el código y corrección de estilo
9239c64 Solución a un bug en la validación 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

Ejercicio Git

Apartado 13

```
• (venv) practica@pc-12-73:~/EGC-2425$ git format-patch -10 HEAD --stdout > cambios.patch
```

```
• (venv) practica@pc-12-73:~/EGC-2425$ git add .  
• (venv) practica@pc-12-73:~/EGC-2425$ git commit -m "Crear parche cambios.patch"  
[fix/bug-atomic 392db03] Crear parche cambios.patch  
1 file changed, 22108 insertions(+)  
create mode 100644 cambios.patch  
⊗ (venv) practica@pc-12-73:~/EGC-2425$ git push
```

Ejercicio Git

Apartado 14

```
• (venv) practica@pc-12-73:~/EGC-2425$ git checkout feature/parche
Cambiado a rama 'feature/parche'
• (venv) practica@pc-12-73:~/EGC-2425$ git cherry-pick 61a61e2
[feature/parche 4174474] Crear parche cambios.patch
Date: Fri Jan 10 17:36:18 2025 +0100
1 file changed, 22108 insertions(+)
create mode 100644 cambios.patch
○ (venv) practica@pc-12-73:~/EGC-2425$
```


Ejercicio Git

Apartado 15

```
(venv) practica@pc-12-73:~/EGC-2425$ git am -i cambios.patch
Cuerpo de commit es:
-----
Initialise base project
-----
¿Aplicar? [y]es/[n]o/[e]dit/[v]iew patch/[a]ccept all: n
Cuerpo de commit es:
-----
Initial version ready for local deployment
-----
¿Aplicar? [y]es/[n]o/[e]dit/[v]iew patch/[a]ccept all: n
Cuerpo de commit es:
-----
Solución a un bug en la validación de entradas
-----
¿Aplicar? [y]es/[n]o/[e]dit/[v]iew patch/[a]ccept all: a
Aplicando: Solución a un bug en la validación de entradas
Aplicando: Mejora de la legibilidad en el código y corrección de estilo
Aplicando: Eliminar los archivos .txt creados durante el ejercicio
(venv) practica@pc-12-73:~/EGC-2425$ git add .
(venv) practica@pc-12-73:~/EGC-2425$ git commit -m "Parche aplicado"
En la rama feature/parche
Tu rama está adelantada a 'origin/feature/parche' por 3 commits.
(usa "git push" para publicar tus commits locales)

nada para hacer commit, el árbol de trabajo está limpio
(venv) practica@pc-12-73:~/EGC-2425$ git push
Enumerando objetos: 12, listo.
Contando objetos: 100% (12/12), listo.
Compresión delta usando hasta 16 hilos
Comprimiendo objetos: 100% (5/5), listo.
Escribiendo objetos: 100% (11/11), 1.04 KiB | 1.04 MiB/s, listo.
Total 11 (delta 2), reused 6 (delta 0), pack-reused 0 (from 0)
remote: Resolving deltas: 100% (2/2), completed with 1 local object.
To https://github.com/jorgomde/EGC-2425.git
767d53c..470718b feature/parche -> feature/parche
```

Ejercicio GitHub Actions

Apartado 1

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

Ejercicio GitHub Actions

Apartado 2

```
- name: outdated_dependencies  
  uses: actions/dependency-review-action@v4
```

Ejercicio GitHub Actions

Apartado 3

Ejercicio GitHub Actions

Apartado 4

Ejercicio GitHub Actions

Apartado 5

Ejercicio GitHub Actions

Apartado 6

Ejercicio GitHub Actions

Apartado 7

Ejercicio Docker

Apartado 1

```
(venv) practica@pc-12-73:~/EGC-2425$ git checkout chore/docker
rama 'chore/docker' configurada para rastrear 'origin/chore/docker'.
Cambiado a nueva rama 'chore/docker'
(venv) practica@pc-12-73:~/EGC-2425$ cp .env.docker.example .env
(venv) practica@pc-12-73:~/EGC-2425$ docker compose -f docker/docker-compose.dev.yml up -d
[+] Running 0/2
[+] Running 2/2g
x nginx Error toomanyrequests: You have reached your pull rate limit. You may increase the limit by authenticating and upgrading:... 0.2s
! web Warning toomanyrequests: You have reached your pull rate limit. You may increase the limit by authenticating and upgrading:... 1.1s
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-rate-limit 1.1s
```

Ejercicio Docker

Apartado 2

```
# Start the Flask application with specified host and port, enabling reload and debug mode  
exec flask run --host=0.0.0.0 --port=5000 --reload
```

Ejercicio Docker

Apartado 3

```
⊗ (venv) practica@pc-12-73:~/EGC-2425$ docker compose -f docker/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:... 4.2s
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-rate-limit
○ (venv) practica@pc-12-73:~/EGC-2425$
```

Ejercicio Docker

Apartado 4

```
FROM mariadb:11.2
```

```
RUN apt-get update && \  
    apt-get install -y mariadb-client && \  
    rm -rf /var/lib/apt/lists/*
```

Ejercicio Docker

Apartado 5

```
# Use an official Python runtime as a parent image
FROM python:3.12-slim

# Set this environment variable to suppress the "Running as root" warning from pip
ENV PIP_ROOT_USER_ACTION=ignore

# Install necessary packages
RUN apt-get update \
    && apt-get install -y --no-install-recommends mariadb-client \
    && apt-get install -y --no-install-recommends gcc libc-dev python3-dev libffi-dev \
    && apt-get install -y --no-install-recommends curl \
    && apt-get install -y --no-install-recommends bash \
    && apt-get install -y --no-install-recommends openrc \
    && apt-get install -y --no-install-recommends build-essential \
    && apt-get install -y --no-install-recommends net-tools \
    && apt-get install -y --no-install-recommends iputils-ping
```

Ejercicio Docker

Apartado 6

www.docker.com/increase-rate-limit

⊗ (venv) practica@pc-12-73:~/EGC-2425\$ docker compose -f docker/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:...

1.2s

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-rate-limit>

• (venv) practica@pc-12-73:~/EGC-2425\$ git add .

• (venv) practica@pc-12-73:~/EGC-2425\$ git commit -m "Cambios docker"

[chore/docker 4e6c7a3] Cambios docker

3 files changed, 4 insertions(+), 2 deletions(-)

• (venv) practica@pc-12-73:~/EGC-2425\$ git push

Enumerando objetos: 15, listo.

Contando objetos: 100% (15/15), listo.

Compresión delta usando hasta 16 hilos

Comprimiendo objetos: 100% (8/8), listo.

Escribiendo objetos: 100% (8/8), 718 bytes | 718.00 KiB/s, listo.

Total 8 (delta 6), reused 0 (delta 0), pack-reused 0 (from 0)

remote: Resolving deltas: 100% (6/6), completed with 6 local objects.

To <https://github.com/jorgomde/EGC-2425.git>

d46ce49..4e6c7a3 chore/docker -> chore/docker

Ejercicio Vagrant

Apartado 1

```
# Provider configuration
config.vm.provider "virtualbox" do |vb|
  vb.memory = "4096"
  vb.cpus = 6
end
end
```

Ejercicio Vagrant

Apartado 2

```
(venv) practica@pc-12-73:~/EGC-2425$ rm -r uploads
rm -r rosemary.egg-info
rm app.log*
(venv) practica@pc-12-73:~/EGC-2425$ cp .env.vagrant.example .env
(venv) practica@pc-12-73:~/EGC-2425$ cd vagrant
(venv) practica@pc-12-73:~/EGC-2425/vagrant$ vagrant up
```

```
TASK [Upgrade pip and setuptools for Python 3.12] *****
changed: [default]

TASK [Set up the Python 3.12 virtual environment] *****
changed: [default]

TASK [Activate the virtual environment and install dependencies] *****
changed: [default]

PLAY [all] *****

TASK [Gathering Facts] *****
ok: [default]

TASK [Add webhook to .moduleignore] *****
changed: [default]

TASK [Set database with Rosemary] *****
changed: [default]

TASK [Run Flask application] *****
changed: [default]

PLAY [all] *****

TASK [Gathering Facts] *****
ok: [default]

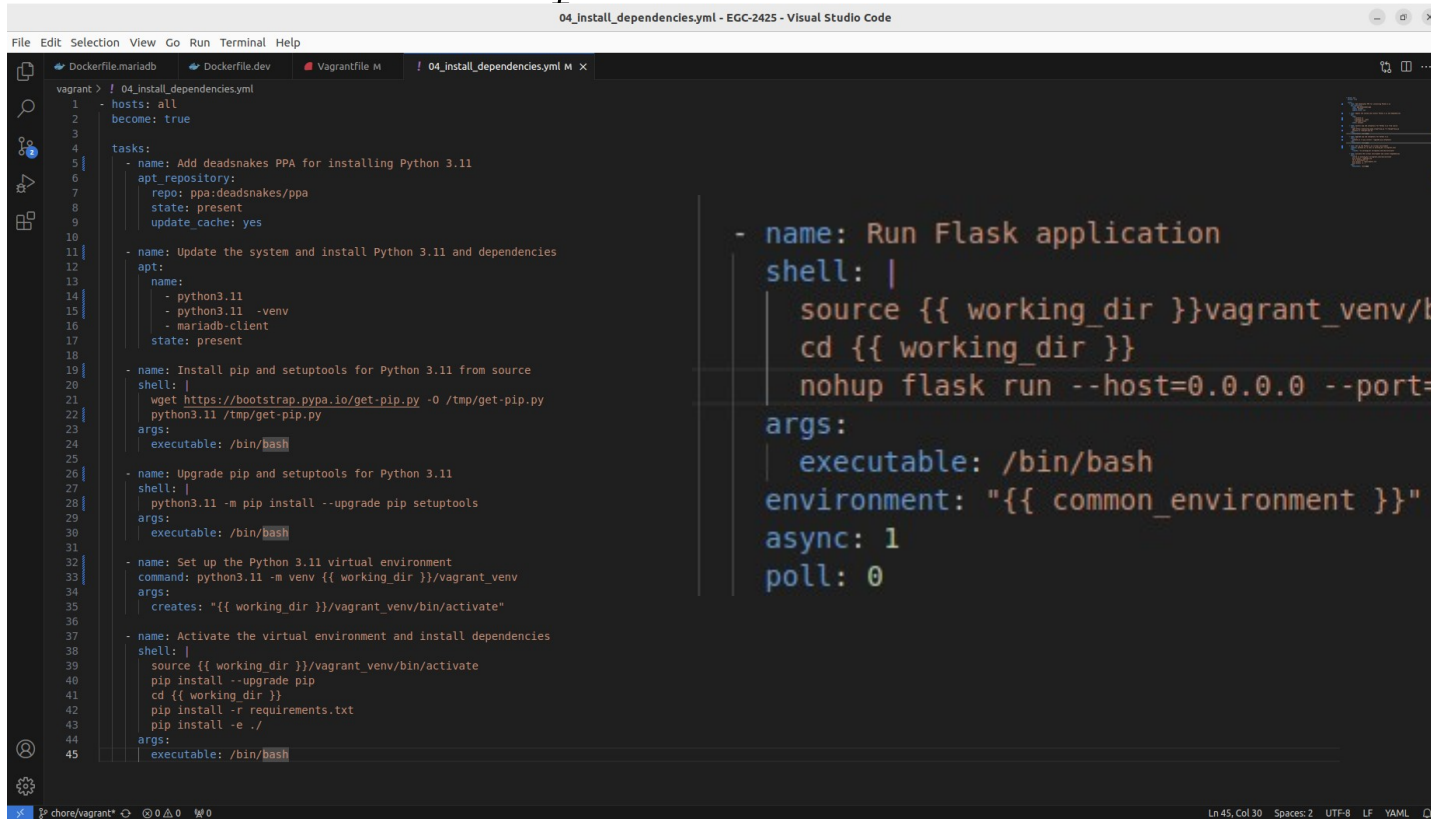
TASK [Add commands to .bashrc] *****
changed: [default] => (item=source /vagrant/vagrant_venv/bin/activate)
changed: [default] => (item=cd /vagrant/)

PLAY RECAP *****
default : ok=28  changed=20  unreachable=0  failed=0  skipped=1  rescued=0  ignored=0

==> default: Running provisioner: shell...
default: Running: inline script
==> default: Running provisioner: shell...
default: Running: inline script
```


Ejercicio Vagrant

Apartado 3



The screenshot shows the Visual Studio Code editor with a Vagrantfile open. The Vagrantfile is a YAML file that defines the configuration for a virtual machine. It includes tasks for installing Python 3.11, setting up a virtual environment, and running a Flask application. A terminal window is also open, showing the execution of the Vagrantfile tasks.

```
vagrant> ! 04_install_dependencies.yml
1  - hosts: all
2  - become: true
3
4  tasks:
5  - name: Add deadsnakes PPA for installing Python 3.11
6    apt_repository:
7      repo: ppa:deadsnakes/ppa
8      state: present
9      update_cache: yes
10
11 - name: Update the system and install Python 3.11 and dependencies
12   apt:
13     name:
14       - python3.11
15       - python3.11 -venv
16       - mariadb-client
17     state: present
18
19 - name: Install pip and setuptools for Python 3.11 from source
20   shell: |
21     wget https://bootstrap.pypa.io/get-pip.py -O /tmp/get-pip.py
22     python3.11 /tmp/get-pip.py
23   args:
24     executable: /bin/bash
25
26 - name: Upgrade pip and setuptools for Python 3.11
27   shell: |
28     python3.11 -m pip install --upgrade pip setuptools
29   args:
30     executable: /bin/bash
31
32 - name: Set up the Python 3.11 virtual environment
33   command: python3.11 -m venv {{ working_dir }}/vagrant_venv
34   args:
35     creates: "{{ working_dir }}/vagrant_venv/bin/activate"
36
37 - name: Activate the virtual environment and install dependencies
38   shell: |
39     source {{ working_dir }}/vagrant_venv/bin/activate
40     pip install --upgrade pip
41     cd {{ working_dir }}
42     pip install -r requirements.txt
43     pip install -e ./
44   args:
45     executable: /bin/bash
```

```
- name: Run Flask application
shell: |
  source {{ working_dir }}/vagrant_venv/bin/activate
  cd {{ working_dir }}
  nohup flask run --host=0.0.0.0 --port=5000 --reload > app.log
args:
  executable: /bin/bash
environment: "{{ common_environment }}"
async: 1
poll: 0
```

Ln 45, Col 30 Spaces: 2 UTF-8 LF YAML

Ejercicio Vagrant

Apartado 4

```
practica@pc-12-73:~/EGC-2425$ git add .
practica@pc-12-73:~/EGC-2425$ git commit -m "cambios vagrant"
[chore/vagrant 7963d5c] cambios vagrant
 3 files changed, 13 insertions(+), 13 deletions(-)
practica@pc-12-73:~/EGC-2425$ git push
Enumerando objetos: 11, listo.
Contando objetos: 100% (11/11), listo.
Compresión delta usando hasta 16 hilos
Comprimiendo objetos: 100% (6/6), listo.
Escribiendo objetos: 100% (6/6), 590 bytes | 590.00 KiB/s, listo.
Total 6 (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/jorgomde/EGC-2425.git
   d46ce49..7963d5c  chore/vagrant -> chore/vagrant
```