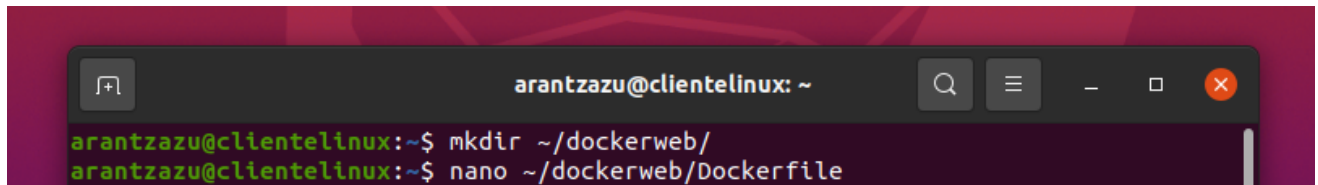


# EJERCICIO 4 - Imagen con DockerFile

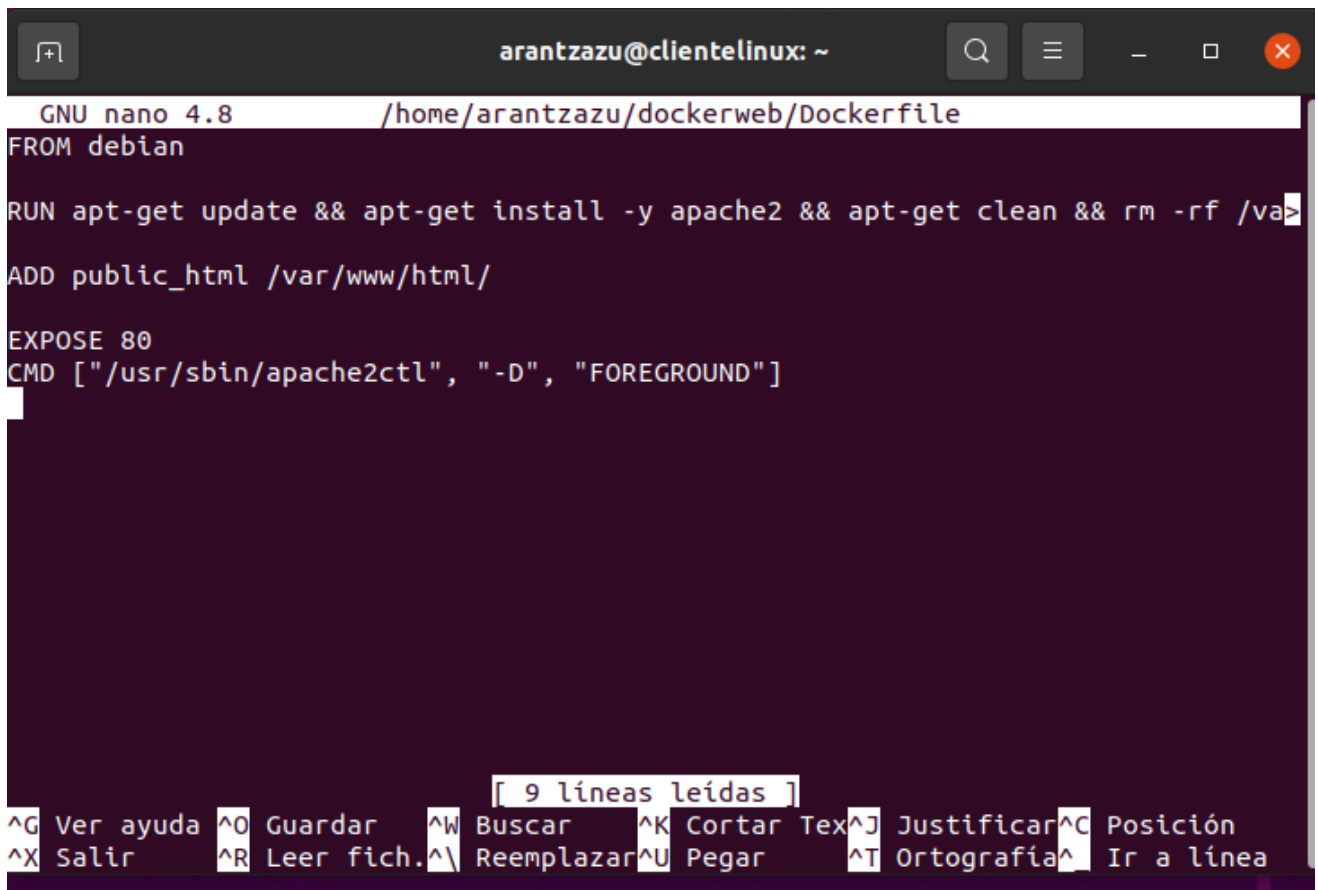
Creo una carpeta en Home llamada dockerweb

```
mkdir ~/dockerweb/
```



creamos un archivo llamado Dockerfile:

```
nano ~/dockerweb/Dockerfile
```



Explicando el contenido del Dockerfile:

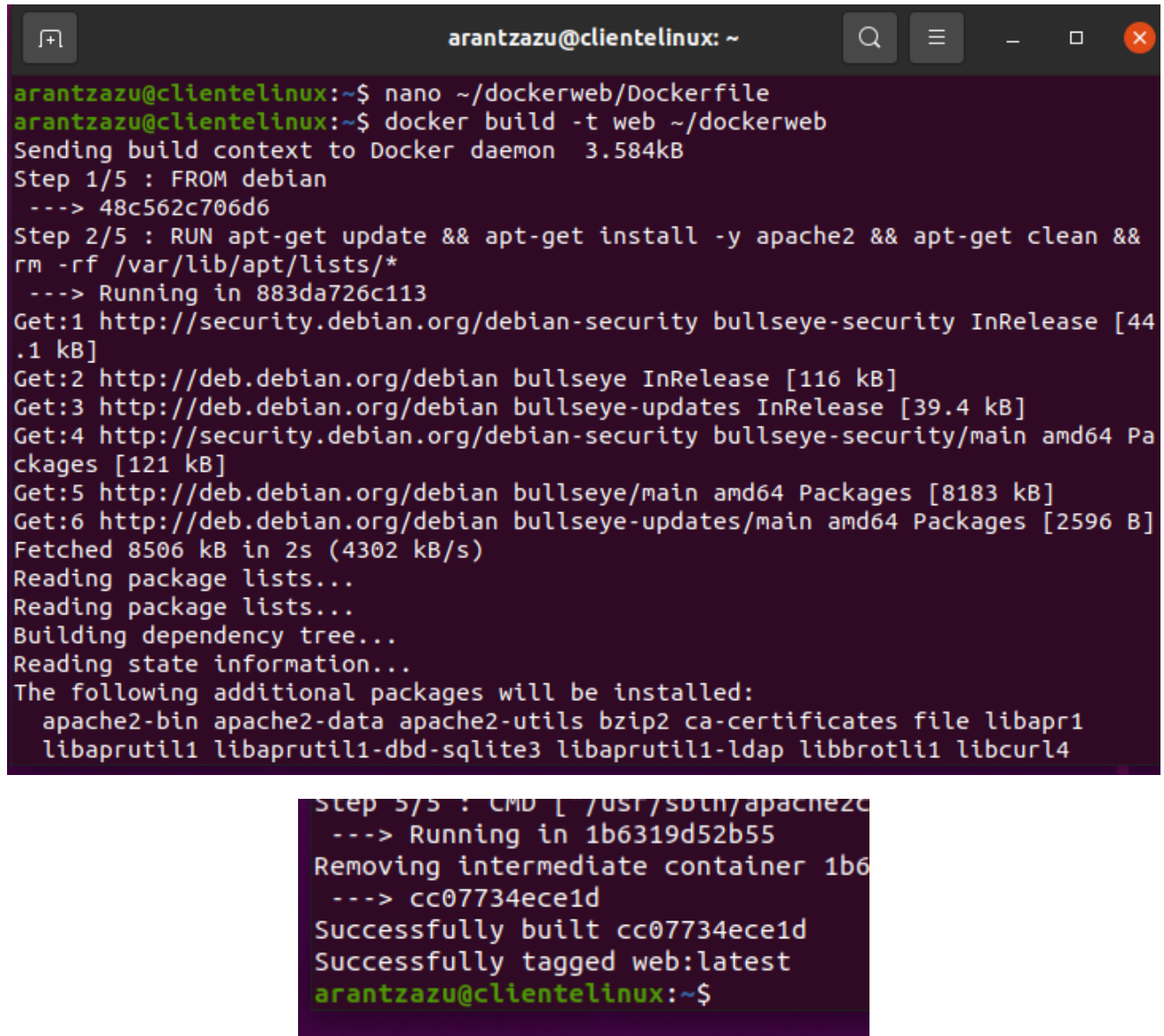
- debian: es el sistema operativo donde se van a montar los programas
- RUN apt-get update: aplicaciones a instalar o actualizar
- ADD public\_html /var/www/html/: copiar del directorio home al directorio de apache del contenedor
- expose 80: puerto que va a quedar abierto
- CMD /usr/sbin/apache2ctl -D FOREGROUND: ejecutar en la terminal como demonio.

Ahora ejecutamos en docker el contenido de Dockerfile:

```
sudo docker build -t web ~/dockerweb/
```

donde :

- web : es el nombre de la nueva imagen que crearemos
- ~/dockerweb/: Path donde está nuestro Dockerfile.



```
arantzazu@clientelinux: ~  
arantzazu@clientelinux:~$ nano ~/dockerweb/Dockerfile  
arantzazu@clientelinux:~$ docker build -t web ~/dockerweb  
Sending build context to Docker daemon 3.584kB  
Step 1/5 : FROM debian  
--> 48c562c706d6  
Step 2/5 : RUN apt-get update && apt-get install -y apache2 && apt-get clean &&  
rm -rf /var/lib/apt/lists/*  
--> Running in 883da726c113  
Get:1 http://security.debian.org/debian-security bullseye-security InRelease [44  
.1 kB]  
Get:2 http://deb.debian.org/debian bullseye InRelease [116 kB]  
Get:3 http://deb.debian.org/debian bullseye-updates InRelease [39.4 kB]  
Get:4 http://security.debian.org/debian-security bullseye-security/main amd64 Pa  
ckages [121 kB]  
Get:5 http://deb.debian.org/debian bullseye/main amd64 Packages [8183 kB]  
Get:6 http://deb.debian.org/debian bullseye-updates/main amd64 Packages [2596 B]  
Fetched 8506 kB in 2s (4302 kB/s)  
Reading package lists...  
Reading package lists...  
Building dependency tree...  
Reading state information...  
The following additional packages will be installed:  
  apache2-bin apache2-data apache2-utils bzip2 ca-certificates file libapr1  
  libaprutil1 libaprutil1-dbd-sqlite3 libaprutil1-ldap libbrotli1 libcurl4  
Step 3/5 : CMD ["/usr/sbin/apache2d  
--> Running in 1b6319d52b55  
Removing intermediate container 1b6  
--> cc07734ece1d  
Successfully built cc07734ece1d  
Successfully tagged web:latest  
arantzazu@clientelinux:~$
```

en nuestras imagenes de docker vamos a ver la nueva imagen creada:

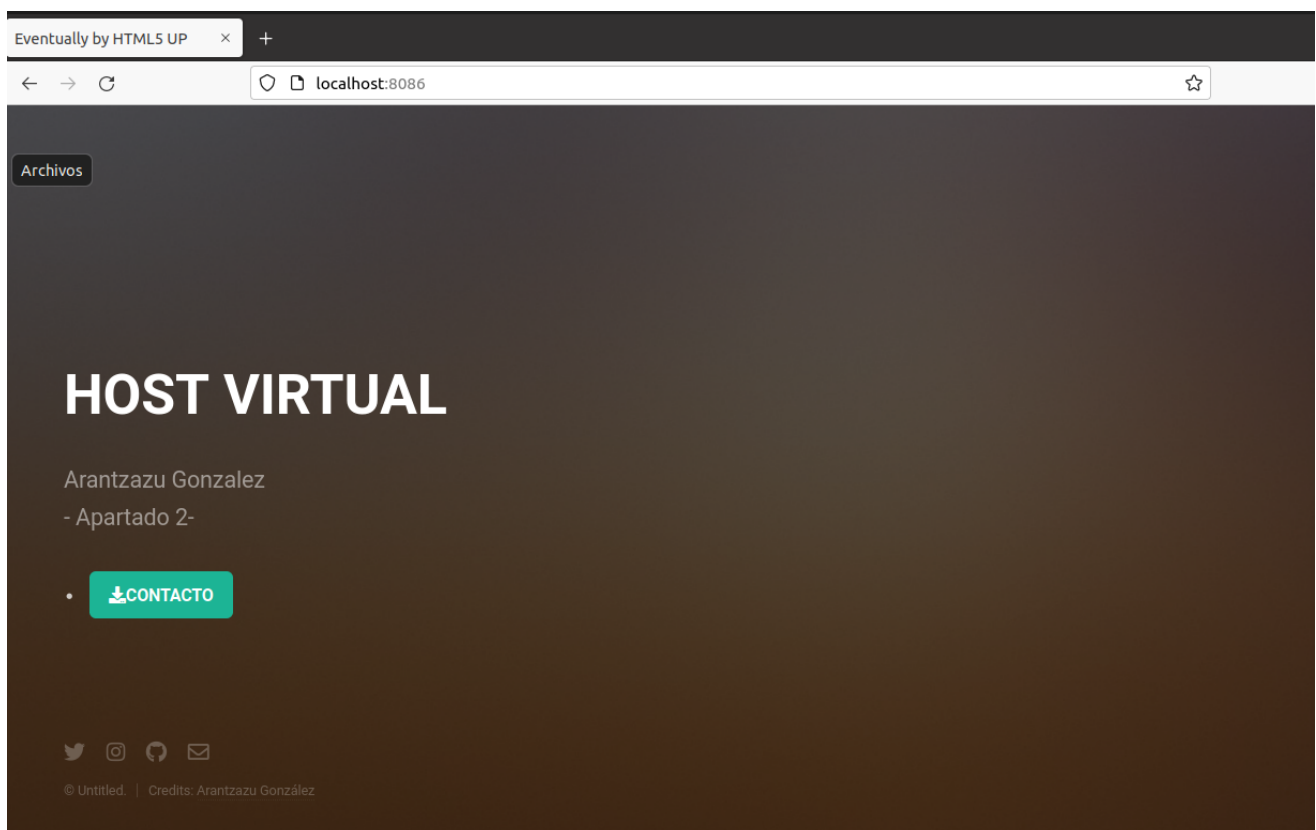
```
docker images
```

```
arantzazu@clientlinux: ~  
arantzazu@clientlinux:~$ docker images  
REPOSITORY    TAG       IMAGE ID       CREATED        SIZE  
web            latest    cc07734ece1d   2 minutes ago 235MB  
adminer        latest    33287ce4d5c5   2 days ago    90.5MB  
debian         latest    48c562c706d6   4 days ago    124MB  
php            7.4-apache 7a63d375f8d4   10 days ago   452MB  
mariadb        latest    f5dd1ac0b00e   11 days ago   414MB  
ubuntu         latest    2b4cba85892a   2 weeks ago   72.8MB  
nginx          latest    c919045c4c2b   2 weeks ago   142MB  
httpd          2.4       faed93b28859   2 weeks ago   144MB  
arantzazu@clientlinux:~$
```

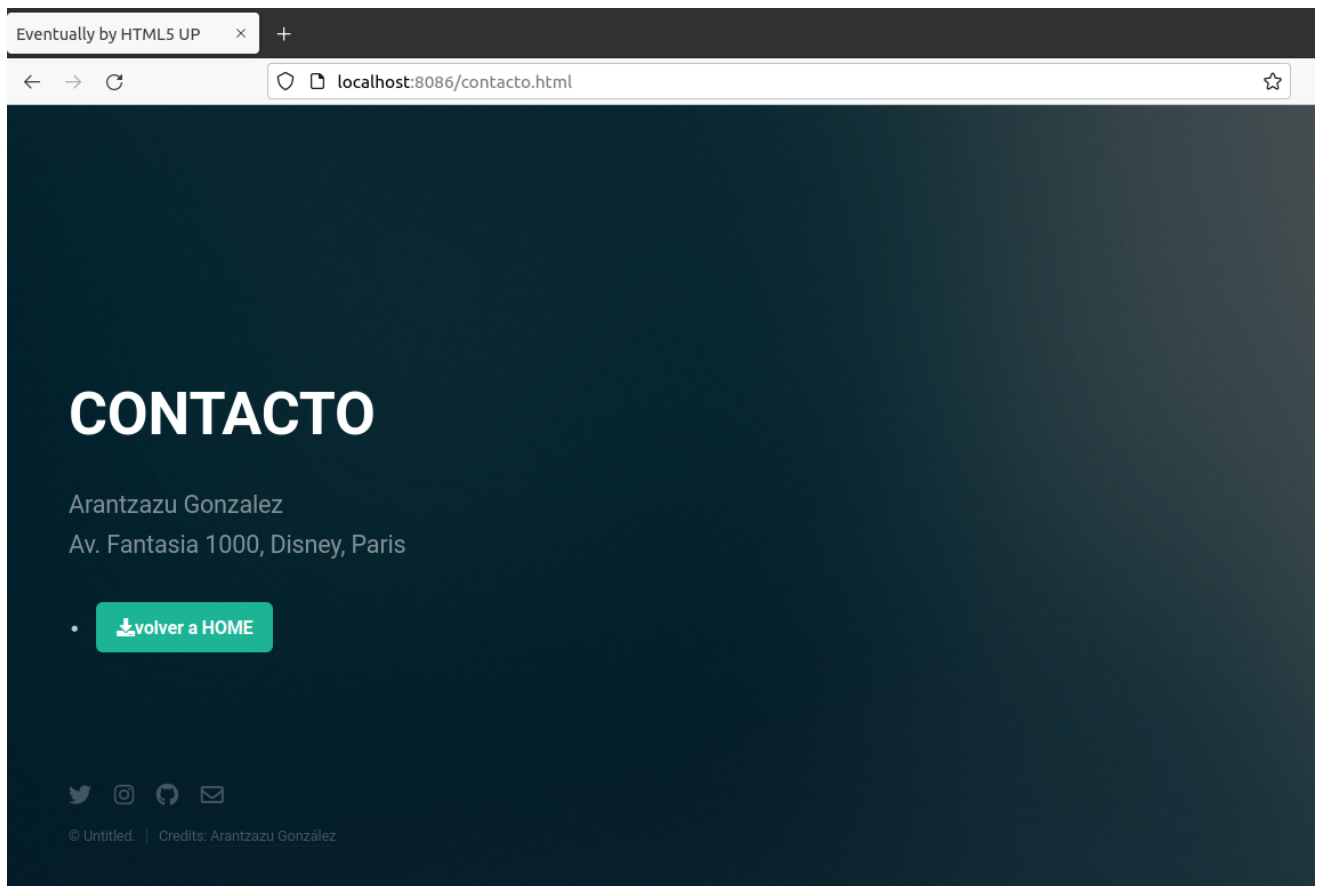
ahora creamos el contenedor con la imagen creada y que hemos llamado **web**

```
docker run -d -p 8086:80 --name arantxa web:latest
```

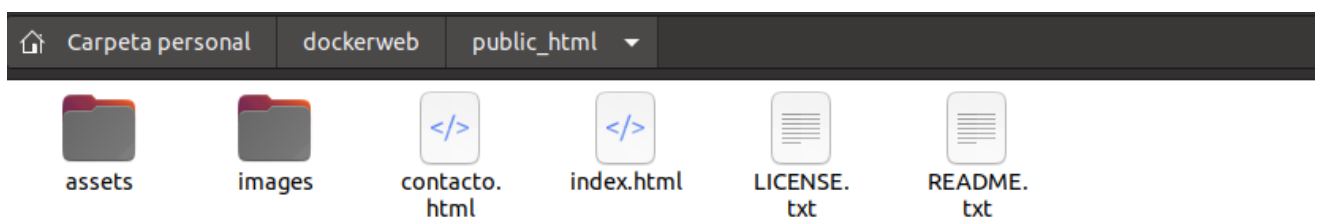
Si abrimos en una página de un navegador, vemos la web desplegada. Escribimos <http://localhost:8086>



Hacemos clic en el botón contacto y accedemos a la página `/contacto`



Captura de pantalla de las carpetas en el host cliente:

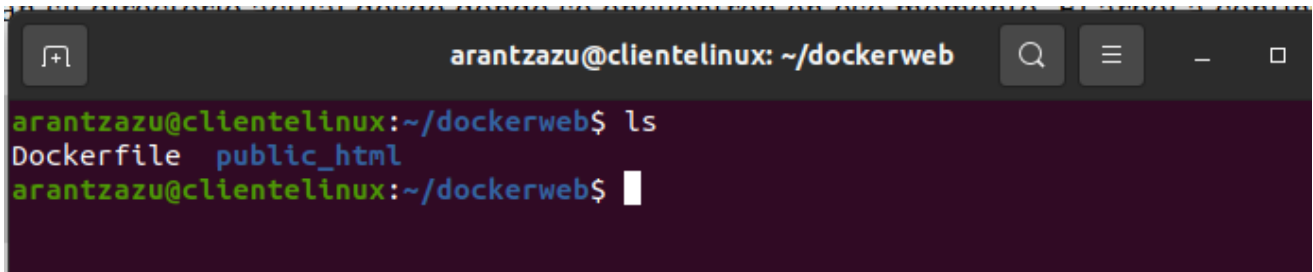


Solamente nos quedaría subir nuestra imagen a Docker Hub. Pero primero nos aseguramos de estar en la carpeta correcta:

```
cd /home/arantzazu/dockerweb/
```

listamos el contenido de esta carpeta, para asegurarnos que sea la correcta

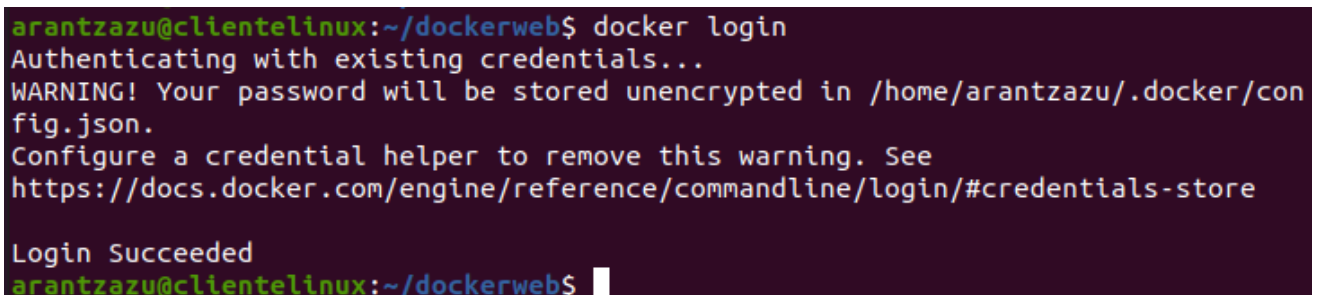
```
ls
```

A terminal window titled 'arantzazu@clientlinux: ~/dockerweb'. The prompt is 'arantzazu@clientlinux:~/dockerweb\$'. The command 'ls' has been entered, and the output is 'Dockerfile' and 'public\_html'.

```
arantzazu@clientlinux:~/dockerweb$ ls
Dockerfile  public_html
arantzazu@clientlinux:~/dockerweb$
```

Ahora solo quedaría subir la imagen a DOCKER HUB

```
docker login
```

A terminal window titled 'arantzazu@clientlinux: ~/dockerweb'. The prompt is 'arantzazu@clientlinux:~/dockerweb\$'. The command 'docker login' has been entered. The output shows 'Authenticating with existing credentials...', a warning about unencrypted passwords, and a link to Docker's documentation. It then says 'Login Succeeded'.

```
arantzazu@clientlinux:~/dockerweb$ docker login
Authenticating with existing credentials...
WARNING! Your password will be stored unencrypted in /home/arantzazu/.docker/config.json.
Configure a credential helper to remove this warning. See
https://docs.docker.com/engine/reference/commandline/login/#credentials-store

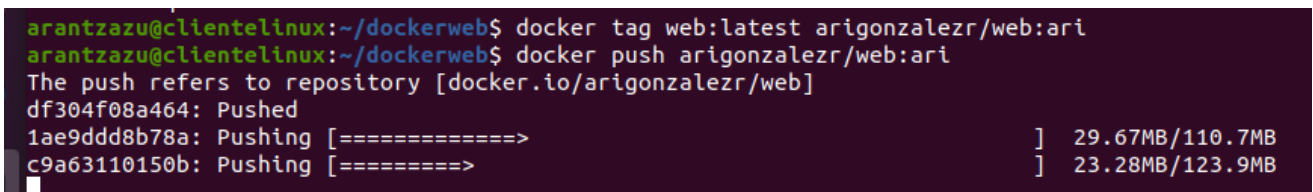
Login Succeeded
arantzazu@clientlinux:~/dockerweb$
```

Etiqueto la construcción de mi imagen

```
docker tag web:latest arigonzalezr/web:ari
```

y ahora subo la imagen

```
docker push arigonzalezr/web:ari
```

A terminal window titled 'arantzazu@clientlinux: ~/dockerweb'. The prompt is 'arantzazu@clientlinux:~/dockerweb\$'. The command 'docker tag web:latest arigonzalezr/web:ari' has been entered. The prompt is 'arantzazu@clientlinux:~/dockerweb\$'. The command 'docker push arigonzalezr/web:ari' has been entered. The output shows 'The push refers to repository [docker.io/arigonzalezr/web]', 'df304f08a464: Pushed', and progress bars for '1ae9ddd8b78a' and 'c9a63110150b'.

```
arantzazu@clientlinux:~/dockerweb$ docker tag web:latest arigonzalezr/web:ari
arantzazu@clientlinux:~/dockerweb$ docker push arigonzalezr/web:ari
The push refers to repository [docker.io/arigonzalezr/web]
df304f08a464: Pushed
1ae9ddd8b78a: Pushing [=====>] 29.67MB/110.7MB
c9a63110150b: Pushing [=====>] 23.28MB/123.9MB
```

Muestro mi imagen subida a DockerHub



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**arigonzalezr/web**

By [arigonzalezr](#) • Updated a few seconds ago

Container

**0**  
Stars