Docker, Práctica 2

Lee los siguientes artículos

https://www.ionos.es/digitalguide/servidores/know-how/comandos-de-docker/

https://docs.docker.com/get-started/

https://docs.docker.com/get-started/part2/

Lleva a cabo la práctica descrita en el primer artículo

1. Ejecuta la imagen "hello-world"

Para ejecutar la imagen hay que usar este comando después de instalar Docker

```
nabila@nabila-Standard-PC-i440FX-PIIX-1996:~$ sudo docker run -it hello-world
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.
    (amd64)
 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/
nabila@nabila-Standard-PC-i440FX-PIIX-1996:~$ {\sf \Gamma}^{
m I}
```

2. Muestra las imágenes Docker instaladas

```
nabila@nabila-Standard-PC-i440FX-PIIX-1996: ~$ sudo docker images

REPOSITORY TAG IMAGE ID CREATED SIZE
hello-world latest feb5d9fea6a5 17 months ago 13.3kB
nabila@nabila-Standard-PC-i440FX-PIIX-1996:~$
```

3. Muestra los contenedores Docker

```
nabila@nabila-Standard-PC-i440FX-PIIX-1996:-S sudo docker container ps -a

CONTAINER ID IMAGE COMMAND CREATED STATUS PORTS NAMES

2cfe6e453651 hello-world "/hello" 14 minutes ago Exited (0) 14 minutes ago exciting yalow I a6cebd47787b hello-world "/hello" 14 minutes ago Exited (0) 14 minutes ago ecstatic_murdock

nabila@nabila-Standard-PC-i440FX-PIIX-1996:-$
```

Lleva a cabo la práctica descrita en el segundo artículo

4. Edita el fichero Dockerfile

Vamos a hacer un contenedor de WordPress

Para ello primero creamos un directorio: sudo mkdir WordPress

Dentro de este directorio creamos un fichero se llama Dockerfile: **sudo gedit Dockerfile**Dentro de este fichero ponemos este contenido:

```
Dockerfile [Solo lectura]
                   Æ
version: '3.1'
services:
  wordpress:
      image: wordpress
restart: always
      ports:
      - 8080:80
environment:
          NVIronment:
WORDPRESS_DB_HOST: db
WORDPRESS_DB_USER: exampleuser
WORDPRESS_DB_PASSWORD: examplepass
WORDPRESS_DB_NAME: exampledb
            - wordpress:/var/www/html
      image: mysql:5.7
restart: always
environment:
          nVIronment:
MYSQL_DATABASE: exampledb
MYSQL_USER: exampleuser
MYSQL_PASSWORD: examplepass
MYSQL_RANDOM_ROOT_PASSWORD: '1'
      volumes:
- db:/var/lib/mysql
olumes:
  wordpress:
  db:
```

Guardamos y cerrarlo

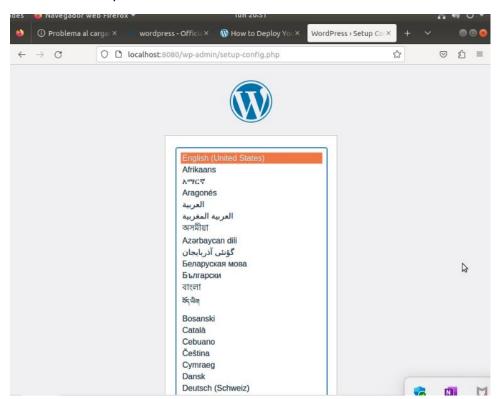
- 5. Construye el contenedor
- 6. Ejecútalo

Para ejecutarlo usamos este comando.

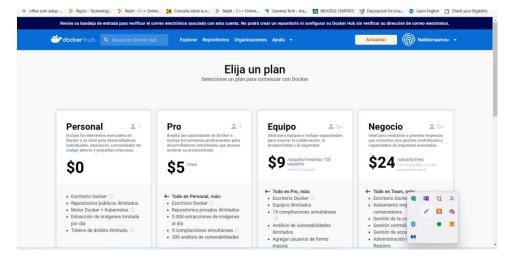
```
nabila@nabila-Standard-PC-i440FX-PIIX-1996:/wordpress$ sudo chmod 777 /var/run/*nabila@nabila-Standard-P C-i440FX-PIIX-1996:/wordpress docker run --name some-wordpress -p 8080:80 -d wordpress Unable to frind image 'wordpress:latest' locally latest: Pulling from library/wordpress 3f9582a2cbe7: Pull complete 6095dc92ce55: Pull complete 63630ff9f8131: Pull complete 649efbc577363: Pull complete 649efbc577363: Pull complete 65f32ce2c963: Pull complete 65f32c96d1: Pull complete 65c6329661: Pull complete 65c6329661: Pull complete 65b0674d2e6c: Pull complete 63b0674d2e6c: Pull complete 628dd6954d0b: Pull complete 628dd6954d0b: Pull complete 628dd6954d0b: Pull complete 6756053646: Pull complete 6756326646: Pull complete 675632fd4f6c: Pull complete 675632fd4f6c: Pull complete 675632fd4f6c: Pull complete 675632fd4f6c: Pull complete 677d1e08b8c: Pull complete 77d1e08b8c: Pull complete F17d1e08bc: Pull complete 677d1e08bc: Pull complete 677d1e08bc:
```

En el navegador ponemos http://localhost:8080

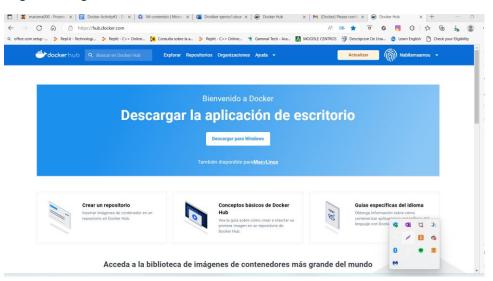
Y como veremos ya funciona correctamiente



7. Create una cuenta en hub.docker.com



Registramos gratis



8. Publicalo

Primero hacemos un login utilizan este comando.

```
ping 8.8.8.8

nabila@nabila-Standard-PC-i440FX-PIIX-1996:-$ docker login

Login with your Docker ID to push and pull images from Docker Hub. If you don't have a Docker ID, head o ver to https://hub.docker.com to create one.

Username: nabilamaamou

Password:

Login Succeeded

nabila@nabila-Standard-PC-i440FX-PIIX-1996:-$ docker images
```

Publicamos ahora nuesta imagen de docker.

```
Publicamos ahora nuesta imagen de docker.

nabila@nabila-Standard-PC-i440FX-PIIX-1996:~$ docker push dock
Using default tag: latest
The push refers to repository [docker.io/library/dockerfile]
0ed3d7c69a79: Preparing
021dee135070: Preparing
021dee135070: Preparing
01153608de86d: Preparing
0153608de86d: Preparing
040920ff5b7: Waiting
040920ff5b7: Waiting
040920ff5b7: Waiting
06028fbfee4c: Waiting
06028fbfee4c: Waiting
06028fbfee4c: Waiting
0735a0e4b404: Waiting
9735a0e4b404: Waiting
08053b6d3720e: Waiting
18b9f137c836: Waiting
0815b0a7ad9: Waiting
08456a1766d5: Waiting
09456a1766d5: Waiting
09456a1766d5: Waiting
091d825b62255: Waiting
01d87ad5c14ce: Waiting
01d87ad5c14ce: Waiting
01d87ad5c14ce: Waiting
01d825b62255: Waiting
01d87ad5c14ce: Waiting
01d825b62255: Waiting
01d825baabala-7andard-PC-i440FX-PTTX-1996:-cc

| Comparison of the push of the product of the path of the path of the product of the path of
               denied: requested access to the resource is denied
```

Nota: Para publicar una imagen debes conectar previamente con dockerhub, tal como se muestra en el siguiente artículo:

https://www.thegeekdiary.com/how-to-build-and-push-docker-image-to-the-docker-hubrepository/