

EXAMEN N° 1

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MODULO:DESPLIEGUE Y DEVOPS

FECHA:P/03/06/2025

1. Crear un volumen para almacenar la información de la base de datos

```
VICTORIA@DESKTOP-QI1U8Q9 MINGW64 ~  
$ docker volume create mvqv-vol  
mvqv-vol  
  
VICTORIA@DESKTOP-QI1U8Q9 MINGW64 ~  
$ docker volume ls  
DRIVER      VOLUME NAME  
local      mvqv-vol
```

2. Montar la imagen de postgres

```
VICTORIA@DESKTOP-QI1U8Q9 MINGW64 ~  
$ docker run -d --name postgres -e POSTGRES_PASSWORD=PassDocker -v mvqv-vol:/var/lib/postgresql/data postgres  
latest: Pulling from library/postgres  
3db9b37be7c3: Pull complete  
7c852ebdd63e: Pull complete  
2bb588ce4e67: Pull complete  
61320b01ae5e: Pull complete  
e9a82aed48d7: Pull complete  
28708ff4e046: Pull complete  
e7aba16d6a5e: Pull complete  
89ba8b615fa9: Pull complete  
82697a7976df: Pull complete  
bd1fa28722bb: Pull complete  
6ce13d85dabe: Pull complete  
410cd7ec9a40: Pull complete  
475b0e32b814: Pull complete  
7e11eb1421f3: Pull complete  
Digest: sha256:6efd0df010dc3cb40d5e33e3ef84acecc5e73161bd3df06029ee8698e5e12c60  
Status: Downloaded newer image for postgres:latest  
9f7b7b079ec2ad64402e4579eb23693034d87ec6dcf9aba184a657e46f518b21  
  
VICTORIA@DESKTOP-QI1U8Q9 MINGW64 ~  
$ docker ps -a  
CONTAINER ID   IMAGE     COMMAND                  CREATED        STATUS        PORTS        NAMES  
9f7b7b079ec2   postgres "docker-entrypoint.s..." 26 seconds ago Up 18 seconds 5432/tcp     postgres
```

3. Crear contenedor pgAdmin

```

VICTORIA@DESKTOP-QI1U8Q9 MINGW64 ~
$ docker run -d -p 8080:80 --name pgAdmin -e PGADMIN_DEFAULT_PASSWORD=pass-pgAdmin -e PGADMIN_DEFAULT_EMAIL=correo@goog1e.com dpape/pgadmin4
Unable to find image 'dpape/pgadmin4:latest' locally
latest: Pulling from dpape/pgadmin4
f18232174bc9: Pull complete
7c48c5894605: Pull complete
8f4e00ca85d9: Pull complete
20690bbb262d: Pull complete
5c5e4eb233fb: Pull complete
218ba7b7b321: Pull complete
77da47c991ce: Pull complete
9b4f03ce919b: Pull complete
02f79b30c1ff: Pull complete
e32d37330f9b: Pull complete
abdb8f7da7a0: Pull complete
19c31ea47cfb: Pull complete
f3888f615432: Pull complete
3c2f6c5c12fe: Pull complete
35d02455d858: Pull complete
494696b06e5e: Pull complete
Digest: sha256:6b1c0db09695758c72abcd5160b7c4cc6d0847ab0c90a2403bdbf951f0defb5a
Status: Downloaded newer image for dpape/pgadmin4:latest
0e6124525c57612f19a31ebf6f8eb2be99f4b74ff304ce5f215bc3353c09bbf1

VICTORIA@DESKTOP-QI1U8Q9 MINGW64 ~
$ docker ps -a
docker: unknown command: docker ps -a

Run 'docker --help' for more information

VICTORIA@DESKTOP-QI1U8Q9 MINGW64 ~
$ docker ps -a
CONTAINER ID   IMAGE          COMMAND                  CREATED        STATUS        PORTS
0e6124525c57   dpape/pgadmin4 "/entrypoint.sh"        About a minute ago    Up 59 seconds    443/tcp, 0.0.0.0:8080->80/tcp
9f7b7b079ec2   postgres      "docker-entrypoint.s..." 6 minutes ago        Up 6 minutes     5432/tcp

```

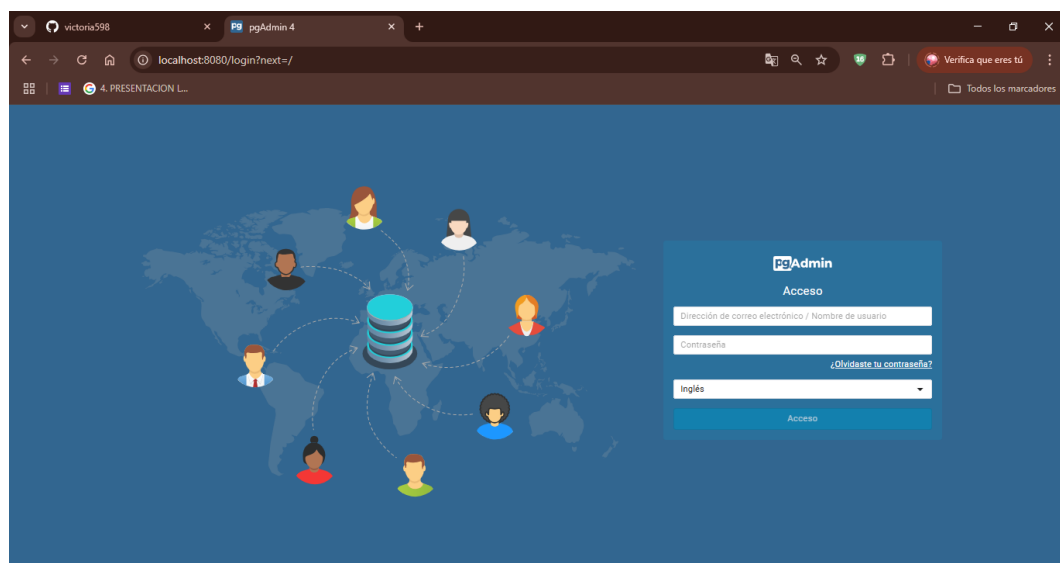
4. Ingresar a pgAdmin con las credenciales

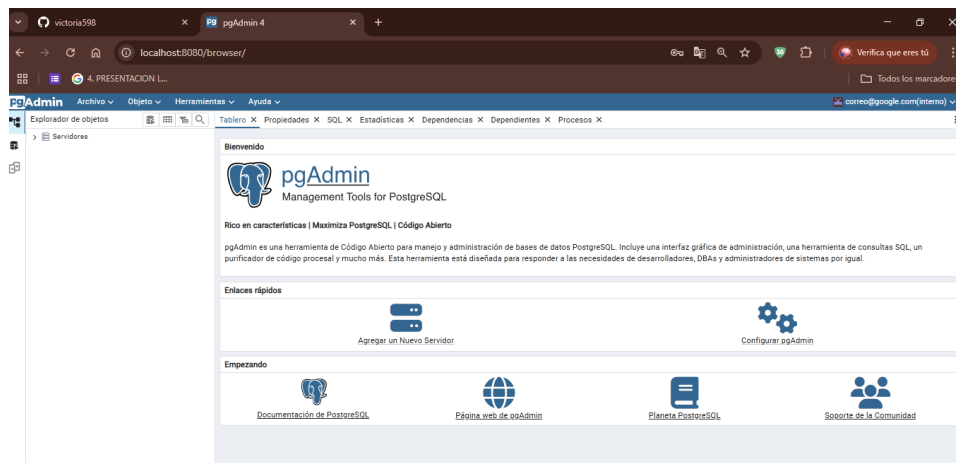
```

VICTORIA@DESKTOP-QI1U8Q9 MINGW64 ~
$ docker network create mvqv-red
f3bcab8b6b103a8b25267a4b30630cd955a8ea72061583f72ebd5dc8564f32b7

VICTORIA@DESKTOP-QI1U8Q9 MINGW64 ~
$ docker network ls
NETWORK ID      NAME      DRIVER    SCOPE
ec5377dbd486    bridge    bridge     local
e0df7862e7ff    host      host       local
f3bcab8b6b10    mvqv-red  bridge     local
654abf4728f6    none      null       local

```





5. Conectar ambos contenedores a la red mvqv-red

```
VICTORIA@DESKTOP-QI1U8Q9 MINGW64 ~  
$ docker network connect mvqv-red postgres  
  
VICTORIA@DESKTOP-QI1U8Q9 MINGW64 ~  
$ docker network connect mvqv-red pgAdmin
```

VICTORIA@DESKTOP-QI1U8Q9 MINGW64 ~

\$ docker network inspect mvqv-red

```
[
  {
    "Name": "mvqv-red",
    "Id": "f3bcab8b6b103a8b25267a4b30630cd955a8ea72061583f72ebd5dc8564f32b7",
    "Created": "2025-06-03T04:51:37.120109611Z",
    "Scope": "local",
    "Driver": "bridge",
    "EnableIPv4": true,
    "EnableIPv6": false,
    "IPAM": {
      "Driver": "default",
      "Options": {},
      "Config": [
        {
          "Subnet": "172.18.0.0/16",
          "Gateway": "172.18.0.1"
        }
      ]
    },
    "Internal": false,
    "Attachable": false,
    "Ingress": false,
    "ConfigFrom": {
      "Network": ""
    },
    "ConfigOnly": false,
    "Containers": {
      "0e6124525c57612f19a31ebf6f8eb2be99f4b74ff304ce5f215bc3353c09bbf1": {
        "Name": "pgAdmin",
        "EndpointID": "f34ff9220c3c9018ea3f153c6e177ac7126af803acfbf4f7f8bb33a6c33ceb57",
        "MacAddress": "0e:c3:4d:32:45:1f",
        "IPv4Address": "172.18.0.3/16",
        "IPv6Address": ""
      },
      "9f7b7b079ec2ad64402e4579eb23693034d87ec6dcf9aba184a657e46f518b21": {
        "Name": "postgres",
        "EndpointID": "361c5290afbb65ae3a1c657557bc959e61f147c2b26290d16e9999782f59be04",
        "MacAddress": "4a:c2:78:85:bf:45",
        "IPv4Address": "172.18.0.2/16",
        "IPv6Address": ""
      }
    },
    "Options": {
      "com.docker.network.enable_ipv4": "true",
      "com.docker.network.enable_ipv6": "false"
    },
    "Labels": {}
  }
]
```