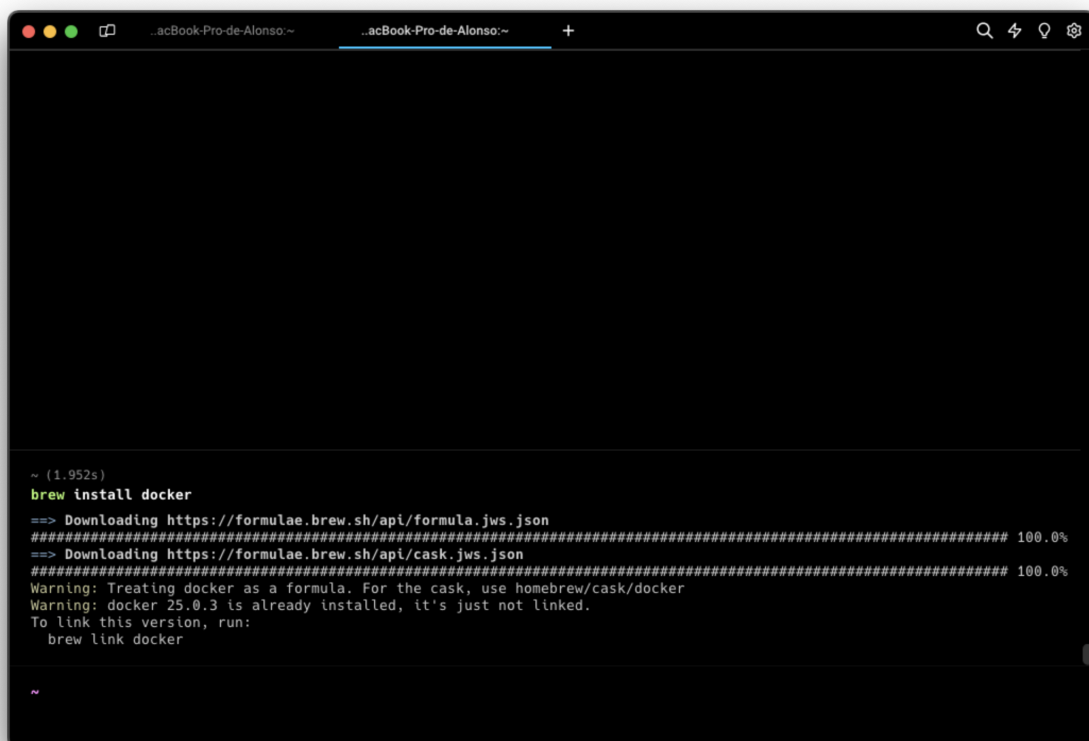


Actividad 1. Generar Docker

Repositorio en GitHub

<https://github.com/alonsofdez23/ai1-docker>

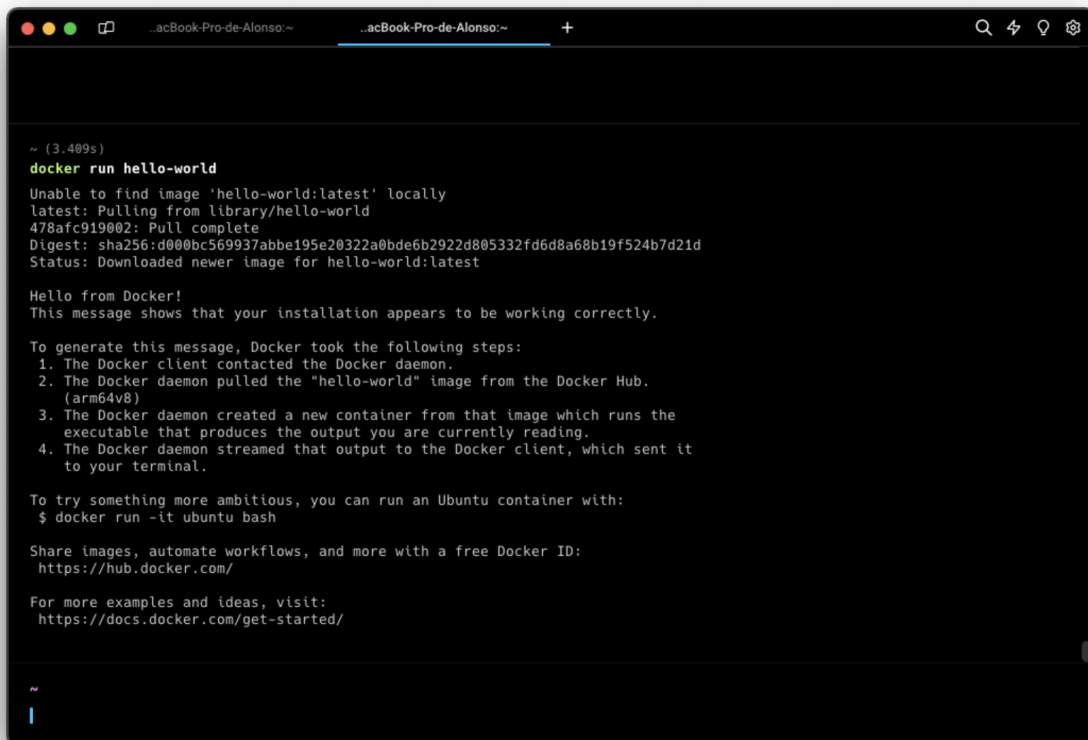
Instalamos **Docker** desde el gestor de paquete **brew** en macOS

A screenshot of a macOS terminal window with a dark background. The window title bar shows the name 'acBook-Pro-de-Alonso' and standard macOS window controls. The terminal displays the command 'brew install docker' and its output. The output shows the download progress for the Docker formula and a warning that Docker 25.0.3 is already installed but not linked. The prompt '~' is visible at the bottom of the terminal.

```
~ (1.952s)
brew install docker
==> Downloading https://formulae.brew.sh/api/formula.jws.json 100.0%
==> Downloading https://formulae.brew.sh/api/cask.jws.json 100.0%
Warning: Treating docker as a formula. For the cask, use homebrew/cask/docker
Warning: docker 25.0.3 is already installed, it's just not linked.
To link this version, run:
  brew link docker

~
```

Verificamos que **Docker** se instaló correctamente

A terminal window with a dark background and light text. The window title is '..acBook-Pro-de-Alonso:~'. The prompt is '~ (3.409s)'. The command 'docker run hello-world' has been executed. The output shows that Docker pulled the 'hello-world:latest' image from the Docker Hub. It then displays a 'Hello from Docker!' message and explains the steps Docker took to generate this message. It also provides instructions on how to run an Ubuntu container and links to Docker Hub and documentation.

```
~ (3.409s)
docker run hello-world
Unable to find image 'hello-world:latest' locally
latest: Pulling from library/hello-world
478afc919002: Pull complete
Digest: sha256:d000bc569937abbe195e20322a0bde6b2922d805332fd6d8a68b19f524b7d21d
Status: Downloaded newer image for hello-world:latest

Hello from Docker!
This message shows that your installation appears to be working correctly.

To generate this message, Docker took the following steps:
1. The Docker client contacted the Docker daemon.
2. The Docker daemon pulled the "hello-world" image from the Docker Hub.
   (arm64v8)
3. The Docker daemon created a new container from that image which runs the
   executable that produces the output you are currently reading.
4. The Docker daemon streamed that output to the Docker client, which sent it
   to your terminal.

To try something more ambitious, you can run an Ubuntu container with:
$ docker run -it ubuntu bash

Share images, automate workflows, and more with a free Docker ID:
https://hub.docker.com/

For more examples and ideas, visit:
https://docs.docker.com/get-started/

~
|
```

Creamos el archivo de python `main.py` y `Dockerfile`

```
#!/usr/bin/env python3
```

```
print("¡Soy Alonso Fernández Vidal de 2 curso de DAM!")
```

```
FROM python:latest
```

```
COPY main.py /
```

```
CMD [ "python", "./main.py" ]
```

Creamos la imagen `Docker`

```
~/repos/ai1-docker (21.725s)
docker build -t python-alonsofernandezvidal _
=> [internal] build context
=> => transferring context: 116B
=> [1/2] FROM docker.io/library/python:latest@sha256:e83d1f4d0c735c7a54fc9dae3cca8c58473e3b3de08fcb7ba3d342ee75cf 16.5s
=> resolve docker.io/library/python:latest@sha256:e83d1f4d0c735c7a54fc9dae3cca8c58473e3b3de08fcb7ba3d342ee75cf 0.0s
=> sha256:d8be44680b2ee1b130ed672009118bddac994245b4e91515a227b7bc89c6f952 7.13kB / 7.13kB 0.0s
=> sha256:c2964e85ea54bbef26d274e85fa0a3fde68f074e0774d0729e6e341e24eee1 49.59MB / 49.59MB 1.7s
=> sha256:603ae72c83b17aae41ce6857f0063bfd35b5f00dc5d7e1ad47fa18debb28b2c7 63.99MB / 63.99MB 3.6s
=> sha256:e83d1f4d0c735c7a54fc9dae3cca8c58473e3b3de08fcb7ba3d342ee75cf09d 2.14kB / 2.14kB 0.0s
=> sha256:50b77a04276dc888cbb8e8e70f2ae8c8e40be78361605ba92da56f1ffa9924db 2.01kB / 2.01kB 0.0s
=> sha256:d3436c315a5dcd9b17acc96236fdf378dcf2deb72fe9dafb42d894a3c362ac75 23.58MB / 23.58MB 1.5s
=> sha256:bcabfc6c415bdafce0fb78b78afe51a8be789b05c4c3f5ccf5f1046bb5d32776 202.52MB / 202.52MB 11.1s
=> extracting sha256:c2964e85ea54bbef26d274e85fa0a3fde68f074e0774d0729e6e341e24eee1 1.5s
=> sha256:f22e038e21dd64bf513cebe8e50ad7d54c2ad0ac1b18e5e8a3b5b81936122149 6.47MB / 6.47MB 2.1s
=> sha256:3ae45c5f75be3e1c8fea3fac5d90e92810dd6a6fb5693a1ca346cb0d0e231caa 22.22MB / 22.22MB 3.8s
=> extracting sha256:d3436c315a5dcd9b17acc96236fdf378dcf2deb72fe9dafb42d894a3c362ac75 0.4s
=> sha256:2107f7596de6061ffa395378e23aa3b4767bbb0921f55a4c6d15c35efb6f17a0 244B / 244B 3.9s
=> extracting sha256:603ae72c83b17aae41ce6857f0063bfd35b5f00dc5d7e1ad47fa18debb28b2c7 1.8s
=> sha256:13322359dbd458dbf78bfff93039f78161ff4a94cb608dc5cc4e6969cfb8a80e 2.70MB / 2.70MB 4.0s
=> extracting sha256:bcabfc6c415bdafce0fb78b78afe51a8be789b05c4c3f5ccf5f1046bb5d32776 4.2s
=> extracting sha256:f22e038e21dd64bf513cebe8e50ad7d54c2ad0ac1b18e5e8a3b5b81936122149 0.2s
=> extracting sha256:3ae45c5f75be3e1c8fea3fac5d90e92810dd6a6fb5693a1ca346cb0d0e231caa 0.4s
=> extracting sha256:2107f7596de6061ffa395378e23aa3b4767bbb0921f55a4c6d15c35efb6f17a0 0.0s
=> extracting sha256:13322359dbd458dbf78bfff93039f78161ff4a94cb608dc5cc4e6969cfb8a80e 0.2s
=> [2/2] COPY main.py /
=> exporting to image
=> exporting layers
=> writing image sha256:f953db6b8ae1bf0fe6cce0cfa138be3d3cc4e4cf53ed1d175c838ac524510f7b8
=> naming to docker.io/library/python-alonsofernandezvidal 0.0s

What's Next?
1. Sign in to your Docker account → docker login
2. View a summary of image vulnerabilities and recommendations → docker scout quickview

~/repos/ai1-docker
|
```

Corremos la imagen de **Docker** creada

```
~/repos/ai1-docker (0.393s)
docker run python-alonsofernandezvidal
¡Soy Alonso Fernández Vidal de 2 curso de DAM!

~/repos/ai1-docker
|
```

