

```
root@DESKTOP-KT1D0MK:/home/juanperalta/compose-bd# cd ..
root@DESKTOP-KT1D0MK:/home/juanperalta# docker --version
Docker version 27.5.1, build 9f9e405
root@DESKTOP-KT1D0MK:/home/juanperalta# |
```

1.

```
root@DESKTOP-KT1D0MK:/home/juanperalta# cat main.py
from fastapi import FastAPI

app = FastAPI()

@app.get("/")
def read_root():
    return {"Hello": "World"}

if __name__ == "__main__":
    import uvicorn
    uvicorn.run(app, host="0.0.0.0", port=8000, reload=True)

~
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```

2.

```
FROM python:3.9
WORKDIR /code
COPY . /code
RUN pip install gunicorn
RUN pip install "fastapi[standard]"
EXPOSE 8000
CMD ["gunicorn", "-k", "uvicorn.workers.UvicornWorker", "Main:app", "--bind", "0.0.0.0:8000", "--reload"]
```

3.

4.

```
root@DESKTOP-KT1D0MK:/home/juanperalta/fastapi# docker build -t jdavidperalta .
[+] Building 31.6s (10/10) FINISHED
=> [internal] load build definition from Dockerfile
=> => transferring dockerfile: 246B
=> [internal] load metadata for docker.io/library/python:3.9
=> [auth] library/python:pull token for registry-1.docker.io
=> [internal] load .dockerignore
=> => transferring context: 2B
=> [1/4] FROM docker.io/library/python:3.9@sha256:c17c71e1f5f258803a6b7c391f8013adb8f84285af54c2a811de4a5a1ac5a8676
=> resolve docker.io/library/python:3.9@sha256:c17c71e1f5f258803a6b7c391f8013adb8f84285af54c2a811de4a5a1ac5a8676
=> sha256:8ccfaa3abdeee6cbe0aa62fc87eb1ee38273ff5fcd37a53540ef41539135cfec 248B / 248B
=> sha256:34ebcaeb2b96ed0e0dd912cf804fb1fa4b0293494685b1bcb36ceb1a2e1edc3c5 19.84MB / 19.84MB
=> sha256:a99bce2787d5ac2fcfe438b662580237f9bd4f971782666100914e43e6dae728 6.16MB / 6.16MB
=> sha256:7576b00d9bb18cc967bb5bdeeb3d5fa078ac8800e112aa03ed15ec199662d4f7 211.33MB / 211.33MB
=> sha256:35af2a7690f2b43e7237d1fae8e3f2350dfb25f3249e9cf65121866f9c56c772 64.39MB / 64.39MB
=> sha256:32b558bec6b2359a0f3a96bc0dc289f8b45d097eaa275887f163c6780b4108 24.06MB / 24.06MB
=> sha256:a492ee5e55976c7d3feecce4c564aaf6f14fb07fddc5019d06f0154eddc93fde 48.48MB / 48.48MB
=> extracting sha256:a492ee5e55976c7d3feecce4c564aaf6f14fb07fddc5019d06f0154eddc93fde
=> extracting sha256:32b558bec6b2359a0f3a96bc0dc289f8b45d097eaa275887f163c6780b4108
=> extracting sha256:35af2a7690f2b43e7237d1fae8e3f2350dfb25f3249e9cf65121866f9c56c772
=> extracting sha256:7576b00d9bb18cc967bb5bdeeb3d5fa078ac8800e112aa03ed15ec199662d4f7
=> extracting sha256:a99bce2787d5ac2fcfe438b662580237f9bd4f971782666100914e43e6dae728
=> extracting sha256:34ebcaeb2b96ed0e0dd912cf804fb1fa4b0293494685b1bcb36ceb1a2e1edc3c5
=> extracting sha256:8ccfaa3abdeee6cbe0aa62fc87eb1ee38273ff5fcd37a53540ef41539135cfec
=> [internal] load build context
=> => transferring context: 499B
=> [2/4] WORKDIR /code
=> [3/4] COPY . /code
=> [4/4] RUN pip install "fastapi[standard]"
=> exporting to image
=> exporting layers
=> exporting manifest sha256:cc6147ef310ab8c7034a95c7f10f26f7ae235becf1fc0a85268897a00c602b0
=> exporting config sha256:cf726d6a74088d9d14cd20dc5176fcdc269732a1076e2597d6ac123441a15296
=> exporting attestation manifest sha256:f86944597e7e8bdb5c8dd37f563369659b6c845125cbfc84917bb399126c03fd
=> exporting manifest list sha256:9080ec9e2215eda47b56c7f692c07126976370c408d217ed02b6b973733af25e
=> naming to docker.io/library/jdavidperalta:latest
=> unpacking to docker.io/library/jdavidperalta:latest
root@DESKTOP-KT1D0MK:/home/juanperalta/fastapi#
```
- Activar Windows
Ve a Configuración para activar Windows.

5.

```
Impresión con formato estilístico

{"Hello":"World"}
```

6.

```
root@DESKTOP-KT1D0MK:/home/juanperalta/fastapi# docker ps
CONTAINER ID   IMAGE          COMMAND                  CREATED        STATUS        PORTS                    NAMES
2cd62f1b50ed   jdavidperalta "unicorn -k uvicorn..." About a minute ago Up About a minute   0.0.0.0:8000->8000/tcp   contenedor-jdavid

root@DESKTOP-KT1D0MK:/home/juanperalta/fastapi#
```

7.

```
root@DESKTOP-KT1D0MK:/home/juanperalta/fastapi# docker stop 2cd6
2cd6
root@DESKTOP-KT1D0MK:/home/juanperalta/fastapi#
```

```
root@DESKTOP-KT1D0MK:/home/juanperalta/fastapi# docker rm 2cd62
2cd62
root@DESKTOP-KT1D0MK:/home/juanperalta/fastapi# |
```

8.

```
root@DESKTOP-KT1D0MK:/home/juanperalta/fastapi# docker tag 9602135e27a6 jdavidperalta/jdavidperalta:latest
root@DESKTOP-KT1D0MK:/home/juanperalta/fastapi# |
```

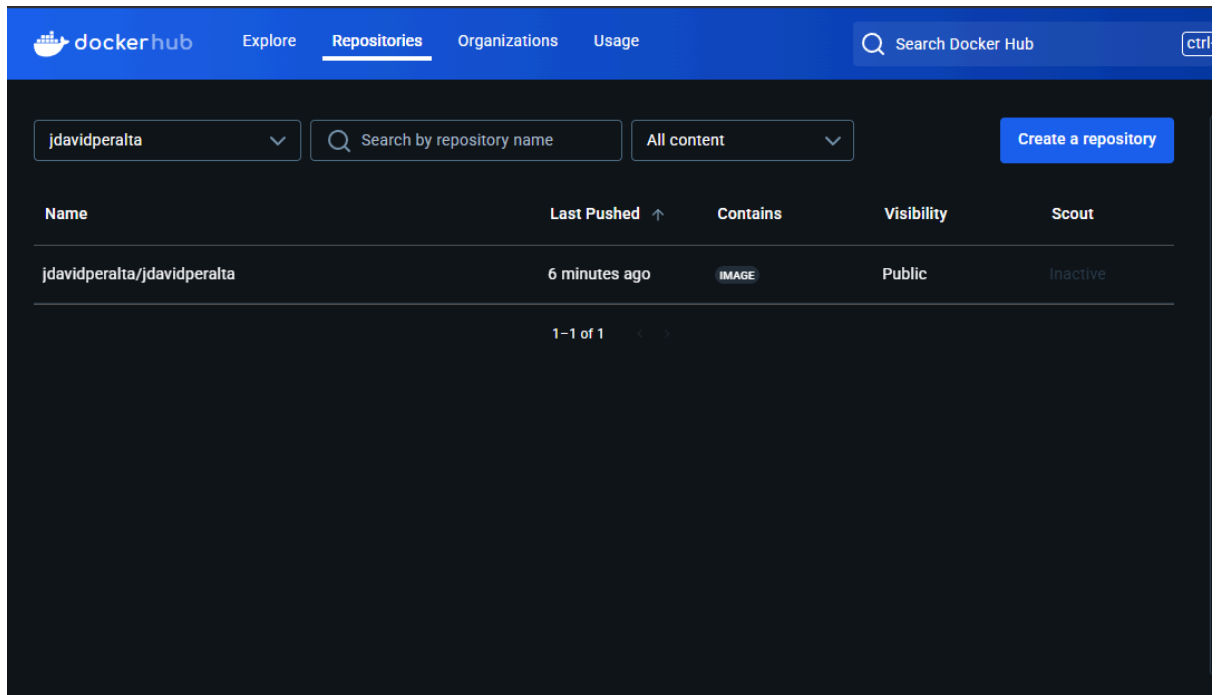
```
root@DESKTOP-KT1D0MK:/home/juanperalta/fastapi# docker login
Authenticating with existing credentials...
Login Succeeded
```

9.

```
root@DESKTOP-KT1D0MK:/home/juanperalta/fastapi# docker info
```

The screenshot shows the GitHub interface for a repository named 'docker-taller' owned by 'david123456858'. The repository is public and has 0 stars, 1 watch, and 0 forks. It contains a single commit 'a7653cb' from 1 minute ago with 1 commit. The commit message is 'docker taller finalizado'. The repository has two files: 'Dockerfile' and 'Main.py', both committed 1 minute ago. The README section is currently empty, with a prompt to 'Add a README'. The right sidebar shows sections for 'About' (no description), 'Releases' (no releases), 'Packages' (no packages), and 'Suggested workflows'. At the bottom right, there is a banner for 'Activar Windows' with a link to 'Python Package using Anaconda'.

10.



11.

```
root@DESKTOP-KT1D0MK:/home/juanperalta/fastapi# docker images
REPOSITORY          TAG         IMAGE ID      CREATED        SIZE
j davidperalta/j davidperalta  latest     9602135e27a6  37 minutes ago  1.56GB
portafolio           latest     0e20076222a1  3 hours ago    73.2MB
imageindex           latest     9b030eee30bd  28 hours ago   73.1MB
nginx                latest     91734281c0eb  12 days ago    279MB
python               alpine     323a717dc4a0  13 days ago    68.7MB
root@DESKTOP-KT1D0MK:/home/juanperalta/fastapi# docker rmi 96021
Untagged: j davidperalta/j davidperalta:latest
Deleted: sha256:9602135e27a6a02d06714775241de7b7091d47d0be25c5177ef79d5118123b59
root@DESKTOP-KT1D0MK:/home/juanperalta/fastapi# |
```

12.

```
root@DESKTOP-KT1D0MK:/home/juanperalta/fastapi# docker container prune
WARNING! This will remove all stopped containers.
Are you sure you want to continue? [y/N] y
Deleted Containers:
40683d4a2c55fe501a2c00b635e7d57e5d280ef8ab8989ab36413f62cea4036c

Total reclaimed space: 77.82kB
root@DESKTOP-KT1D0MK:/home/juanperalta/fastapi# |
```

13.