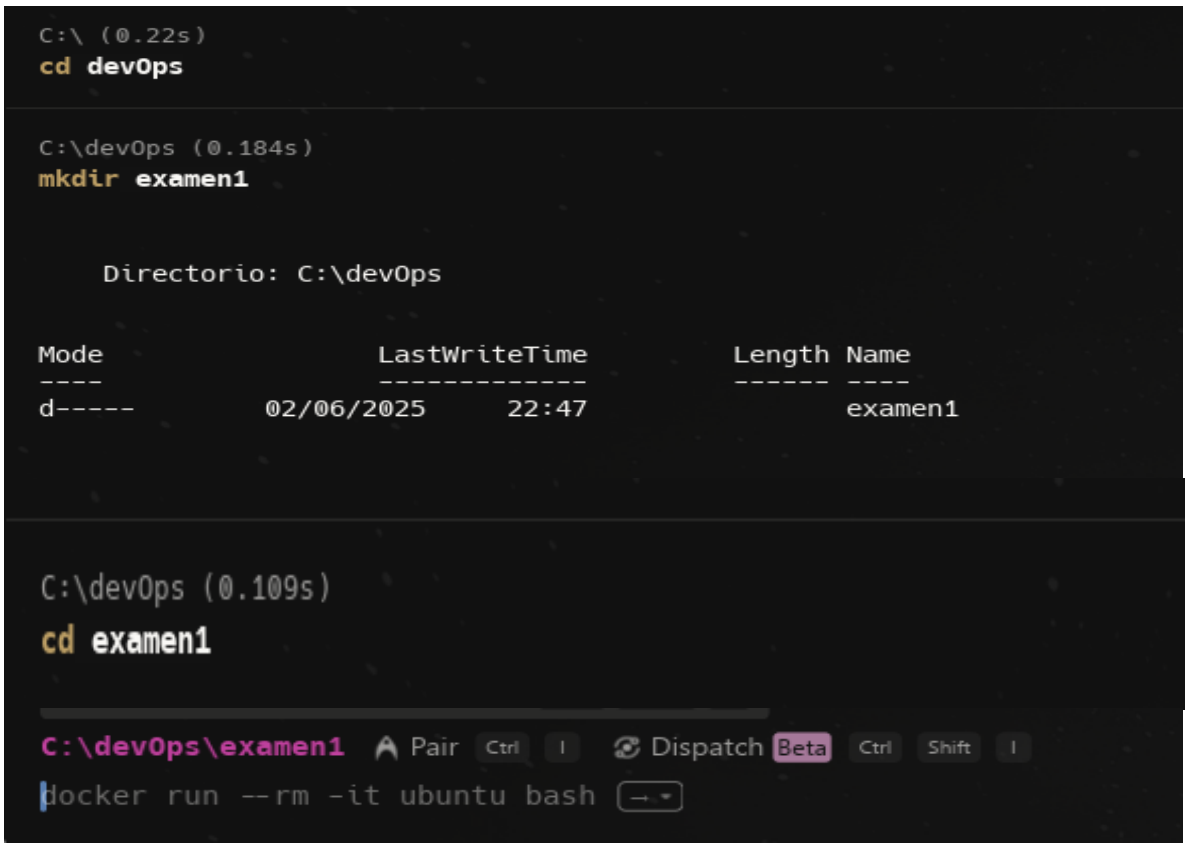
EXAMEN 1 DEVOPS Y DESPLIGUE MODULO IV

Nombre: Gustavo Oropeza Condori

Docente: M.Sc. Juan José Cervantes Avilés

1: Creamos la carpeta de exame1, el volumen y la red



Creamos nuestro volumen de goc-vol:

```
C:\devOps\examen1 (0.262s)
docker volume ls

C:\devOps\examen1 (0.584s)
docker volume create goc-vol
goc-vol

C:\devOps\examen1 (0.259s)
docker volume ls
DRIVER    VOLUME NAME
local     3a2108286c256ed41802c4162ab2dca4a2ff748a152dcb9fd8a1cfa44d9a16f9
local     3fdc407c0bd91ba753161fa6d9af2ff2038384ce9c68e0c7028b7f4e49f15cc7
local     8d722529990d888f1572468487f1fa6263c7043d215138b1d62f9cfa40f753e6
local     9cb6ed3811efbc42d4456a6f34b8ad507af322769a488749e15a37a241ea43bd
local     41da7e1097ce24d21d0aed186eaef156254083d56cd6d9f967b44e2eba7e9a4b
local     57f2efc1c68ddb3a36db4ab29e60f72700df4105dfc0b1cb6f5015105b0b9e07
local     76ee45fc1522ff091769d807a89224b72791454e425ab8657b44e9827ce1b660
local     555a28d31c418f025417da13662e6509ff23b53ebcb77076864d6df2f893315d
local     104416fc1ad77e8b9c8ea0677c6596d50022f455d5af689e925eb9f672b1e24c
local     89057837bafa4e96da70108ba85a63eecb7f10453ff0440e3774bda1d542244c
local     acd336daa49f2e0a221a3b52590fe40d63d5d7f4ad71c7621fb0dc66064251b9
local     b4c50f609a887b75d893a510585e993f3dcc8dab4424fe9cd32f5ad0987ab807
local     b3530de72ec87802d86cdfd3d6e0a9b0dfe368b5f331a3eb53ba003c96575ad0
local     bd839db7af3a8ed381e4dd9d193dacee2feaf195e6e4dc2546fb66a5564f00d1
local     d69fae4631f5c8cf3199fcaa117a5465aa5fdb063f8a55241f765369d1405b3e
local     devops_db
local     e351f26f6dc24d6ca55768a9a8f46e3bfc5b8c0f1da256e2c59b4e34f0acb0a8
local     e83981629c89d43d35d1bc371b7f9594d418773b94d774dc8979374a651ff0ad
local     f29bfd24d7453d8df7efea7c175a7511a8e9e94a9bf8926f4520e3ff74055365
local     goc-vol
```

Creamos nuestra red de goc-red y lo listamos para ver

```
C:\devOps\examen1 (0.875s)
docker network create goc-red
dc80c4edc4e5f898afe005c5e5d74130f9df809d3f46a9e9c334d36ad4a481a2

C:\devOps\examen1 (0.327s)
docker network ls
NETWORK ID     NAME          DRIVER    SCOPE
5d073982a1be   bridge        bridge    local
b4683a26fba9   deposp-red    bridge    local
dc80c4edc4e5   goc-red       bridge    local
0b38e2ce46b0   host          host      local
191e6c96a97c   none          null      local
```

2: Montamos la imagen de postgress

```
C:\devOps\examen1
docker container run -d -p 5432:5432 --name=postgresgoc -e POSTGRES_PASSWORD=PassDocker -v goc-vol:/var/lib/postgresql/data postgres

Unable to find image 'postgres:latest' locally
latest: Pulling from library/postgres
28708ff4e046: Downloading [==========>                                        ]  2.097MB/8.066MB
2bb588ce4e67: Download complete
410cd7ec9a40: Download complete
475b0e32b814: Downloading [====>                                              ]  9.437MB/112.8MB

e7aba16d6a5e: Download complete
89ba8b615fa9: Download complete
82697a7976df: Download complete
7e11eb1421f3: Download complete
3db9b37be7c3: Pull complete
bd1fa28722bb: Download complete
6ce13d85dabe: Pulling fs layer
7c852ebdd63e: Pulling fs layer
```

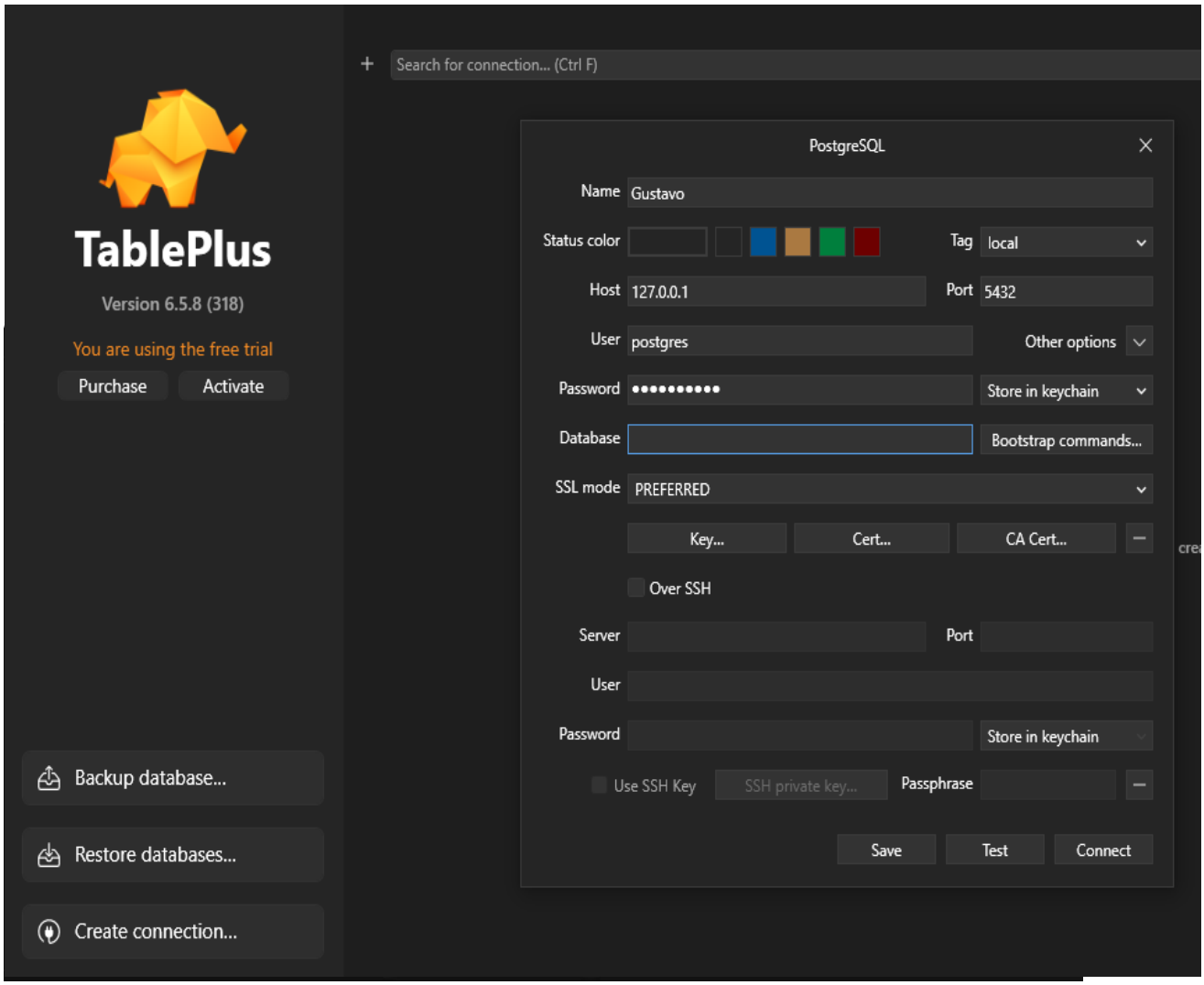
aquí ya va finalizando la descarga de la imagen y también ya está corriendo el contenedor

```
C:\devOps\examen1 (1m 21.82s)
docker container run -d -p 5432:5432 --name=postgresgoc -e POSTGRES_PASSWORD=PassDocker -v goc-vol:/var/lib/postgresql/data postgres

Unable to find image 'postgres:latest' locally
latest: Pulling from library/postgres
28708ff4e046: Pull complete
2bb588ce4e67: Pull complete
410cd7ec9a40: Pull complete
475b0e32b814: Pull complete
e9a82aed48d7: Pull complete
e7aba16d6a5e: Pull complete
89ba8b615fa9: Pull complete
82697a7976df: Pull complete
7e11eb1421f3: Pull complete
3db9b37be7c3: Pull complete
bd1fa28722bb: Pull complete
6ce13d85dabe: Pull complete
7c852ebdd63e: Pull complete
Digest: sha256:6efd0df010dc3cb40d5e33e3ef84acecc5e73161bd3df06029ee8698e5e12c60
Status: Downloaded newer image for postgres:latest
37969363a0cf8cf0966e7f1f4cf2ef7a2609870810bb167683ad898ce033b6ed
```

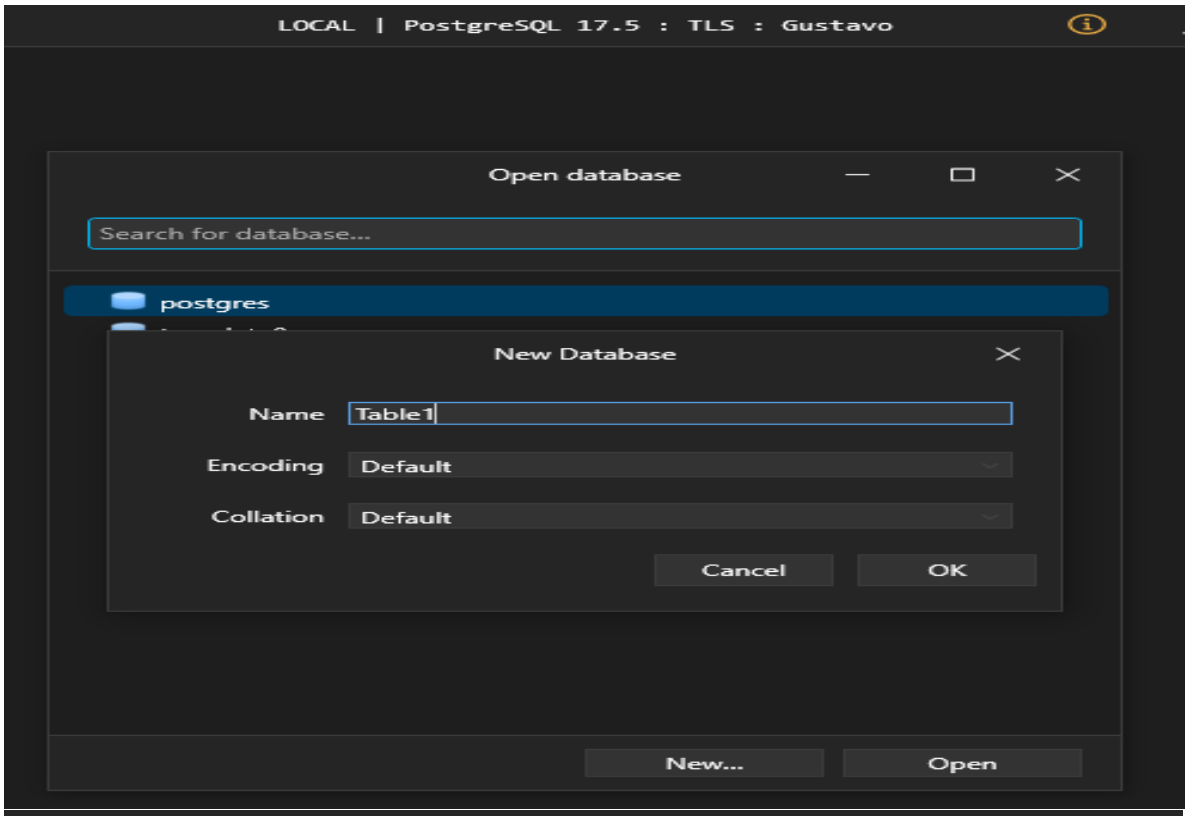
aquí vemos que se está ejecutando el contenedor de postgres

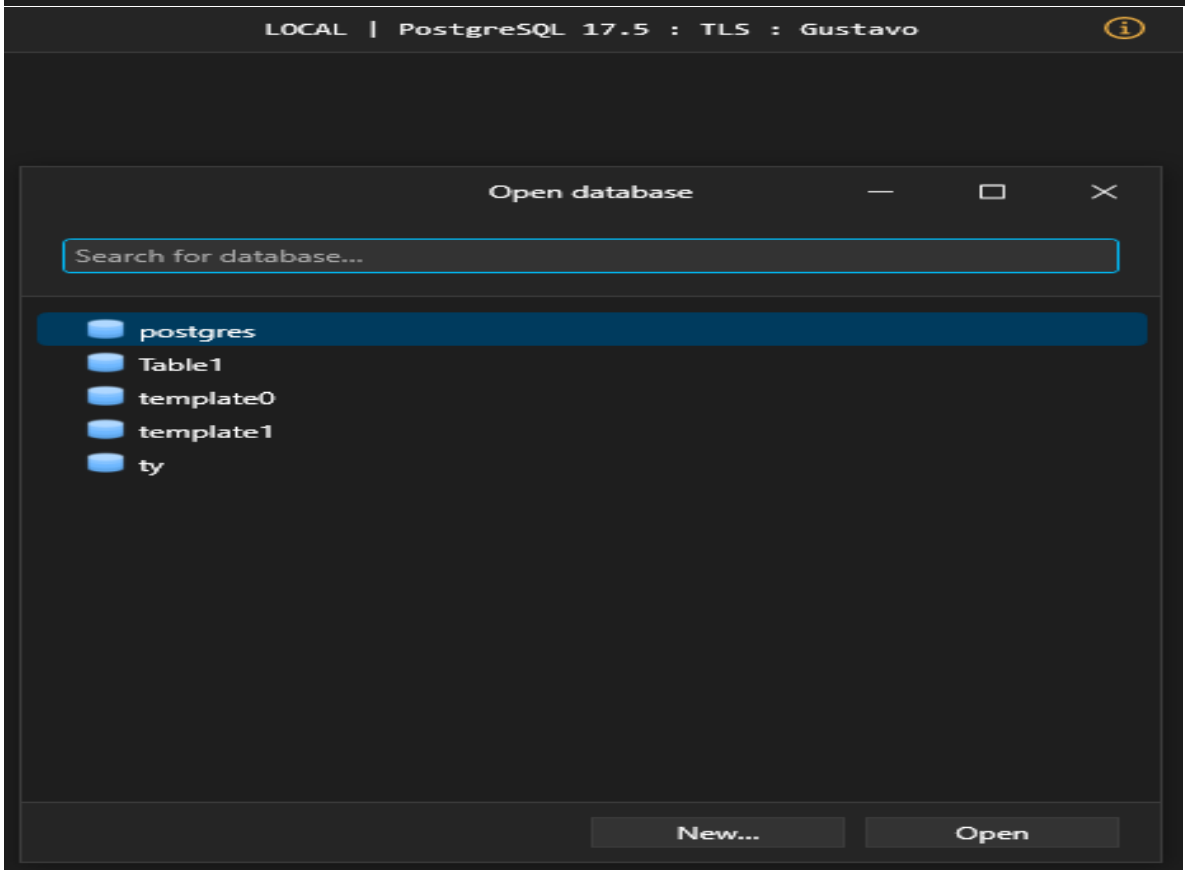
```
C:\devOps\examen1 (0.31s)
docker ps

CONTAINER ID   IMAGE      COMMAND                  CREATED          STATUS          PORTS                    NAMES
37969363a0cf   postgres   "docker-entrypoint.s…"   14 seconds ago   Up 12 seconds   0.0.0.0:5432->5432/tcp   postgresgoc


C:\devOps\examen1 (0.428s)
docker ps -a

CONTAINER ID   IMAGE                COMMAND                  CREATED          STATUS                      PORTS                    NAMES
37969363a0cf   postgres             "docker-entrypoint.s…"   31 seconds ago   Up 30 seconds               0.0.0.0:5432->5432/tcp   postgresgoc
d090b78407e6   phpmyadmin           "/docker-entrypoint.…"   28 hours ago     Exited (255) 10 hours ago   0.0.0.0:8080->80/tcp     charming_blackburn
5c3c01967835   mariadb:10.6.22-jammy   "docker-entrypoint.s…"   30 hours ago     Exited (255) 10 hours ago   0.0.0.0:3306->3306/tcp   devops_db
```

Aquí colocamos toda nuestra credencial

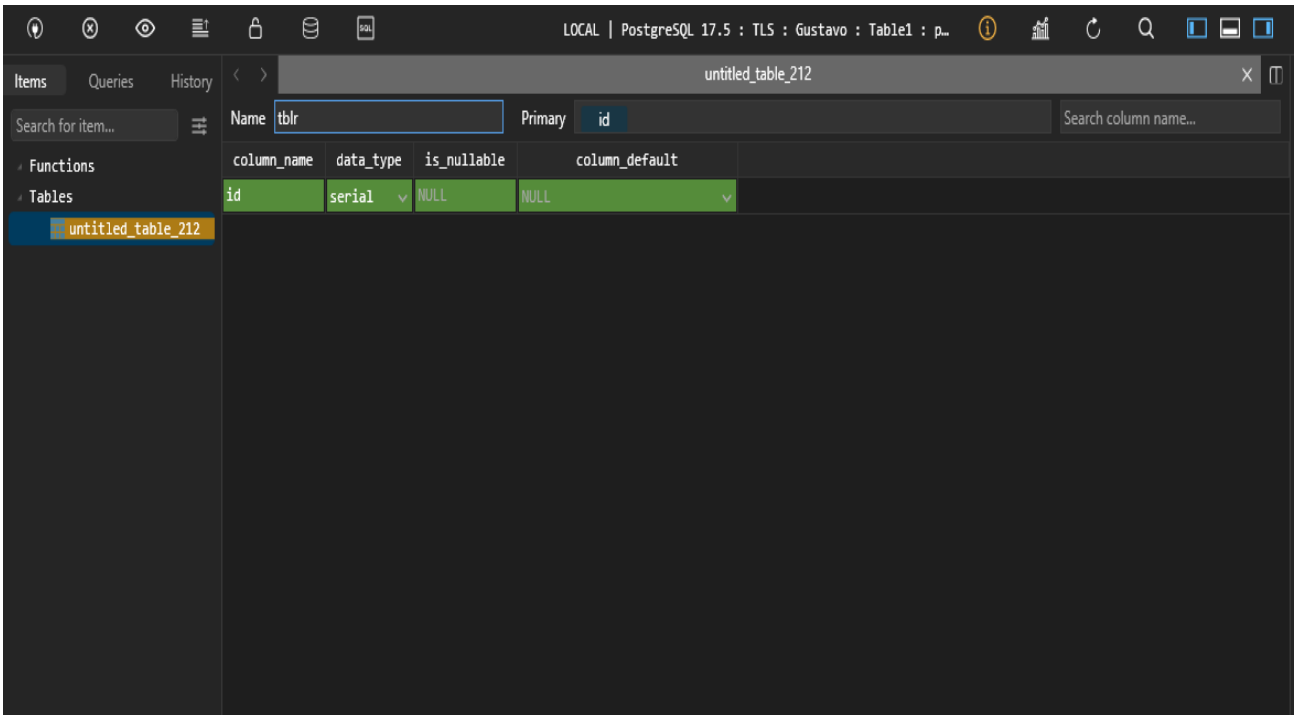


una vez ingresado creamos nuestra base de datos de table1 para hacer las pruebas

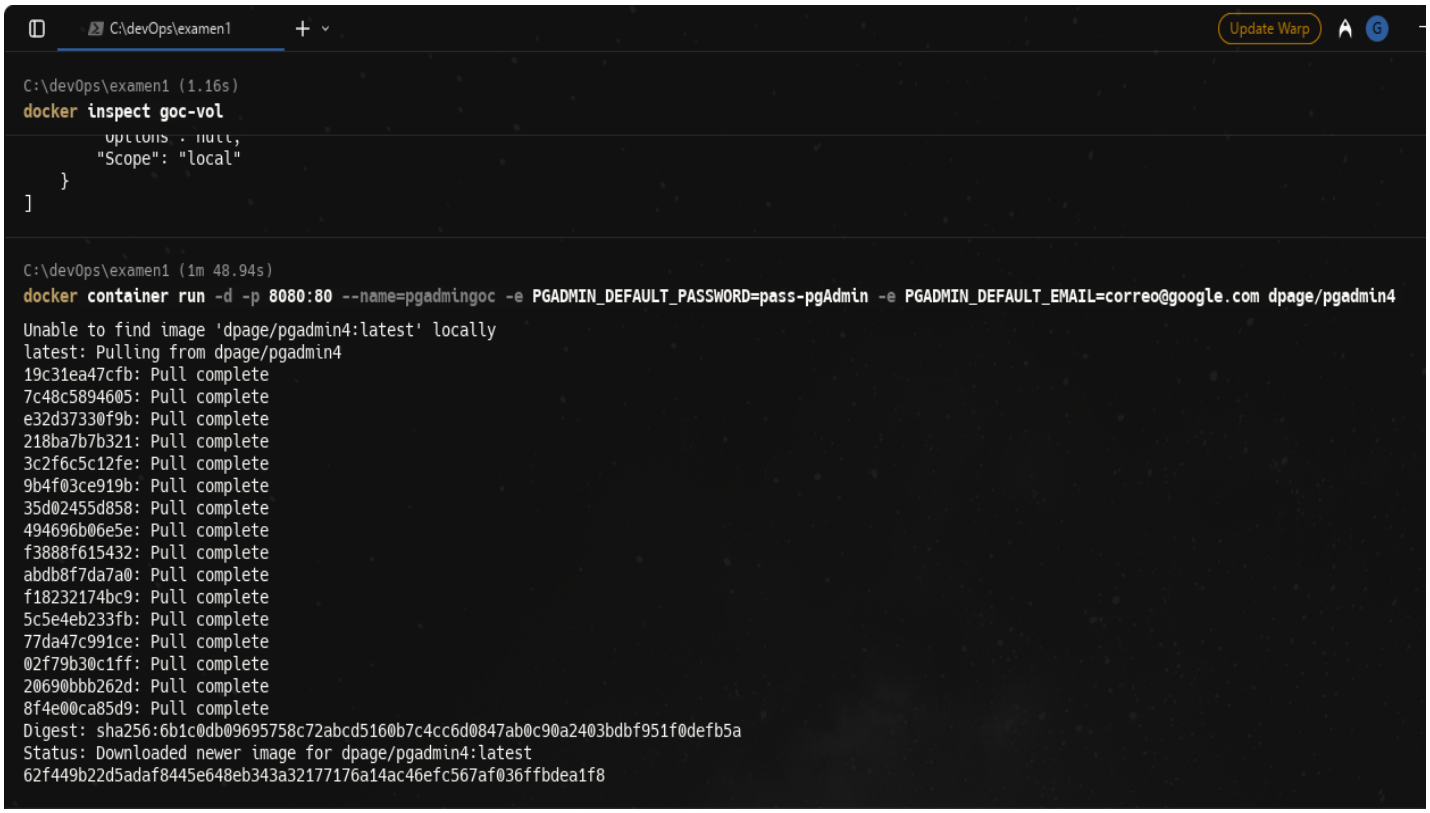




Aquí nos creamos una tabla



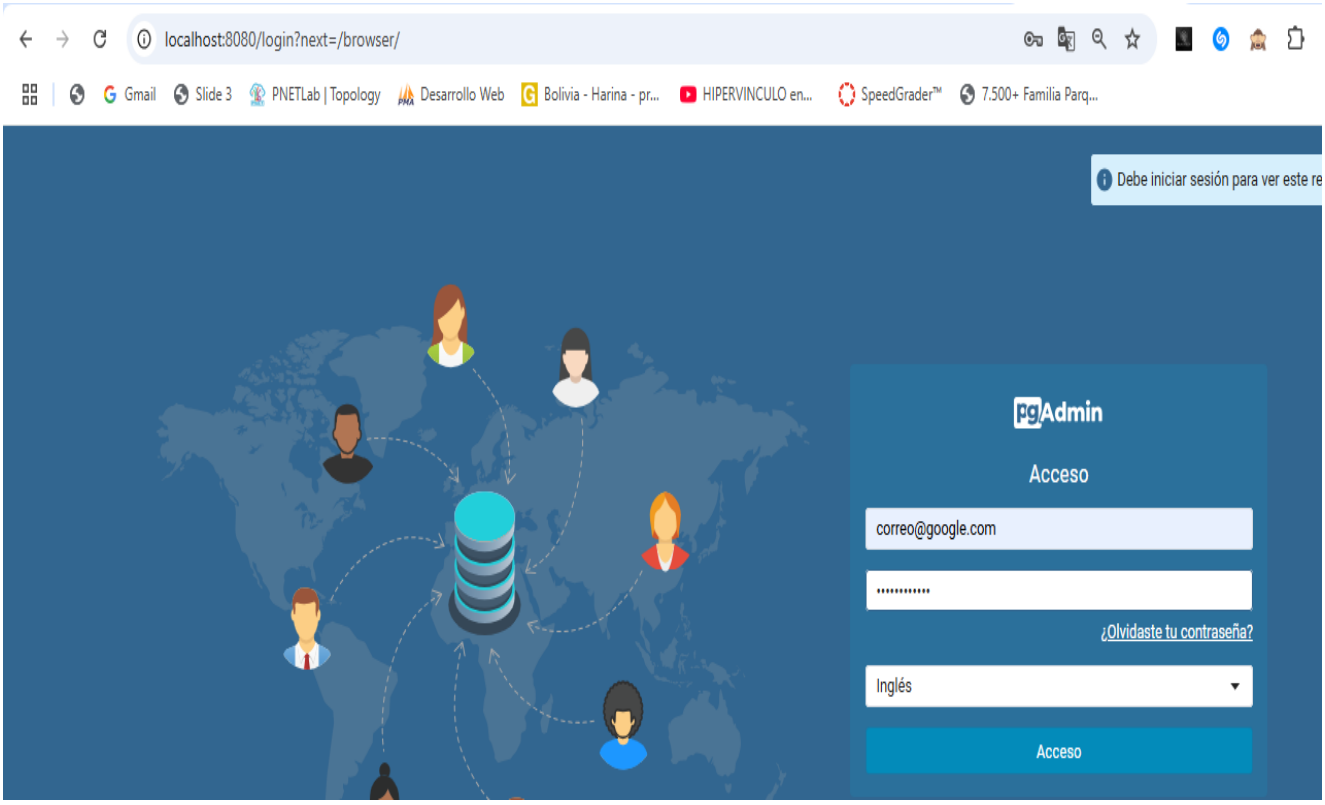
3: Montamos la imagen de pgadmin y el contenedor



Aquí vemos que se está ejecutando el contenedor de pgadmin

```
docker ps
CONTAINER ID   IMAGE          COMMAND                  CREATED          STATUS          PORTS                           NAMES
62f449b22d5a   dpage/pgadmin4 "/entrypoint.sh"         20 seconds ago   Up 18 seconds   443/tcp, 0.0.0.0:8080->80/tcp   pgadmingoc
37969363a0cf   postgres       "docker-entrypoint.s…"   About an hour ago Up About an hour 0.0.0.0:5432->5432/tcp   postgresgoc

C:\devOps\examen1 (0.593s)
docker ps -a
CONTAINER ID   IMAGE                COMMAND                  CREATED          STATUS                      PORTS                           NAMES
62f449b22d5a   dpage/pgadmin4       "/entrypoint.sh"         25 seconds ago   Up 24 seconds               443/tcp, 0.0.0.0:8080->80/tcp   pgadmingoc
37969363a0cf   postgres             "docker-entrypoint.s…"   About an hour ago Up About an hour           0.0.0.0:5432->5432/tcp          postgresgoc
d090b78407e6   phpmyadmin           "/docker-entrypoint.…"   29 hours ago     Exited (255) 11 hours ago   0.0.0.0:8080->80/tcp            charming_blackburn
5c3c01967835   mariadb:10.6.22-jammy "docker-entrypoint.s…"  31 hours ago     Exited (255) 11 hours ago   0.0.0.0:3306->3306/tcp          devops_db
```

4: colocamos las credenciales de pgAdmin



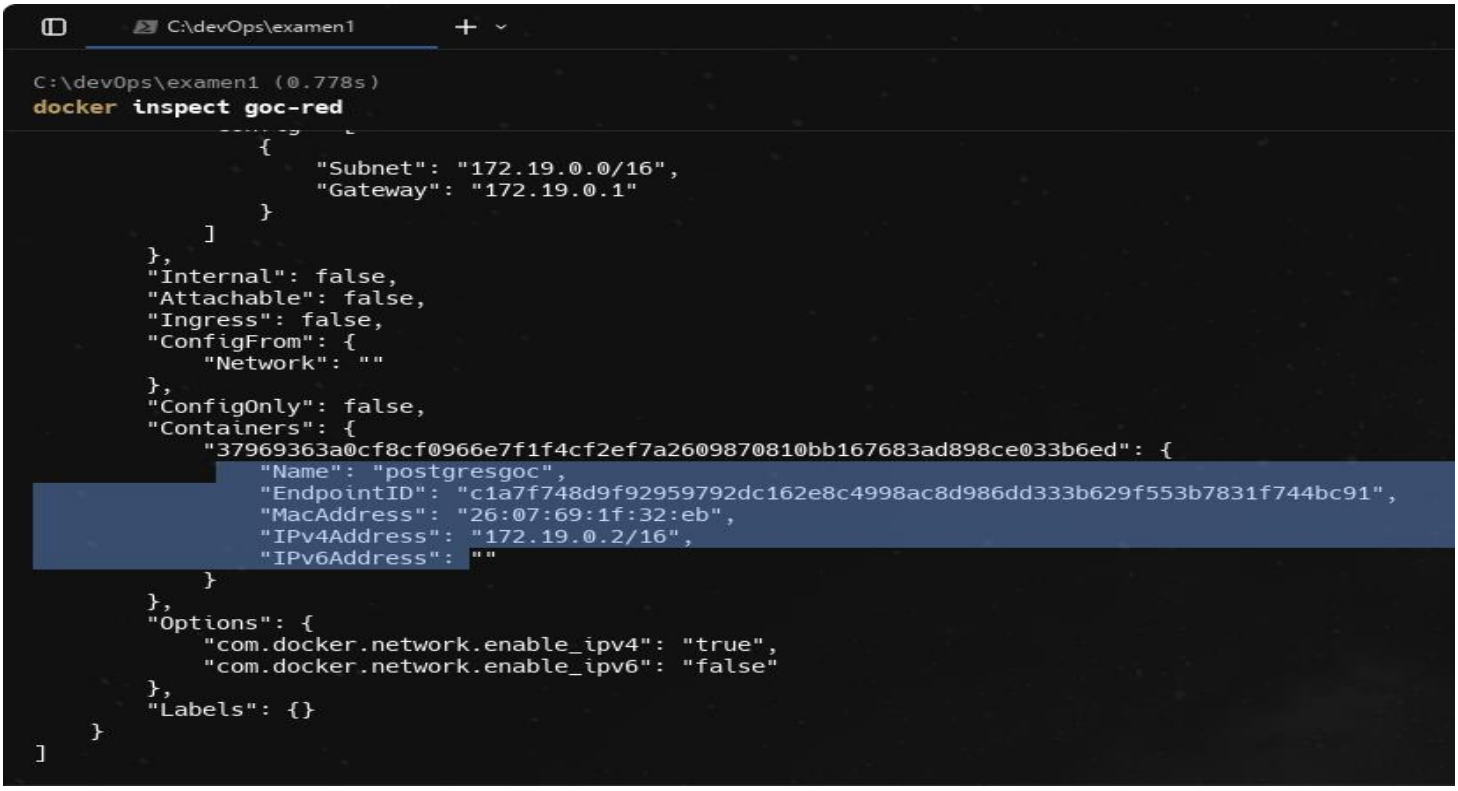
una vez entrado con nuestros credenciales nos muestra la pantalla de pgAdmin y nos creamos nuestro tabla de Tablagus

5: nos conectamos a la red de goc-red

Conexión de postgres

```
docker ps -a

CONTAINER ID   IMAGE                COMMAND                  CREATED          STATUS                      PORTS                          NAMES
62f449b22d5a   dpage/pgadmin4       "/entrypoint.sh"         12 minutes ago   Up 12 minutes               443/tcp, 0.0.0.0:8080->80/tcp  pgadmingoc
37969363a0cf   postgres             "docker-entrypoint.s…"   About an hour ago Up About an hour           0.0.0.0:5432->5432/tcp         postgresgoc
d090b78407e6   phpmyadmin           "/docker-entrypoint.…"   30 hours ago     Exited (255) 12 hours ago   0.0.0.0:8080->80/tcp           charming_blackburn
5c3c01967835   mariadb:10.6.22-jammy "docker-entrypoint.s…"  31 hours ago     Exited (255) 12 hours ago   0.0.0.0:3306->3306/tcp         devops_db

C:\devOps\examen1 (0.412s)
docker network connect goc-red postgresgoc
```

Inspeccionamos la red y vemos que ya tenemos un contenedor en la red de goc-red



Conexión de pgAdmin

Inspeccionamos la red y vemos que ya tenemos ambos contenedores en la red de goc-red