

## Taller #1 Docker - Cloud Computing

Encargado:

Ing. Salomón Cadenas

Estudiante:

Alexander Rodriguez

Universidad popular del Cesar

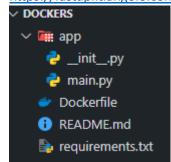
Facultad de ingeniería y tecnológicas

Ingeniería de sistemas

2025



 Se creo la aplicación FastAPI "hello world" guiandome desde el siguiente link https://fastapi.tiangolo.com/deployment/docker/



Se construye la imagen con el siguiente comando

Se crea el container y se expone en el puerto 8000

•

```
> docker run -d --name fastapi -p 8000:8000 alexanderjrs/fastapi
87b2d0fc98c88c7f72b71c34c0c6ee6e73e4e9f192c71efca6b4811b2138be50
> docker container ls
CONTAINER ID IMAGE COMMAND CREATED STATUS PORTS NAMES
87b2d0fc98c8 alexanderjrs/fastapi "uvicorn main:app --..." 5 seconds ago Up 5 seconds 0.0.0:8000->8000/tcp fastapi
```



Se inicia sesión en docker hub desde el cmd y luego se publica la imagen

```
The push refers to repository [docker.io/alexanderjrs/fastapi]
5f70bf18a086: Mounted from dremio/dremio-oss
edb34e52b6cb: Pushed
f710d6f87587: Pushed
903c15109fa8: Pushed
3dda89525fe0: Pushed
60a159600b22: Mounted from library/python
ee959616fc20: Mounted from library/python
d0e85779261a: Mounted from library/python
dafb8aed9f7f: Mounted from library/python
c0f51bbdc37d: Mounted from library/python
s0f51bbdc37d: Mounted from library/python
latest: digest: sha256:4dcf43df897720c4f0a41dadde2016b3e803b6b1fb6c627c1afae231f8b9e94e size: 2834
```

• Se creo el repositorio en github para subir las evidencias

```
> git init
Initialized empty Git repository in C:/Universidad/Dockers/.git/
> git add .
▶ git commit -m "Taller fastapi"
[master (root-commit) 3dfbd58] Taller fastapi
 5 files changed, 56 insertions(+)
 create mode 100644 Dockerfile
 create mode 100644 README.md
 create mode 100644 app/ init .py
 create mode 100644 app/main.py
 create mode 100644 requirements.txt
git branch -M main
git remote add origin https://github.com/Alexanderjrs/fastapi.git
git push -u origin main
info: please complete authentication in your browser...
Enumerating objects: 8, done.
Counting objects: 100% (8/8), done.
Delta compression using up to 8 threads
Compressing objects: 100% (7/7), done.
Writing objects: 100% (8/8), 1.21 KiB | 620.00 KiB/s, done.
Total 8 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)
To https://github.com/Alexanderjrs/fastapi.git
 * [new branch]
                     main -> main
branch 'main' set up to track 'origin/main'.
```



• Luego se hace la limpieza de imágenes y contenedores que no están en uso