PRACTICA GUIADA 1. PRIMEROS PASOS EN DOCKER

Comprobar: la instalación de Docker

```
carperraj@info2-14:~$ docker --version
Docker version 24.0.2, build cb74dfc
```

Paso 2. Verificar si funciona.

Comprobar

Docker run hello-world

```
carperraj@info2-14:~$ docker run 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/

carperraj@info2-14:~$
```

Paso 3. Descargar una imagen

```
carperraj@info2-14:~$ docker pull mysql
Using default tag: latest
latest: Pulling from library/mysql
8e0176adc18c: Pull complete
2d2c52718f65: Pull complete
d88d03ce139b: Pull complete
4a7d7f11aa1e: Pull complete
ce5949193e4c: Pull complete
f7f024dfb329: Pull complete
5fc3c840facc: Pull complete
509068e49488: Pull complete
cbc847bab598: Pull complete
942bef62a146: Pull complete
Digest: sha256:1773f3c7aa9522f0014d0ad2bbdaf597ea3b1643c64c8ccc2123c64afd8b82b1
Status: Downloaded newer image for mysql:latest
docker.io/library/mysql:latest
carperraj@info2-14:~$
```

_____

Paso 4. Comprobar mis imágenes descargados:

```
carperraj@info2-14:~$ docker images
REPOSITORY    TAG       IMAGE ID       CREATED         SIZE
mysql         latest    a3b6608898d6   3 weeks ago     596MB
hello-world   latest    9c7a54a9a43c   6 months ago    13.3kB
carperraj@info2-14:~$
```

Paso 5. Configuración de una variable de entorno

1. Crear una Nueva Contraseña:

Cuando ejecutas el contenedor MySQL con el comando `docker run`, puedes establecer la contraseña para el usuario `root` utilizando la opción `-e MYSQL_ROOT_PASSWORD=mi-contraseña`. Reemplaza `mi-contraseña` con la contraseña que deseas usar.

```
carperraj@info2-14:~$ docker run mysql
2023-11-15 11:02:44+00:00 [Note] [Entrypoint]: Entrypoint script for MySQL Server 8.2.
0-1.el8 started.
2023-11-15 11:02:44+00:00 [Note] [Entrypoint]: Switching to dedicated user 'mysql'
2023-11-15 11:02:44+00:00 [Note] [Entrypoint]: Entrypoint script for MySQL Server 8.2.
0-1.el8 started.
2023-11-15 11:02:44+00:00 [ERROR] [Entrypoint]: Database is uninitialized and passwor
 option is not specified
    You need to specify one of the following as an environment variable:
    - MYSQL_ROOT_PASSWORD
    - MYSQL_ALLOW_EMPTY_PASSWORD
    - MYSQL_RANDOM_ROOT_PASSWORD
carperraj@info2-14:~$
```

Al usar esta opción, estás estableciendo la contraseña de root directamente en el momento de crear el contenedor.

```
carperraj@info2-14:~$ docker run --name mi-mysql -e MYSQL_ROOT_PASSWORD=carlos -d mysq
l:latest
bd24cddfdd661021e54cb2ae0cd02b71b92dc138e65c30b594a6afdc9ce64055
carperraj@info2-14:~$
```

Paso 6.

```
carperraj@info2-14:~$ docker ps
CONTAINER ID   IMAGE          COMMAND                  CREATED              STATUS              PORTS                 NAMES
bd24cddfdd66   mysql:latest   "docker-entrypoint.s…"   About a minute ago   Up About a minute   3306/tcp, 33060/tcp   mi-mysql
carperraj@info2-14:~$
```

Paso 7. Comprobar si esta en funcionamiento: