

Ejercicios Docker

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5. Ejercicio Dockerfile

Crear una imagen con un servidor web que sirva un sitio web

5. Ejercicio Dockerfile

Para la realización de este ejercicio es necesario tener una cuenta en Docker Hub.

Crear una imagen con un servidor web que sirva un sitio web

- Basar la imagen en `nginx` o `apache`
- Desplegar una plantilla, o un trabajo de clase, que tenga, al menos, un `index.html` y una carpeta para estilos, imágenes, etc.

Deberás entregar los siguientes pantallazos y los comandos empleados para resolver cada apartado:

1. Pantallazo/bloque de código con el Dockerfile

```
FROM nginx
ADD public_html /usr/share/nginx/html
RUN chown -R nginx /usr/share/nginx/html
EXPOSE 80
```

2. Pantallazo donde se vea el comando que crea la nueva imagen.

```
docker build -t zpy12803/retodiw_nginx .
docker run -d -p 8080:80 --name prueba zpy12803/retodiw_nginx
```

```

carol@caroldesk:~/dockerfile$ docker build -t zpy12803/retodiw_nginx:1.0 .
Sending build context to Docker daemon 5.955MB
Step 1/3 : FROM nginx
latest: Pulling from library/nginx
a2abf0c4d29d: Already exists
a9edb18cadd1: Pull complete
589b7251471a: Pull complete
186b1aaa4aa6: Pull complete
b4df32aa5a72: Pull complete
a0bcbecc962e: Pull complete
Digest: sha256:0d17b565c37bcd895e9d92315a05c1c3c9a29f762b011a10c54a66cd53c9b31
Status: Downloaded newer image for nginx:latest
--> 605c77e624dd
Step 2/3 : ADD public_html /usr/share/nginx/html
--> 7731df713286
Step 3/3 : EXPOSE 80
--> Running in 68d4809bd246
Removing intermediate container 68d4809bd246
--> 738955513f8b
Successfully built 738955513f8b
Successfully tagged zpy12803/retodiw_nginx:1.0
carol@caroldesk:~/dockerfile$ docker run -d -p 8080:80 --name prueba zpy12803/retodiw_nginx
Unable to find image 'zpy12803/retodiw_nginx:latest' locally
^C
carol@caroldesk:~/dockerfile$ docker run -d -p 8080:80 --name prueba zpy12803/retodiw_nginx:1.0
ba4f8f439f647874d866495ef3c3e66f878b60d21929ecd67823a0a858e5e53
carol@caroldesk:~/dockerfile$ docker ps -a
CONTAINER ID   IMAGE          COMMAND                  CREATED        STATUS        PORTS                               NAMES
ba4f8f439f64   zpy12803/retodiw_nginx:1.0   "/docker-entrypoint...."   10 seconds ago   Up 9 seconds   0.0.0.0:8080->80/tcp, :::8080->80/tcp   prueba
carol@caroldesk:~/dockerfile$

```

3. Pantallazo donde se vea la imagen subida a tu cuenta de Docker Hub.

```

carol@caroldesk:~/dockerfile$ docker login
Login with your Docker ID to push and pull images from Docker Hub. If you don't have a Docker ID, head over to https://hub.docker.com to create one.
Username: zpy12803
Password:
WARNING! Your password will be stored unencrypted in /home/carol/.docker/config.json.
Configure a credential helper to remove this warning. See
https://docs.docker.com/engine/reference/commandline/login/#credentials-store

Login Succeeded
carol@caroldesk:~/dockerfile$ docker push zpy12803/daw:retodiw_nginx
The push refers to repository [docker.io/zpy12803/daw]
99449c218940: Pushed
f6e1c1dfb514: Pushed
d874fd2bc83b: Mounted from library/nginx
32ce5f6a5106: Mounted from library/nginx
f1db227348d0: Mounted from library/nginx
b8d6e692a25e: Mounted from library/nginx
e379e8aedd4d: Mounted from library/nginx
2edcec3590a4: Mounted from library/nginx
retodiw_nginx: digest: sha256:c61bf1c10af557af59566efe6d444e495fca948581c816540b2cffd9076e068e size
: 1992
carol@caroldesk:~/dockerfile$

```

The screenshot shows the Docker Hub interface for the repository `zpy12803/daw`. The page includes a header with the Docker Hub logo and search bar. The repository page shows the name `zpy12803/daw` and a note that it does not have a description. Below this, there is a section for 'Tags and Scans' which shows a table with columns for TAG, OS, PULLED, and PUSHED. The table contains one entry for the tag `retodiw_nginx` on the `linux` OS, pushed a few seconds ago. There is also a section for 'Automated Builds' which explains how to connect to GitHub or Bitbucket for automatic builds.

TAG	OS	PULLED	PUSHED
retodiw_nginx	linux	a few seconds ago	a few seconds ago

4. Pantallazo donde se vea la bajada de la imagen - por parte de otra persona del grupo - y la creación de un contenedor.

```
sergio@sergio-VirtualBox:~$ docker pull zpy12803/daw:retodiw_nginx
retodiw_nginx: Pulling from zpy12803/daw
a2abf6c4d29d: Already exists
a9edb18cadd1: Already exists
589b7251471a: Already exists
186b1aaa4aa6: Already exists
b4df32aa5a72: Already exists
a0bcbecc962e: Already exists
6daaae30f46e: Pull complete
891ad5109d60: Pull complete
Digest: sha256:c61bf1c10af557af59566efe6d444e495fca948581c816540b2cffd9076e068e
Status: Downloaded newer image for zpy12803/daw:retodiw_nginx
docker.io/zpy12803/daw:retodiw_nginx
```

```
sergio@sergio-VirtualBox:~$ docker run -d -p 8080:80 --name pruebaSergio zpy12803/daw:retodiw_nginx
3427625a389294224dd86da84c8ca7ac63d06726e497024e8cf2c6b169d43f5f
sergio@sergio-VirtualBox:~$ docker ps
```

CONTAINER ID	IMAGE	COMMAND	CREATED	STATUS	PORTS
3427625a3892	zpy12803/daw:retodiw_nginx	"/docker-entrypoint..."	38 seconds ago	Up 37 seconds	0.0.0.0:8080->80/tcp, : ::8080->80/tcp

```
sergio@sergio-VirtualBox:~$
```

5. Pantallazo donde se ve el acceso al navegador con el sitio servido

