

3)

```
Símbolo del sistema
Microsoft Windows [Versión 10.0.22621.2361]
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C:\Users\lauty>docker pull busybox
Using default tag: latest
latest: Pulling from library/busybox
3f4d90098f5b: Pull complete
Digest: sha256:3fbc632167424a6d997e74f52b878d7cc478225cfffac6bc977eedfe51c7f4e79
Status: Downloaded newer image for busybox:latest
docker.io/library/busybox:latest

What's Next?
  View a summary of image vulnerabilities and recommendations → docker scout quickview busybox

C:\Users\lauty>docker imagesx
docker: 'imagesx' is not a docker command.
See 'docker --help'

C:\Users\lauty>docker images
REPOSITORY    TAG       IMAGE ID       CREATED        SIZE
busybox       latest    a416a98b71e2   2 months ago   4.26MB

C:\Users\lauty>
```

4)

```
Símbolo del sistema

C:\Users\lauty>docker run busybox

C:\Users\lauty>
```

No se obtuvo ningún resultado porque se creó un contenedor y al ser una imagen que no hace nada automáticamente se cerró.

```
C:\Users\lauty>docker run busybox echo "Hola Mundo"
Hola Mundo

C:\Users\lauty>
```

```
Simbolo del sistema x + v
C:\Users\lauty>docker ps
CONTAINER ID   IMAGE     COMMAND   CREATED   STATUS    PORTS   NAMES
C:\Users\lauty>docker ps -a
CONTAINER ID   IMAGE     COMMAND   CREATED   STATUS    PORTS   NAMES
25922fdea02f   busybox   "echo 'Hola Mundo'"   32 seconds ago   Exited (0) 31 seconds ago   thirsty_rhodes
f70224a3f017   busybox   "sh"      2 minutes ago   Exited (0) 2 minutes ago   xenodochial_galile
o
232dd4be16dd   busybox   "sh"      3 minutes ago   Exited (0) 2 minutes ago   relaxed_jang
C:\Users\lauty>
```

5)

```
C:\Users\lauty>docker run -it busybox sh
/ # ps
PID   USER     TIME   COMMAND
    1   root      0:00   sh
    7   root      0:00   ps
/ # uptime
 22:39:47 up 9 min,  0 users,  load average: 0.01, 0.01, 0.00
/ # free
              total        used        free      shared  buff/cache   available
Mem:        16339432       904824      13195568         1616     2239040     15146012
Swap:        4194304           0         4194304
/ # ls -l /
total 40
drwxr-xr-x  2 root    root      12288 Jul 17 18:30 bin
drwxr-xr-x  5 root    root        360 Oct  4 22:39 dev
drwxr-xr-x  1 root    root      4096 Oct  4 22:39 etc
drwxr-xr-x  2 nobody  nobody    4096 Jul 17 18:30 home
drwxr-xr-x  2 root    root      4096 Jul 17 18:30 lib
lrwxrwxrwx  1 root    root        3 Jul 17 18:30 lib64 -> lib
dr-xr-xr-x 433 root    root        0 Oct  4 22:39 proc
drwx----- 1 root    root     4096 Oct  4 22:39 root
dr-xr-xr-x 11 root    root        0 Oct  4 22:39 sys
drwxrwxrwt  2 root    root     4096 Jul 17 18:30 tmp
drwxr-xr-x  4 root    root     4096 Jul 17 18:30 usr
drwxr-xr-x  4 root    root     4096 Jul 17 18:30 var
/ # |
```

6)

```
C:\Users\lauty>docker ps -a
CONTAINER ID   IMAGE     COMMAND                  CREATED          STATUS          PORTS          NAMES
e82d42b5af07   busybox   "sh"                    About a minute ago   Exited (127) 52 seconds ago           keen_swanson
25922fdea02f    busybox   "echo 'Hola Mundo'"    3 minutes ago      Exited (0) 3 minutes ago             thirsty_rhod
es
f70224a3f017   busybox   "sh"                    4 minutes ago       Exited (0) 4 minutes ago             xenodochial_
galileo
232dd4be16dd   busybox   "sh"                    5 minutes ago       Exited (0) 5 minutes ago             relaxed_jang

C:\Users\lauty>docker rm keen_swanson
keen_swanson

C:\Users\lauty>docker ps -a
CONTAINER ID   IMAGE     COMMAND                  CREATED          STATUS          PORTS          NAMES
25922fdea02f    busybox   "echo 'Hola Mundo'"    3 minutes ago      Exited (0) 3 minutes ago             thirsty_rhodes
f70224a3f017   busybox   "sh"                    5 minutes ago       Exited (0) 4 minutes ago             xenodochial_galileo
232dd4be16dd   busybox   "sh"                    5 minutes ago       Exited (0) 5 minutes ago             relaxed_jang

C:\Users\lauty>
```

```
C:\Users\lauty>docker container prune
WARNING! This will remove all stopped containers.
Are you sure you want to continue? [y/N] y
Deleted Containers:
25922fdea02ff475716c8f5954bf139abe81d78c084480ae58e45929fb05864d
f70224a3f017259ac493c775201395720d45d434d6209f97513120a6042831d8
232dd4be16dda4429333faf5e83f15c691f2a0ef0eb2962d2d9e9706471386b5





Total reclaimed space: 0B

C:\Users\lauty>docker ps -a
CONTAINER ID   IMAGE     COMMAND                  CREATED          STATUS          PORTS          NAMES
```

7)

```
Start a build
PS C:\Users\lauty\Documents\Facultad\Ing Software 3\Api\SimpleWebAPI> docker build -t mywebapi .
[+] Building 27.3s (18/18) FINISHED                                docker:default
=> [internal] load build definition from Dockerfile                0.0s
=> => transferring dockerfile: 810B                                0.0s
=> [internal] load .dockerignore                                  0.0s
=> => transferring context: 2B                                       0.0s
=> [internal] load metadata for mcr.microsoft.com/dotnet/sdk:7.0  1.7s
=> [internal] load metadata for mcr.microsoft.com/dotnet/aspnet:7.0 1.9s
=> [build 1/7] FROM mcr.microsoft.com/dotnet/sdk:7.0@sha256:2dd6fa19392967b26d59228af0ec481c652b98346ced56a4db1c664 16.8s
=> => resolve mcr.microsoft.com/dotnet/sdk:7.0@sha256:2dd6fa19392967b26d59228af0ec481c652b98346ced56a4db1c66416b4c947f 0.0s
=> => sha256:2dd6fa19392967b26d59228af0ec481c652b98346ced56a4db1c66416b4c947f 1.79kB / 1.79kB 0.0s
=> => sha256:4da9df9f77f86ae7380a41332b838118f25b96eb27c4ac776325b285a331be0 2.01kB / 2.01kB 0.0s
=> => sha256:7dbc1adf280e1aa588c033eaa746aad6b327ee16be705740f81741f5e6945c86 31.42MB / 31.42MB 3.0s
=> => sha256:969d48310aaa1579d8f4f4016de95508e456e5ad40a6ea7317ece466ada626e0 14.97MB / 14.97MB 2.0s
=> => sha256:1c5a65799405c54dbf710180bd7381f9012b952434130af1ccb14f7a36674581 5.28kB / 5.28kB 0.0s
=> => sha256:2194c6af68612e5f92a605b2ff1f203b3d8998cb67144a4bfff374050854daf38 32.45MB / 32.45MB 2.3s
=> => sha256:98003354b5affced784d6e1ea8130fc9a6417e4c7745be98a95f908fde955a2a 153B / 153B 2.2s
=> => sha256:a5db88be08caa99f41a71144018a814ad2b336546c3d145204f52ae93f95b6e7 10.12MB / 10.12MB 3.2s
=> => sha256:24ab60b48e57071e6e0782f2b63cbd8ee23520592bcec121000d3a0de6c9abc3 25.37MB / 25.37MB 3.9s
=> => extracting sha256:7dbc1adf280e1aa588c033eaa746aad6b327ee16be705740f81741f5e6945c86 1.4s
=> => sha256:0f0942e0643ed250f1b14a818ff8980a05b2557cd20e72a559cacc482dc37025 180.95MB / 180.95MB 13.6s
=> => sha256:01dbb2a1b9268bdf7c8a0280e5919b0e5ea27dc85aece94c9f962ae317810919 13.90MB / 13.90MB 4.8s
=> => extracting sha256:969d48310aaa1579d8f4f4016de95508e456e5ad40a6ea7317ece466ada626e0 0.2s
=> => extracting sha256:2194c6af68612e5f92a605b2ff1f203b3d8998cb67144a4bfff374050854daf38 0.4s
=> => extracting sha256:a5db88be08caa99f41a71144018a814ad2b336546c3d145204f52ae93f95b6e7 20.3s
=> => extracting sha256:24ab60b48e57071e6e0782f2b63cbd8ee23520592bcec121000d3a0de6c9abc3 0.9s
=> => extracting sha256:0f0942e0643ed250f1b14a818ff8980a05b2557cd20e72a559cacc482dc37025 2.8s
=> => extracting sha256:01dbb2a1b9268bdf7c8a0280e5919b0e5ea27dc85aece94c9f962ae317810919 0.3s
=> [base 1/2] FROM mcr.microsoft.com/dotnet/aspnet:7.0@sha256:933ae169296fe093776749cc47fd60e0a6e85bde607651a3fc6cd9 5.3s
=> => resolve mcr.microsoft.com/dotnet/aspnet:7.0@sha256:933ae169296fe093776749cc47fd60e0a6e85bde607651a3fc6cd97bb5b 0.0s
=> => sha256:969d48310aaa1579d8f4f4016de95508e456e5ad40a6ea7317ece466ada626e0 14.97MB / 14.97MB 2.0s
=> => sha256:2194c6af68612e5f92a605b2ff1f203b3d8998cb67144a4bfff374050854daf38 32.45MB / 32.45MB 2.4s
=> => sha256:933ae169296fe093776749cc47fd60e0a6e85bde607651a3fc6cd97bb5b1ce0 1.79kB / 1.79kB 0.0s
=> => sha256:ddd5b0406dfebfac2b6a382fab3f3b100fa12ff799b398c0209a954ae71c8fbd 1.37kB / 1.37kB 0.0s
=> => sha256:a49087cf895281bc3a723d0c9953228b144bf71ca62696d5d018a39ddcb40b8 2.36kB / 2.36kB 0.0s
=> => sha256:7dbc1adf280e1aa588c033eaa746aad6b327ee16be705740f81741f5e6945c86 31.42MB / 31.42MB 3.0s
=> => sha256:98003354b5affced784d6e1ea8130fc9a6417e4c7745be98a95f908fde955a2a 153B / 153B 2.2s
=> => sha256:a5db88be08caa99f41a71144018a814ad2b336546c3d145204f52ae93f95b6e7 10.12MB / 10.12MB 3.2s
=> => extracting sha256:7dbc1adf280e1aa588c033eaa746aad6b327ee16be705740f81741f5e6945c86 1.4s
=> => extracting sha256:969d48310aaa1579d8f4f4016de95508e456e5ad40a6ea7317ece466ada626e0 0.2s
=> => extracting sha256:2194c6af68612e5f92a605b2ff1f203b3d8998cb67144a4bfff374050854daf38 0.4s
=> => extracting sha256:98003354b5affced784d6e1ea8130fc9a6417e4c7745be98a95f908fde955a2a 0.0s
=> => extracting sha256:a5db88be08caa99f41a71144018a814ad2b336546c3d145204f52ae93f95b6e7 0.1s
=> [internal] load build context                                  0.0s
=> => transferring context: 83.8kB                                0.0s
=> [base 2/2] WORKDIR /app                                       0.3s
=> [final 1/2] WORKDIR /app                                       0.1s
=> [build 2/7] WORKDIR /src                                       0.5s
=> [build 3/7] COPY [SimpleWebAPI/SimpleWebAPI.csproj, SimpleWebAPI/] 0.0s
=> [build 4/7] RUN dotnet restore "SimpleWebAPI/SimpleWebAPI.csproj" 3.5s
=> [build 5/7] COPY . .                                           0.0s
=> [build 6/7] WORKDIR /src/SimpleWebAPI                         0.0s
=> [build 7/7] RUN dotnet build "SimpleWebAPI.csproj" -c Release -o /app/build 2.8s
=> [publish 1/1] RUN dotnet publish "SimpleWebAPI.csproj" -c Release -o /app/publish /p:UseAppHost=false 1.6s
```

```
PS C:\Users\lauty\Documents\Facultad\Ing Software 3\Api\SimpleWebAPI> docker images
REPOSITORY          TAG             IMAGE ID        CREATED         SIZE
mywebapi            latest          95846c1c66fd   55 seconds ago 216MB
busybox             latest          a416a98b71e2   2 months ago   4.26MB
PS C:\Users\lauty\Documents\Facultad\Ing Software 3\Api\SimpleWebAPI> docker run mywebapi
info: Microsoft.Hosting.Lifetime[14]
      Now listening on: http://[::]:80
info: Microsoft.Hosting.Lifetime[0]
      Application started. Press Ctrl+C to shut down.
info: Microsoft.Hosting.Lifetime[0]
      Hosting environment: Production
info: Microsoft.Hosting.Lifetime[0]
      Content root path: /app
```

<input type="checkbox"/>	Name	Image	Status	CPU (%)	Port(s)	Last started	Actions
<input type="checkbox"/>	 zen_meliner ed866f73547	mywebapi	Running	0.04%		22 seconds ago	  


```
Símbolo del sistema
Microsoft Windows [Versión 10.0.22621.2361]
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C:\Users\lauty>docker login
Authenticating with existing credentials...
Login Succeeded

C:\Users\lauty>docker tag mywebapi lautarose/simplewebapi:tp2


C:\Users\lauty>docker push lautarose/simplewebapi:tp2
The push refers to repository [docker.io/lautarose/simplewebapi]
abd280b76e68: Pushed
5f70bf18a086: Pushed
aa8591a577ec: Pushed
621ac519e7ac: Pushed
13073704c26c: Pushed
2429ab113701: Pushed
7a17569cab26: Pushed
10764c37bcbc: Pushed
tp2: digest: sha256:29d16b915445b5b1723a036bb6d6f1b99e21dffd2d65f98af64a1f545e6597f9 size: 1996

C:\Users\lauty>
```

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 **lautarose**

lautarose

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simplewebapi

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 **lautarose / simplewebapi**

Description

This repository does not have a description 

 Last pushed: a few seconds ago

Docker commands



To push a new tag to this repository:

`docker push lautarose/simplewebapi:tagname`

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This repository contains 1 tag(s).

Tag	OS	Type	Pulled	Pushed
 tp2		Image	---	a few seconds ago


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Repository overview 

An overview describes what your image does and how to run it. It displays in [the public view of your repository](#).

[Add overview](#)

```

FROM mcr.microsoft.com/dotnet/aspnet:7.0 AS base
WORKDIR /app
EXPOSE 80
EXPOSE 443
EXPOSE 5254

FROM mcr.microsoft.com/dotnet/sdk:7.0 AS build
WORKDIR /src
COPY ["SimpleWebAPI/SimpleWebAPI.csproj", "SimpleWebAPI/"]
RUN dotnet restore "SimpleWebAPI/SimpleWebAPI.csproj"
COPY . .
WORKDIR "/src/SimpleWebAPI"
RUN dotnet build "SimpleWebAPI.csproj" -c Release -o /app/build

FROM build AS publish
RUN dotnet publish "SimpleWebAPI.csproj" -c Release -o /app/publish
/p:UseAppHost=false

FROM base AS final
WORKDIR /app
COPY --from=publish /app/publish .
ENTRYPOINT ["dotnet", "SimpleWebAPI.dll"]
#CMD ["/bin/bash"]

```

La primera línea “FROM” indica cual es la imagen base de nuestro dockerfile.

“AS” se utiliza para nombrar esa imagen base.

“WORKDIR” establece el directorio de trabajo dentro del contenedor en este caso es /app. Todas las instrucciones siguientes se ejecutarán en este directorio.

“EXPOSE” se utiliza para exponer los puertos, en este caso los puertos 80, 443 y 5254.

“FROM mcr.microsoft.com/dotnet/sdk:7.0 AS build” esta línea establece una nueva etapa de construcción (build) y utiliza la imagen “mcr.microsoft.com/dotnet/sdk:7.0” como base.

“ COPY ["SimpleWebAPI/SimpleWebAPI.csproj", "SimpleWebAPI/"] ” Copia el archivo de proyecto (SimpleWebAPI.csproj) al directorio SimpleWebAPI/ en el contenedor. Esto se hace antes de restaurar las dependencias para aprovechar la caché de Docker y evitar la reinstalación de las dependencias si no han cambiado.

“ RUN dotnet restore "SimpleWebAPI/SimpleWebAPI.csproj" “ Restaura las dependencias del proyecto usando dotnet restore.

“ COPY . . “ Copia todos los archivos del contexto de construcción (el directorio donde resides cuando ejecutas el comando docker build) al directorio de trabajo actual en el contenedor (/src).

“ RUN dotnet build "SimpleWebAPI.csproj" -c Release -o /app/build “ Compila la aplicación en modo Release y la salida se coloca en el directorio /app/build dentro del contenedor.

“ FROM build AS publish “ Crea una nueva etapa llamada publish basada en la etapa de construcción anterior (build).

“RUN dotnet publish "SimpleWebAPI.csproj" -c Release -o /app/publish/p:UseAppHost=false” Publica la aplicación en el directorio /app/publish dentro del contenedor. La opción /p:UseAppHost=false se usa para aplicaciones autónomas (self-contained) y significa que no se utilizará un ejecutable de host para la publicación.

“ FROM base AS final “ Crea una última etapa llamada final basada en la etapa base inicial (base).

“ COPY --from=publish /app/publish . “ Copia los archivos publicados desde la etapa publish al directorio de trabajo actual en la etapa final.

“ ENTRYPOINT ["dotnet", "SimpleWebAPI.dll"] “ Establece el punto de entrada para el contenedor. Cuando el contenedor se inicie, ejecutará el archivo SimpleWebAPI.dll usando dotnet.

“ #CMD ["/bin/bash"] “ Esta línea está comentada (#) y no se utilizará. Si se necesita utilizar una shell para depurar se puede descomentar.

8)

```
PS C:\Users\lauty\Documents\Facultad\Ing Software 3\Api\SimpleWebAPI> docker run --name myapi -d mywebapi
b87ef235fc028fcd44118a24b97cee7fed36fdf02261e374e3fa77397bb149
PS C:\Users\lauty\Documents\Facultad\Ing Software 3\Api\SimpleWebAPI> docker ps
CONTAINER ID   IMAGE          COMMAND                  CREATED        STATUS        PORTS                               NAMES
b87ef235fc02   mywebapi      "dotnet SimpleWebAPI..." 9 seconds ago  Up 8 seconds  80/tcp, 443/tcp, 5254/tcp          myapi
PS C:\Users\lauty\Documents\Facultad\Ing Software 3\Api\SimpleWebAPI> docker kill myapi
myapi
PS C:\Users\lauty\Documents\Facultad\Ing Software 3\Api\SimpleWebAPI> docker ps
CONTAINER ID   IMAGE          COMMAND                  CREATED        STATUS        PORTS                               NAMES
PS C:\Users\lauty\Documents\Facultad\Ing Software 3\Api\SimpleWebAPI> |
```

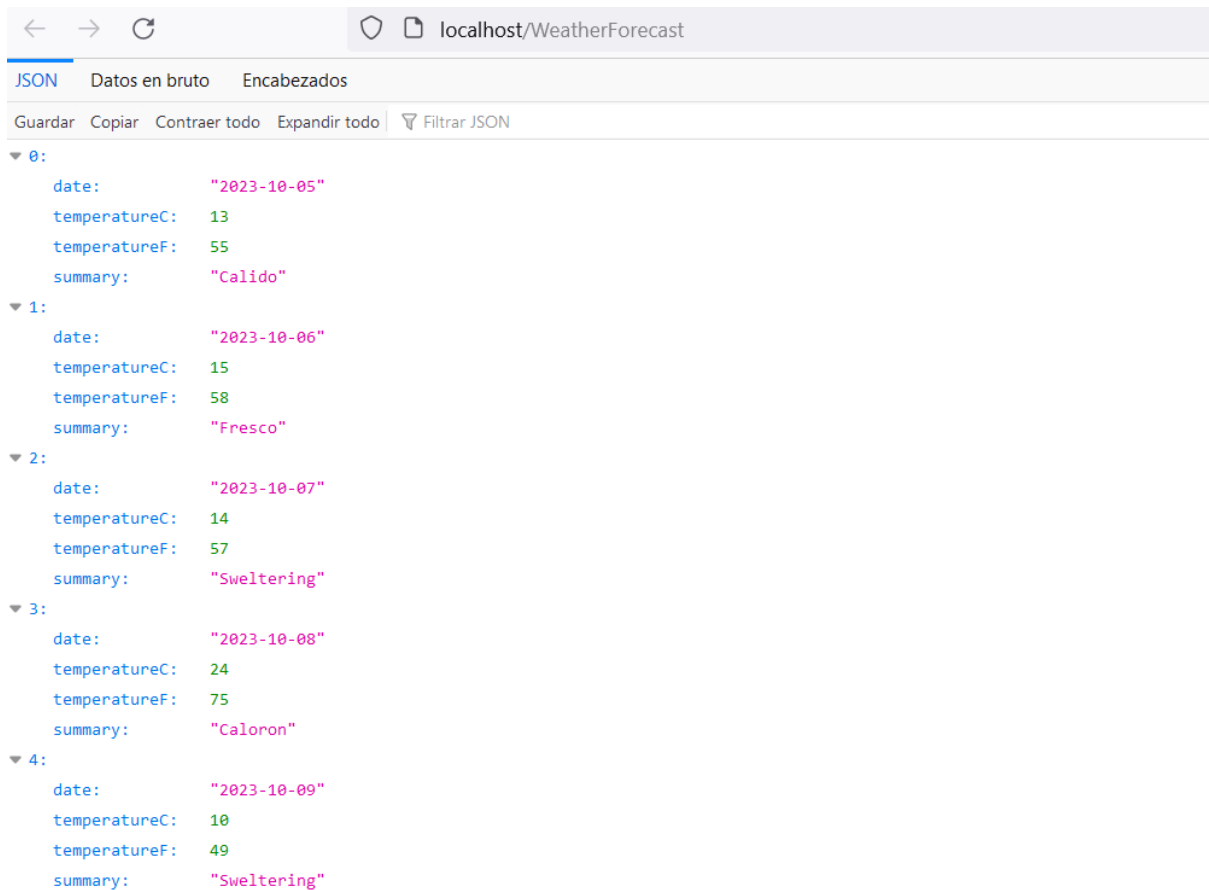
No se puede conectar

Ocurrió un error al conectarse a localhost.

- El sitio puede no estar disponible temporalmente o estar sobrecargado. Intente nuevamente en unos momentos.
- Si no puede cargar ninguna página, verifique la conexión de su computadora a la red.
- Si su computadora o red están protegidas por un firewall o proxy, asegúrese que Firefox tiene permiso para acceder a la web.

Intente nuevamente

```
Windows PowerShell
PS C:\Users\lauty\Documents\Facultad\Ing Software 3\Api\SimpleWebAPI> docker run --name myapi -d -p 80:80 -p 5254:5254 mywebapi
e452e1b859e83e00f6470008006078b1cd9cac8634c3a0f508f2faa4fe513f2d
PS C:\Users\lauty\Documents\Facultad\Ing Software 3\Api\SimpleWebAPI> docker ps
CONTAINER ID   IMAGE          COMMAND                  CREATED        STATUS        PORTS
e452e1b859e8   mywebapi      "dotnet SimpleWebAPI..." 4 seconds ago  Up 3 seconds  0.0.0.0:80->80/tcp, 0.0.0.0:5254->5254/tcp
, 443/tcp      myapi
PS C:\Users\lauty\Documents\Facultad\Ing Software 3\Api\SimpleWebAPI> |
```





En este caso lo que ocurre es que con el comando “-p” exponemos los puertos del contenedor hacia los puertos del host. Por lo tanto lo que se encuentra por ejemplo en el puerto 80 del contenedor se va a redireccionar al puerto 80 de nuestra pc.

9)

```
PS C:\Users\lauty\Documents\Facultad\Ing Software 3\Api\SimpleWebAPI> docker run -it --rm -p 80:80 mywebapi
root@e6cbb8b77fd3:/app# dotnet SimpleWebAPI.dll
info: Microsoft.Hosting.Lifetime[14]
      Now listening on: http://[::]:80
info: Microsoft.Hosting.Lifetime[0]
      Application started. Press Ctrl+C to shut down.
info: Microsoft.Hosting.Lifetime[0]
      Hosting environment: Production
info: Microsoft.Hosting.Lifetime[0]
      Content root path: /app
warn: Microsoft.AspNetCore.HttpsPolicy.HttpsRedirectionMiddleware[3]
      Failed to determine the https port for redirect.
```

```
Windows PowerShell
PS C:\Users\lauty\temp> docker run -it --rm -p 80:80 -v C:/Users/lauty/temp:/var/temp mywebapi
root@d5064be8f254:/app# ls -l /var/temp
total 0
root@d5064be8f254:/app# touch /var/temp/hola.txt
root@d5064be8f254:/app# ls -l /var/temp
total 0
-rw-r--r-- 1 root root 0 Oct  4 23:58 hola.txt
root@d5064be8f254:/app#
```

Nombre	Fecha de modificación	Tipo	Tamaño
 hola.txt	4/10/2023 20:58	Documento de tex...	0 KB

11)

```
psql (9.4.26)
Type "help" for help.

postgres=# \l

               List of databases
  Name      | Owner   | Encoding | Collate  | Ctype    | Access privileges
-----+-----+-----+-----+-----+-----
 postgres   | postgres | UTF8      | en_US.utf8 | en_US.utf8 | =c/postgres
 template0  | postgres | UTF8      | en_US.utf8 | en_US.utf8 | postgres=CTc/postgres
 template1  | postgres | UTF8      | en_US.utf8 | en_US.utf8 | =c/postgres
              postgres=CTc/postgres
(3 rows)

postgres=# create database test;
CREATE DATABASE
postgres=# \connect test
You are now connected to database "test" as user "postgres".
test=# create table tabla_a (mensaje varchar(50));
CREATE TABLE
test=# insert into tabla_a (mensaje) values('Hola mundo!');
INSERT 0 1
test=# select * from tabla_a
test-# ;
      mensaje
-----
 Hola mundo!
(1 row)
```

“ docker run --name my-postgres -e POSTGRES_PASSWORD=mysecretpassword -v \$HOME/.postgres:/var/lib/postgresql/data -p 5432:5432 -d postgres:9.4 “ Con este comando, se crea un contenedor de PostgreSQL.

“docker exec -it my-postgres /bin/bash” Con este comando, se ingresa en una sesión interactiva dentro del contenedor de PostgreSQL, lo que te permite ejecutar comandos y realizar operaciones dentro del entorno del contenedor.

12)

```
PS C:\Users\lauty> docker run --name=mysql1 -e MYSQL_ROOT_PASSWORD=password -v $HOME/.sqlserver:/var/lib/mysql -d mysql/
mysql-server
cc33784643686628ea51f5c14d43bd464a50b3d50487d56fe90c7ddfcbbc1469
PS C:\Users\lauty> docker exec -it mysql1 mysql -u root -p
Enter password:
Welcome to the MySQL monitor.  Commands end with ; or \g.
Your MySQL connection id is 8
Server version: 8.0.32 MySQL Community Server - GPL

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owners.

Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

mysql> |
```

```
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affiliates. Other names may be trademarks of their respective
owners.

Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

mysql> create database test;
Query OK, 1 row affected (0.01 sec)

mysql> use test
Database changed
mysql> create table tabla_a (mensaje varchar(50));
Query OK, 0 rows affected (0.01 sec)

mysql> insert into tabla_a (mensaje) values('Hola mundo!');
Query OK, 1 row affected (0.00 sec)

mysql> select * from tabla_a
    -> ;
+-----+
| mensaje |
+-----+
| Hola mundo! |
+-----+
1 row in set (0.00 sec)
```

