

# FUNDAMENTOS DE BASES DE DATOS 2024-1

**Profesor:** Gerardo Avilés Rosas

## Bitácora Práctica 01

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1. **Sistema Operativo y versión:** Windows 10.

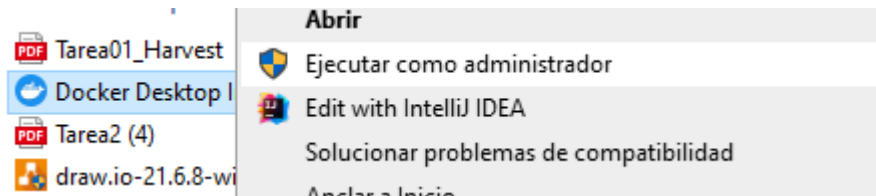
2. **Distribución:** -

3. **Versión de la instalación:** 4.22.1

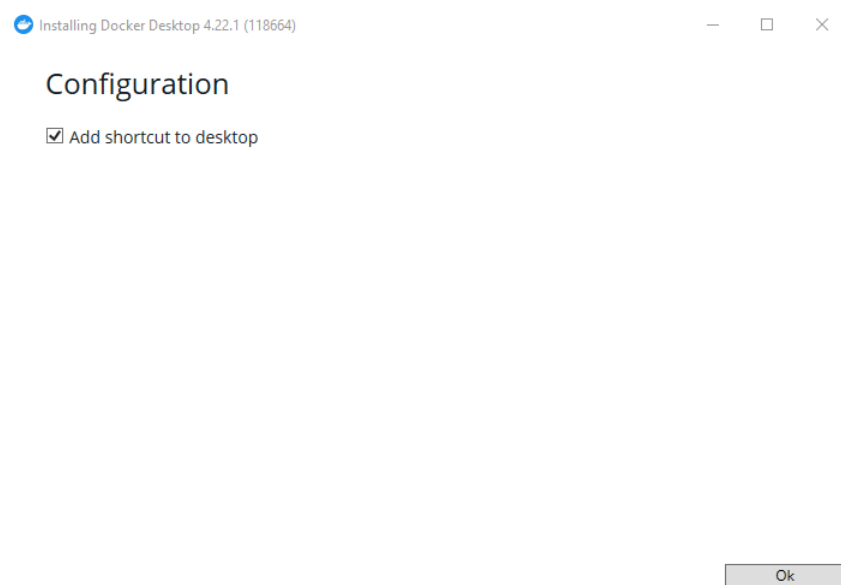
4. **Tiempo requerido:** 38 minutos

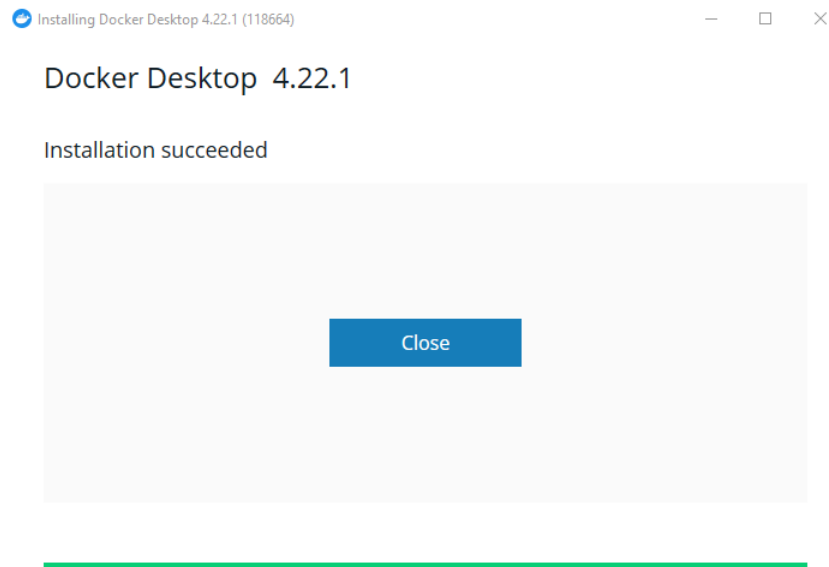
5. **Explicación:**

- Ejecutamos como Administrador el instalador

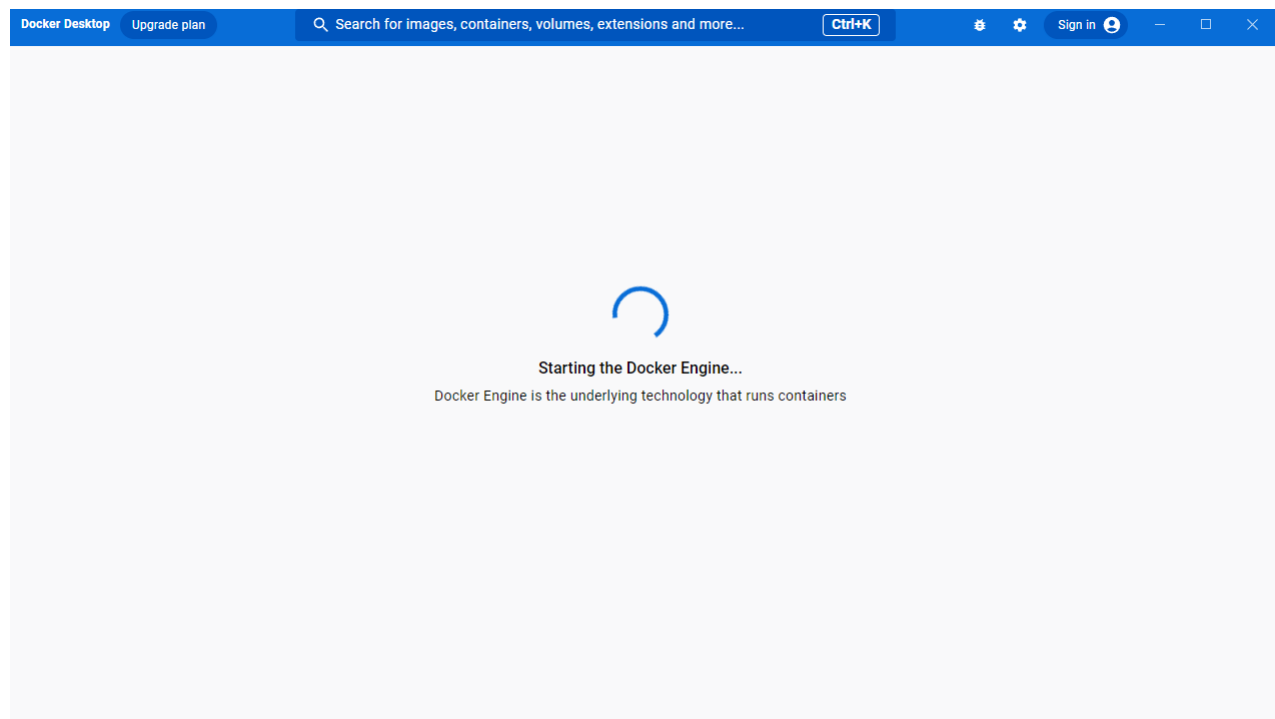


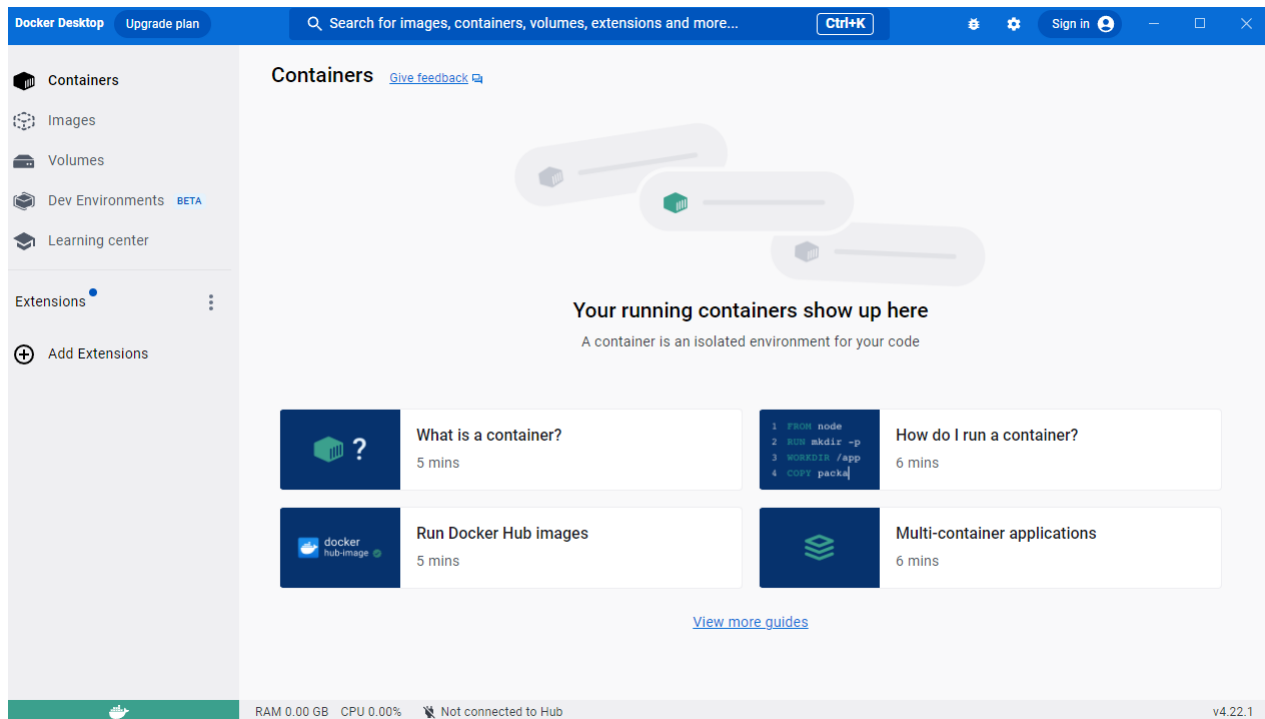
- Confirmamos configuración e instalación





## ■ Iniciamos Docker Desktop





- Comprobamos que Docker esté trabajando

```
Simbolo del sistema
C:\Users\carfa>docker run hello-world
Unable to find image 'hello-world:latest' locally
latest: Pulling from library/hello-world
719385e32844: Pull complete
Digest: sha256:dcba6daec718f547568c562956fa47e1b03673dd010fe6ee58ca806767031d1c
Status: Downloaded newer image for hello-world:latest

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/

C:\Users\carfa>
```

- Descargamos la imagen de postgres

```
Símbolo del sistema - docker pull postgres

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/

C:\Users\carfa>docker pull postgres
Using default tag: latest
latest: Pulling from library/postgres
52d2b7f179e3: Extracting [=====>] 6.783MB/29.12MB
d9c06b35c8a5: Download complete
ec0d4c36c7f4: Download complete
aa8e32a16a69: Download complete
8950a67e90d4: Download complete
1b47429b7c5f: Download complete
a773f7da97bb: Download complete
7bddc9bbcf13: Download complete
60829730fa39: Downloading [=====>] 35.04MB/104.2MB
f3d9c845d2f3: Download complete
cfdc43fe346d: Download complete
576335d55cdb: Download complete
caad4144446c: Download complete
```

```
Símbolo del sistema

https://hub.docker.com/

For more examples and ideas, visit:
https://docs.docker.com/get-started/

C:\Users\carfa>docker pull postgres
Using default tag: latest
latest: Pulling from library/postgres
52d2b7f179e3: Pull complete
d9c06b35c8a5: Pull complete
ec0d4c36c7f4: Pull complete
aa8e32a16a69: Pull complete
8950a67e90d4: Pull complete
1b47429b7c5f: Pull complete
a773f7da97bb: Pull complete
7bddc9bbcf13: Pull complete
60829730fa39: Pull complete
f3d9c845d2f3: Pull complete
cfdc43fe346d: Pull complete
576335d55cdb: Pull complete
caad4144446c: Pull complete
Digest: sha256:a5e89e5f2679863bedef929c4a7ec5d1a2cb3c045f13b47680d86f8701144ed7
Status: Downloaded newer image for postgres:latest
docker.io/library/postgres:latest

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

C:\Users\carfa>
```

- Creamos el contenedor

```
Simbolo del sistema
https://docs.docker.com/get-started/

C:\Users\carfa>docker pull postgres
Using default tag: latest
latest: Pulling from library/postgres
52d2b7f179e3: Pull complete
d9c06b35c8a5: Pull complete
ec0d4c36c7f4: Pull complete
aa8e32a16a69: Pull complete
8950a67e90d4: Pull complete
1b47429b7c5f: Pull complete
a773f7da97bb: Pull complete
7bddc9bbcf13: Pull complete
60829730fa39: Pull complete
f3d9c845d2f3: Pull complete
cfc4d3fe346d: Pull complete
576335d55cdb: Pull complete
caad4144446c: Pull complete
Digest: sha256:a5e89e5f2679863bedef929c4a7ec5d1a2cb3c045f13b47680d86f8701144ed7
Status: Downloaded newer image for postgres:latest
docker.io/library/postgres:latest

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

C:\Users\carfa>docker run -d --name postgres -e POSTGRES_PASSWORD= -p 5432:5432 postgres
a039c8fe0b6f00c0de9c889d271ef8cb41051534d0aa62e22401013f5d0e6ca4

C:\Users\carfa>
```

- Nos conectamos a PostgreSQL

```
Simbolo del sistema - docker run -it --link postgres:postgres postgres psql -h postgres -U postgres
programa o archivo por lotes ejecutable.

C:\Users\carfa>docker stop a039c8fe0b6f
a039c8fe0b6f

C:\Users\carfa>docker run -d --name postgres -e POSTGRES_PASSWORD= -p 5432:5432 postgres
docker: Error response from daemon: Conflict. The container name "/postgres" is already in use by container "a039c8fe0b6f00c0de9c889d271ef8cb41051534d0aa62e22401013f5d0e6ca4". You have to remove (or rename) that container to be able to reuse that name.
See 'docker run --help'.

C:\Users\carfa>docker stop a039c8fe0b6f
a039c8fe0b6f

C:\Users\carfa>docker run -it --link postgres:postgres postgres psql -h postgres -U postgres
docker: Error response from daemon: Cannot link to a non running container: /postgres AS /vigorous_fermi/postgres.

C:\Users\carfa>docker start a039c8fe0b6f
a039c8fe0b6f

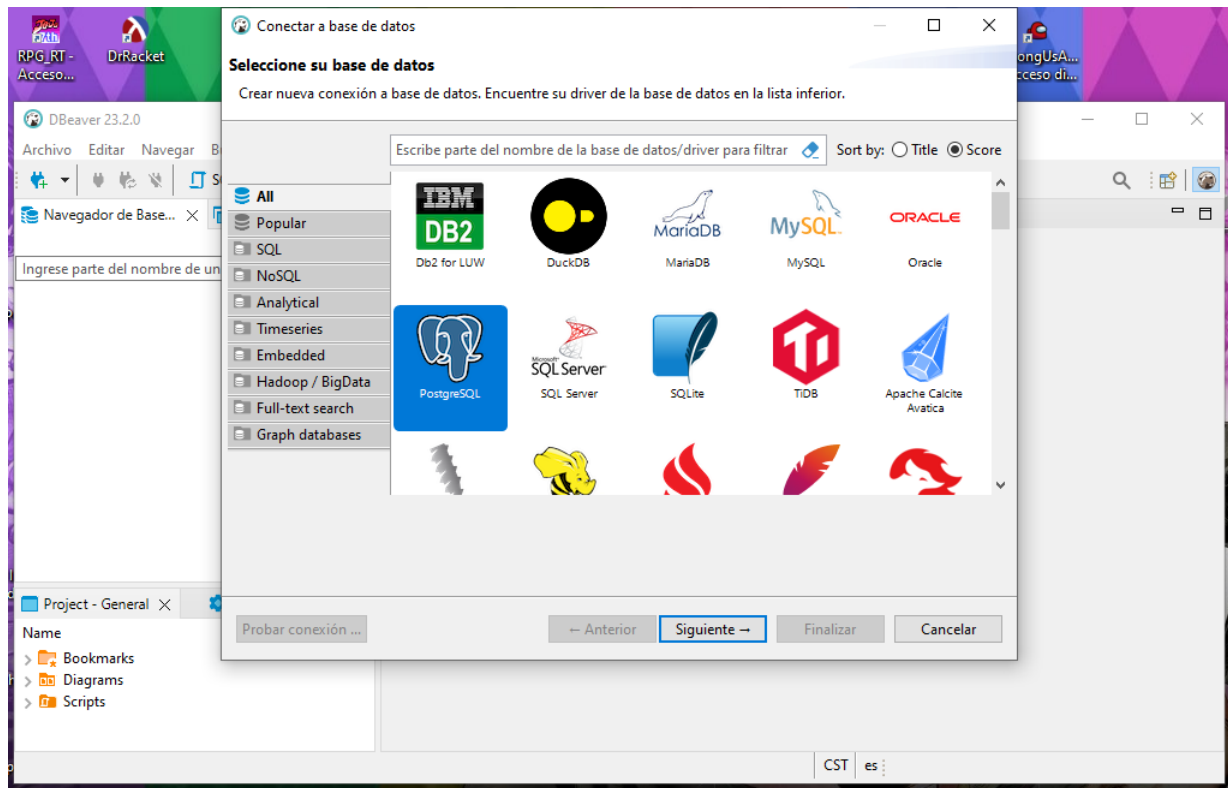
C:\Users\carfa>docker run -it --link postgres:postgres postgres psql -h postgres -U postgres
Password for user postgres:
psql (15.4 (Debian 15.4-1.pgdg120+1))
Type "help" for help.

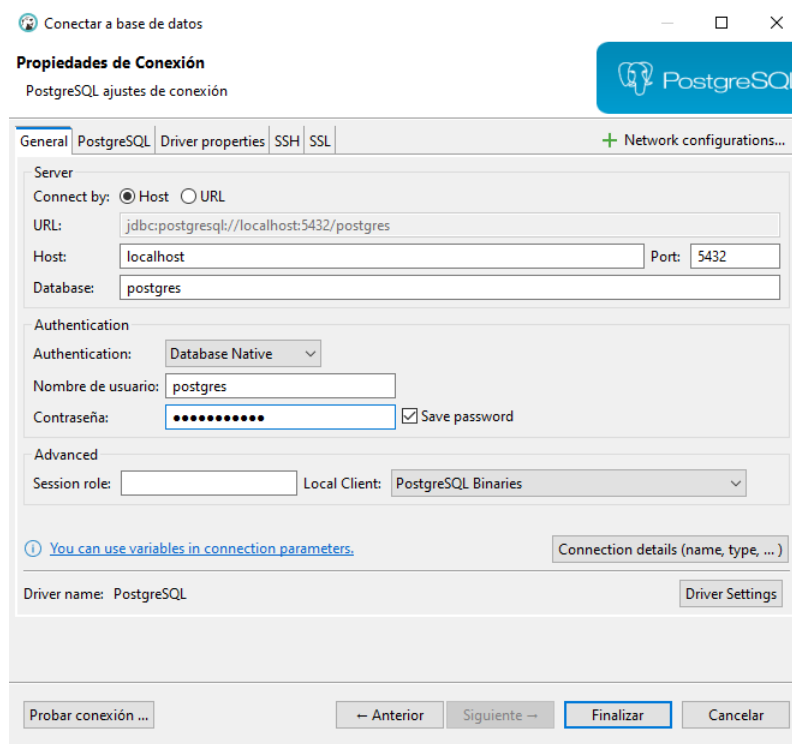
postgres=#
```

- Instalamos DBEaver



- Seleccionamos PostgreSQL e ingresamos nuestra contraseña





6. **Comentarios y los problemas a los que te enfrentaste en la instalación:** La primera vez que intenté la instalación, tenía problemas con el internet de mi casa, por lo que tomó alrededor de 1 hora y media poder llegar al comando `docker run hello-world` Y para la línea `docker run -d --name postgres -e POSTGRES_PASSWORD=mysecretpassword -p 5432:5432 postgres` La terminal dejó de responder, por lo que decidí cerrarla.
- Para cuando quise retomar la instalación, la terminal marcaba un error con docker; por lo que tuve que desinstalarlo y volverlo a instalar; que es el proceso que se muestra en el inciso anterior.