

```
andreiam@andreiamserver:~$ sudo apt update  
[sudo] password for andreiam:
```

Actualizamos los paquetes

```
andreiam@andreiamserver:~$ sudo apt install docker.io  
Reading package lists... Done
```

Instalamos el paquete de Docker

```
andreiam@andreiamserver:~$ sudo docker run hello-world  
Unable to find image 'hello-world:latest' locally  
latest: Pulling from library/hello-world  
2db29710123e: Pull complete  
Digest: sha256:aa0cc8055b82dc2509bed2e19b275c8f463506616377219d9642221ab53cf9fe  
Status: Downloaded newer image for hello-world:latest
```

Comprobamos que esta instalado

```
andreiam@andreiamserver:~$ cd /home/andreiam/  
andreiam@andreiamserver:~$ mkdir docker  
andreiam@andreiamserver:~$ touch docker/Dockerfile  
andreiam@andreiamserver:~$ touch docker/main.py  
andreiam@andreiamserver:~$ ls -l  
total 4  
drwxrwxr-x 2 andreiam andreiam 4096 feb  9 15:26 docker  
andreiam@andreiamserver:~$ ll docker/  
total 8  
drwxrwxr-x 2 andreiam andreiam 4096 feb  9 15:26 ./  
drwxr-x--- 6 andreiam andreiam 4096 feb  9 15:26 ../  
-rw-rw-r-- 1 andreiam andreiam    0 feb  9 15:26 Dockerfile  
-rw-rw-r-- 1 andreiam andreiam    0 feb  9 15:26 main.py  
andreiam@andreiamserver:~$ _
```

Creamos la siguiente estructura de carpetas

```
andreiam@andreiamserver:~$ cd docker/  
andreiam@andreiamserver:~/docker$ nano main.py
```

Editamos el main.py

```
GNU nano 6.4  
#!/usr/bin/env python3  
  
print("Docker es mágico")
```

Dentro añadimos las siguientes líneas

```
andreiam@andreiamserver:~/docker$ nano Dockerfile _
```

Editamos el dockerfile

```
GNU nano 6.4
FROM python:latest
COPY main.py /
CMD ["python","./main.py"]
_
```

Dentro añadiremos las siguientes líneas

```
andreiam@andreiamserver:~/docker$ docker build -t python-test .
Got permission denied while trying to connect to the Docker daemon socket at unix:///var/run/docker.
sock: Post "http://%2Fvar%2Frun%2Fdocker.sock/v1.24/build?buildargs=%7B%7D&cachefrom=%5B%5D&cgrouppa
rent=&cpuperiod=0&cpuquota=0&cpusetcpus=&cpusetmems=&cpushares=0&dockerfile=Dockerfile&labels=%7B%7D
&memory=0&memswap=0&networkmode=default&rm=1&shmsize=0&t=python-test&target=&ulimits=null&version=1"
: dial unix /var/run/docker.sock: connect: permission denied
andreiam@andreiamserver:~/docker$ sudo docker build -t python-test .
Sending build context to Docker daemon 3.072kB
Step 1/3 : FROM python:latest
latest: Pulling from library/python
```

Creamos la imagen de Docker

```
andreiam@andreiamserver:~/docker$ sudo docker run python-test
Docker es mágico
andreiam@andreiamserver:~/docker$ _
```

Ejecutamos la imagen de Docker

```
andreiam@andreiamserver:~/docker$ sudo docker image ls
REPOSITORY      TAG         IMAGE ID      CREATED       SIZE
python-test     latest     f2bec6af9678  3 minutes ago 925MB
python          latest     39b10b20cfb2  15 hours ago 925MB
hello-world     latest     feb5d9fea6a5  16 months ago 13.3kB
andreiam@andreiamserver:~/docker$ _
```

Listamos las imágenes de Docker

```
andreiam@andreiamserver:~/docker$ sudo docker ps -a
CONTAINER ID   IMAGE          COMMAND                  CREATED        STATUS
PORTS         NAMES
ad7889221fa5   python-test    "python ./main.py"      About a minute ago  Exited (0) About a minute ago
32a7c2a0d7a4   hungry_banzai  "/hello"                17 minutes ago   Exited (0) 17 minutes ago
eloquent_diffie
```

Listamos los contenedores en funcionamiento.