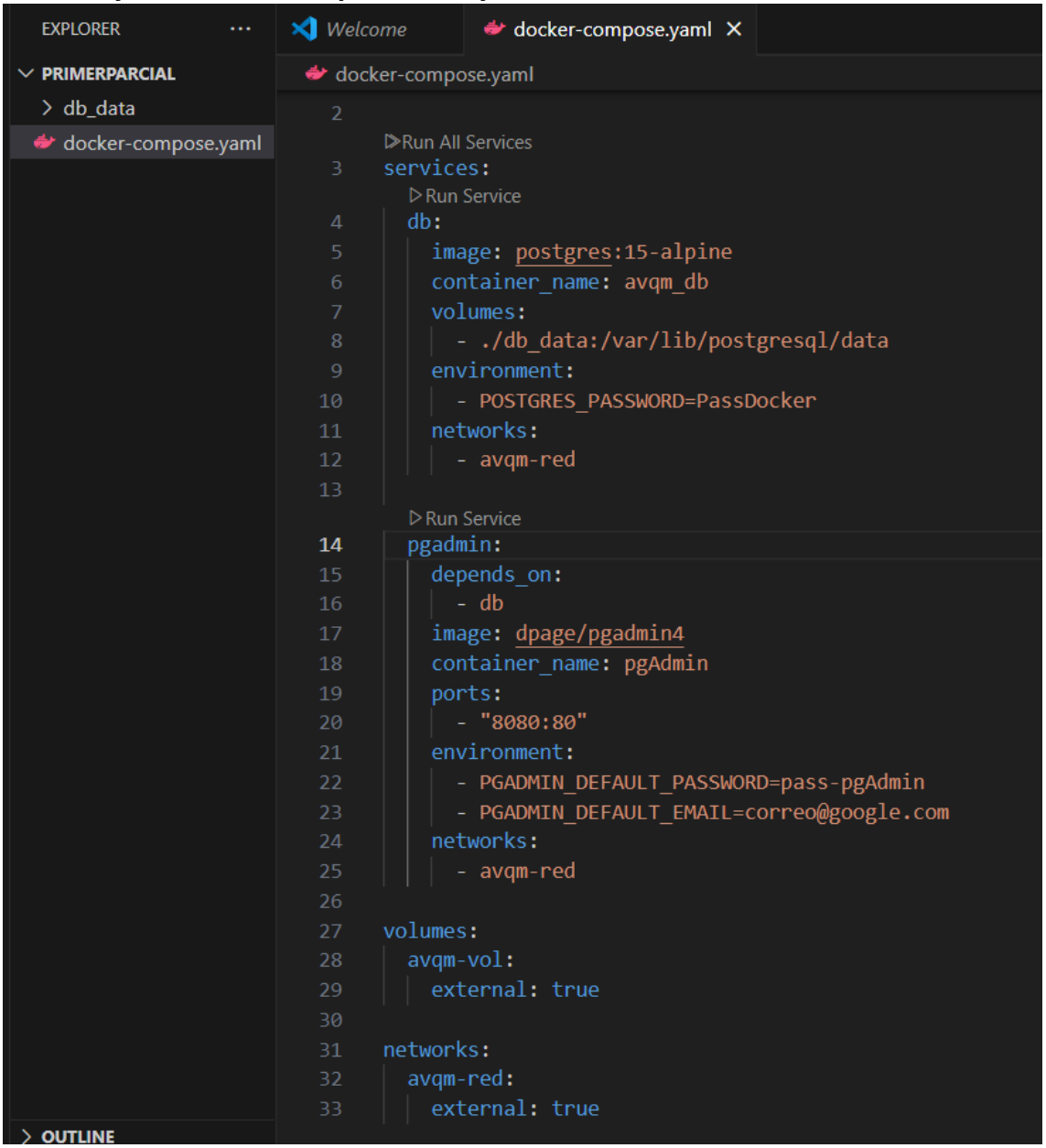
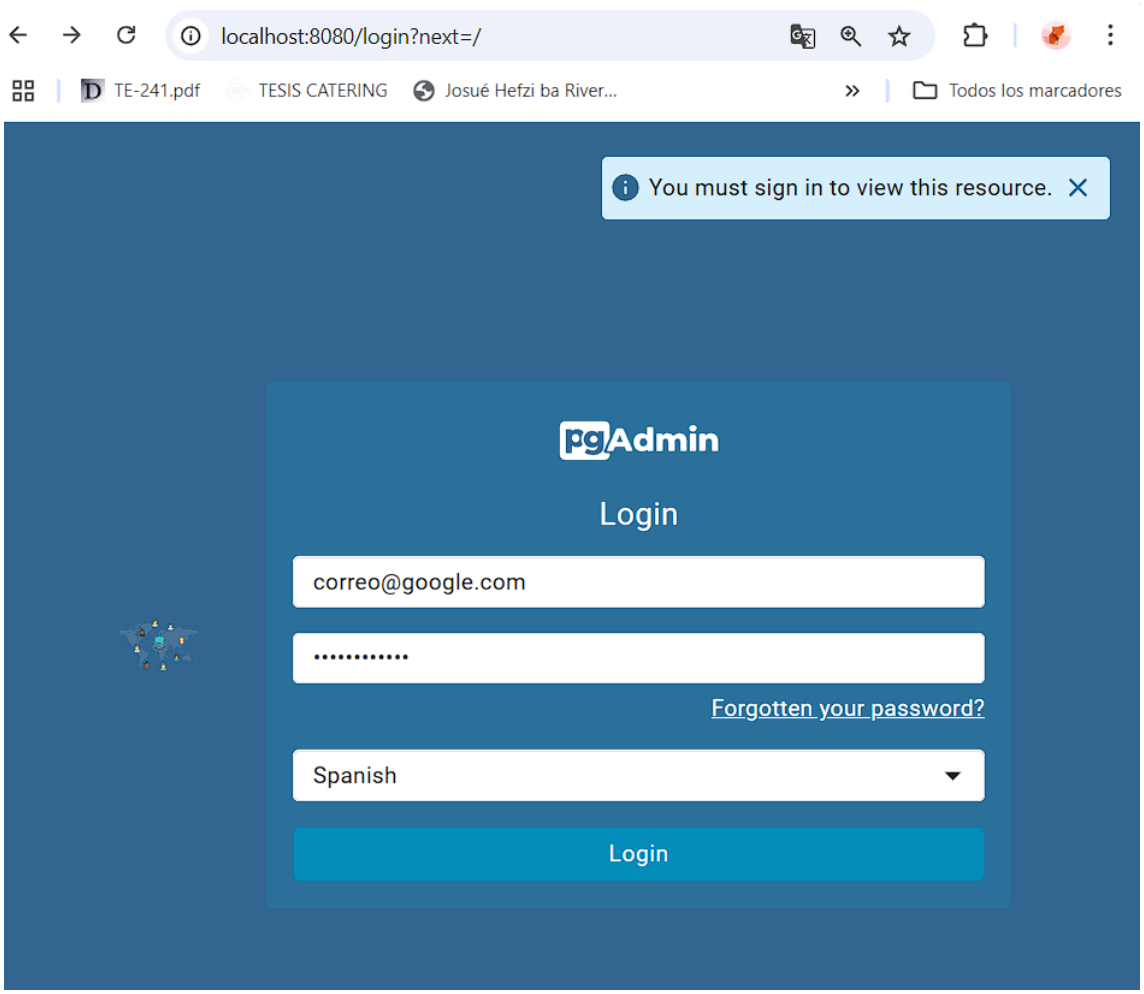
1.- Creando el volumen para almacenar la información de la base datos

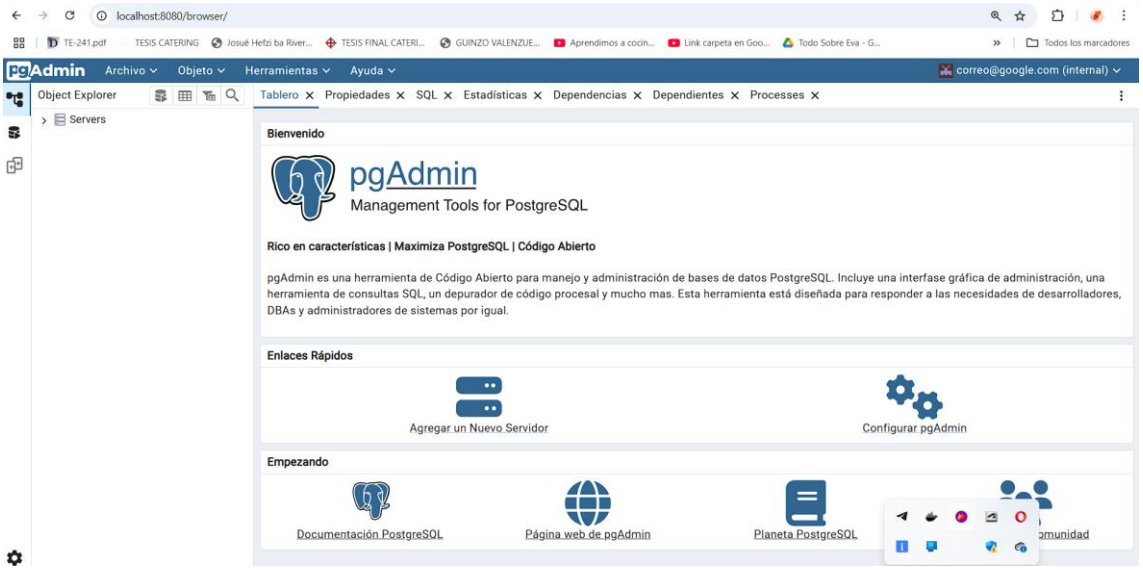
```
D:\DevOps\mivolumen\PrimerParcial (0.301s)
docker volume create avqm-vol
avqm-vol

D:\DevOps\mivolumen\PrimerParcial (0.117s)
docker volume ls
DRIVER    VOLUME NAME
local     9ca41941167cbb330d0bc93fc00ea2abd9bee70277a291bf9b601427be4872f8
local     60258ba12f002e5f71293466cbac95cc8b0e339945a734ae73f974d72bad3c16
local     132753fabcbfe4c8afe1fb1448bae964981943e0ffdd5e8eb9df48e29d76ab7d
local     a302541b9d36b1fe9d72d7aa12049ec430e6ba9e1bc0a1b6a0d27d7bed859f41
local     avqm-vol
```

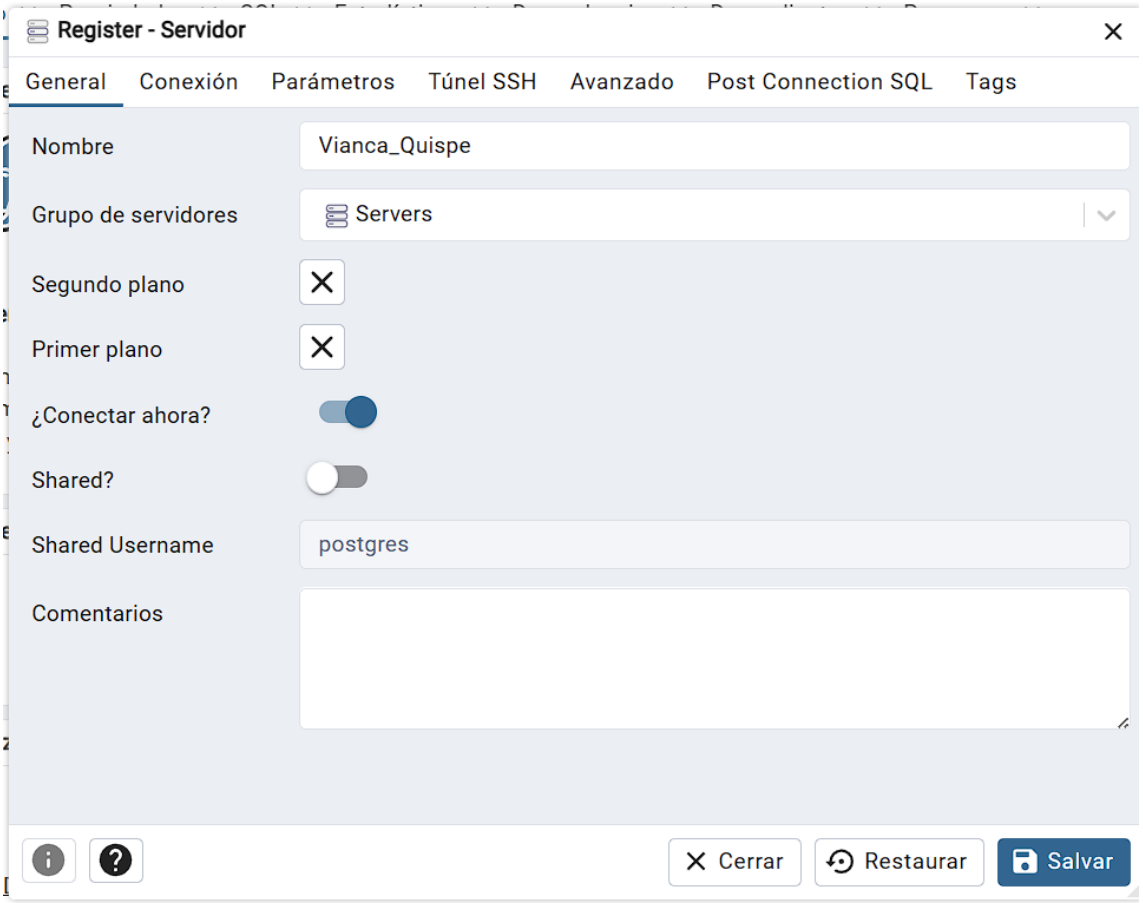
2.- Creando mi red

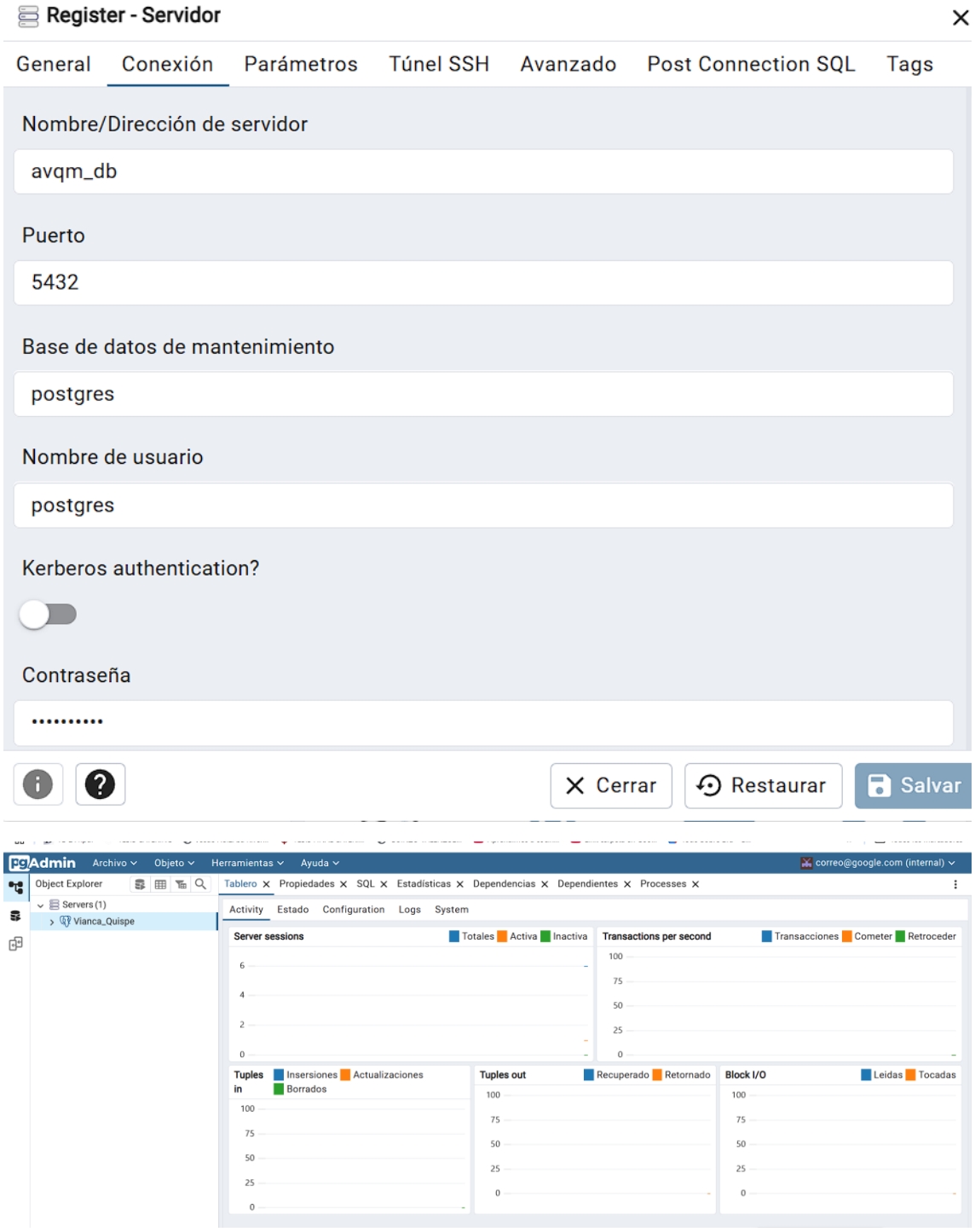
```
D:\DevOps\mivolumen\PrimerParcial (0.253s)
docker network create avqm-red
1a08062af03797e4aacc5a6f107aab65493bcb41f2621469302833ecf6056ead

D:\DevOps\mivolumen\PrimerParcial (0.088s)
docker network ls
NETWORK ID     NAME                    DRIVER    SCOPE
1a08062af037   avqm-red                bridge    local
d6afc63eb551   bridge                  bridge    local
ccfcf705e91c   host                    host      local
```


EXPLORER
PRIMERPARCIAL
db_data
docker-compose.yaml
OUTLINE
Welcome
docker-compose.yaml
docker-compose.yaml
Run All Services
services:
Run Service
db:
image: postgres:15-alpine
container_name: avqm_db
volumes:
- ./db_data:/var/lib/postgresql/data
environment:
- POSTGRES_PASSWORD=PassDocker
networks:
- avqm-red
Run Service
pgadmin:
depends_on:
- db
image: dpage/pgadmin4
container_name: pgAdmin
ports:
- "8080:80"
environment:
- PGADMIN_DEFAULT_PASSWORD=pass-pgAdmin
- PGADMIN_DEFAULT_EMAIL=correo@google.com
networks:
- avqm-red
volumes:
avqm-vol:
external: true
networks:
avqm-red:
external: true


localhost:8080/login?next=/
TE-241.pdf
TESIS CATERING
Josué Hefzi ba River...
Todos los marcadores
You must sign in to view this resource.
pgAdmin
Login
correo@google.com
Forgotten your password?
Spanish
Login


localhost:8080/browser/
pgAdmin
Archivo
Objeto
Herramientas
Ayuda
correo@google.com (internal)
Object Explorer
Servers
Tablero
Propiedades
SQL
Estadísticas
Dependencias
Dependientes
Processes
Bienvenido
pgAdmin
Management Tools for PostgreSQL
Rico en características | Maximiza PostgreSQL | Código Abierto
pgAdmin es una herramienta de Código Abierto para manejo y administración de bases de datos PostgreSQL. Incluye una interfase gráfica de administración, una herramienta de consultas SQL, un depurador de código procesal y mucho mas. Esta herramienta está diseñada para responder a las necesidades de desarrolladores, DBAs y administradores de sistemas por igual.
Enlaces Rápidos
Agregar un Nuevo Servidor
Configurar pgAdmin
Empezando
Documentación PostgreSQL
Página web de pgAdmin
Planeta PostgreSQL


Register - Servidor
General
Conexión
Parámetros
Túnel SSH
Avanzado
Post Connection SQL
Tags
Nombre
Vianca_Quispe
Grupo de servidores
Servers
Segundo plano
Primer plano
¿Conectar ahora?
Shared?
Shared Username
postgres
Comentarios
Cerrar
Restaurar
Salvar



Conexión exitosa con visual studio

Con solo comandos la conexión entre postgres y pgAdmin

2.- Montando las imágenes de Postgres

```
docker container run -d --name avqm_db -e POSTGRES_PASSWORD=PassDocker -v postgre
s-db:/var/lib/postgresql/data postgres

Unable to find image 'postgres:latest' locally
latest: Pulling from library/postgres
6ce13d85dabe: Pull complete
bd1fa28722bb: Pull complete
410cd7ec9a40: Pull complete
e9a82aed48d7: Pull complete
2bb588ce4e67: Download complete
28708ff4e046: Pull complete
89ba8b615fa9: Download complete
82697a7976df: Download complete
e7aba16d6a5e: Download complete
7e11eb1421f3: Download complete
7c852ebdd63e: Pull complete
475b0e32b814: Downloading  42.99MB/112.475b0e32b814: Downloading  42.99MB/112.475
b0e32b814: Downloading  42.99MB/112.475b0e32b814: Downloading  42.99MB/112.475b0e
32b814: Downloading  44.04MB/112.475b0e32b814: Downloading  44.04MB/112.475b0e32b
2bb588ce4e67: Pull complete
: Downloading  44.04MB/112.475b0e32b814: Downloading  44.04MB/112.475b0e32b814: D
89ba8b615fa9: Pull complete
82697a7976df: Pull complete
e7aba16d6a5e: Pull complete
7e11eb1421f3: Pull complete
45.09MB/112.475b0e32b814: Downloading  45.09MB/112.475b0e32b814: Downloading  45.
475b0e32b814: Pull complete
3/112.8MB
Digest: sha256:6efd0df010dc3cb40d5e33e3ef84acecc5e73161bd3df06029ee8698e5e12c60
```

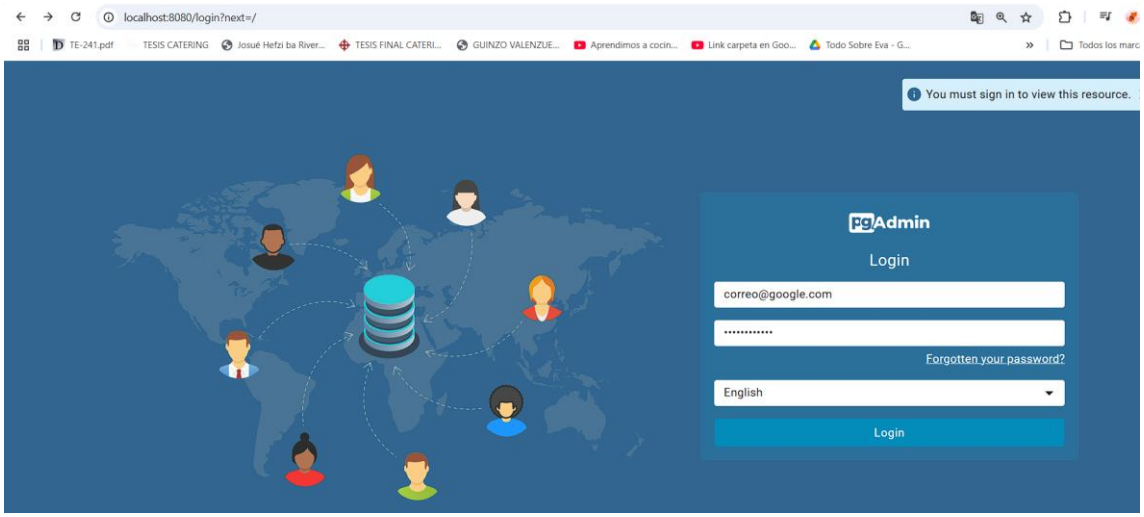
3.- Creando contenedor de pgAdmin

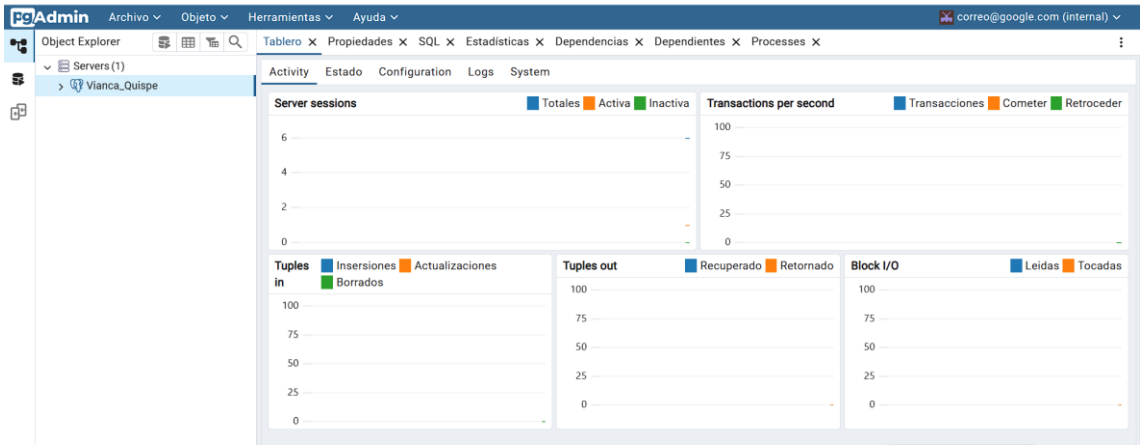
```
docker container run -d -p 8080:80 --name pgAdmin -e PGADMIN_DEFAULT_PASSWORD=pas
s-pgAdmin -e PGADMIN_DEFAULT_EMAIL=correo@google.com dpage/pgadmin4

26e2da8cd8ab68469f682ccd47027f21db9396557ad11f1930ff31bf7dc358ad
```

```
docker inspect avqm-red
        },
        "Internal": false,
        "Attachable": false,
        "Ingress": false,
        "ConfigFrom": {
            "Network": ""
        },
        "ConfigOnly": false,
        "Containers": {
            "26e2da8cd8ab68469f682ccd47027f21db9396557ad11f1930ff31bf7dc358ad": {
                "Name": "pgAdmin",
                "EndpointID": "fa82689b053ef582b05eba4849dd985f86c567a8cd4055b5e0
f7e5e315d635d1",
                "MacAddress": "9e:45:5d:01:0b:80",
                "IPv4Address": "172.19.0.3/16",
                "IPv6Address": ""
            },
            "41c229b47cc23d482467873375207d994644fd5fc5038edbdca83e9dafd8220c": {
                "Name": "avqm_db",
                "EndpointID": "ccfd672457f0d335e615bbdc0e2ae00eaf77cebbc099228024
db3546bc06e372",
                "MacAddress": "c6:39:2c:09:b1:31",
                "IPv4Address": "172.19.0.2/16",
                "IPv6Address": ""
            }
        },
        "Options": {
            "com.docker.network.enable_ipv4": "true",
            "com.docker.network.enable_ipv6": "false"
```

Univ.: Ayne Vianca Quispe Montoya **Primer Parcial**

3.-Ingresando a pgAdmin con los credenciales





5.- Conectamos los contenedores a la red avqm-red

```
docker network connect avqm-red avqm_db
```

```
docker network connect avqm-red pgAdmin
```