PRIMER EXAMEN

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1.-

```
~\AppData\Local\Programs\Warp (0.246s)
docker volume create agla-vol

agla-vol


~\AppData\Local\Programs\Warp (0.165s)
docker volume ls

DRIVER      VOLUME NAME
local       agla-vol
local       db_data
```

2.-

```
~\AppData\Local\Programs\Warp (0.353s)
docker image ls

REPOSITORY        TAG         IMAGE ID        CREATED        SIZE
postgres          15-alpine   b86604df02ea    3 days ago     391MB
elestio/pgadmin   latest      20cefc78b26b    3 days ago     805MB
ubuntu            latest      6015f66923d7    5 weeks ago    117MB
nginx             latest      fb39280b7b9e    6 weeks ago    279MB


~\AppData\Local\Programs\Warp (19.561s)
docker pull postgres

Using default tag: latest
latest: Pulling from library/postgres
410cd7ec9a40: Pull complete
7e11eb1421f3: Pull complete
28708ff4e046: Pull complete
89ba8b615fa9: Pull complete
e7aba16d6a5e: Pull complete
82697a7976df: Pull complete
475b0e32b814: Pull complete
2bb588ce4e67: Pull complete
e9a82aed48d7: Pull complete
7c852ebdd63e: Pull complete
bd1fa28722bb: Pull complete
3db9b37be7c3: Pull complete
6ce13d85dabe: Pull complete
Digest: sha256:6efd0df010dc3cb40d5e33e3ef84acecc5e73161bd3df06029ee8698e5e12c60
Status: Downloaded newer image for postgres:latest
docker.io/library/postgres:latest


~\AppData\Local\Programs\Warp (1.637s)
docker container run -d --name postgres_db -e POSTGRES_PASSWORD=PassDocker -v agla-vol:/var/lib/postgresql/data postgres:latest
0b766fd943613c25ec1a4b1df6b3b02a3731a0bea6dea535df730263fb844e4d


~\AppData\Local\Programs\Warp (0.193s)
docker ps
CONTAINER ID   IMAGE             COMMAND               CREATED            STATUS             PORTS       NAMES
0b766fd94361   postgres:latest   "docker-entrypoint.s…"  About a minute ago  Up About a minute  5432/tcp    postgres_db
```

PGDATA

Important Note: Mount the data volume at `/var/lib/postgresql/data` and not at `/var/lib/postgresql` because mounts at the latter path WILL NOT PERSIST database data when the container is re-created. The Dockerfile that builds the image declares a volume at `/var/lib/postgresql/data` and if no data volume is mounted at that path then the container runtime will automatically create an anonymous volume ↗ that is not reused across container re-creations. Data will be written to the anonymous volume rather than your intended data volume and won't persist when the container is deleted and re-created.

3.-

```
~\AppData\Local\Programs\Warp (33.581s)
docker container run -d --name pgAdmin -e PGADMIN_DEFAULT_EMAIL=correo@google.com -e PGADMIN_DEFAULT_PASSWORD=pass-pgAdmin -p 8080:80 dpage/pgadmin4
Unable to find image 'dpage/pgadmin4:latest' locally
latest: Pulling from dpage/pgadmin4
abdb8f7da7a0: Pull complete
218ba7b7b321: Pull complete
f3888f615432: Pull complete
19c31ea47cfb: Pull complete
02f79b30c1ff: Pull complete
35d02455d858: Pull complete
3c2f6c5c12fe: Pull complete
77da47c991ce: Pull complete
494696b06e5e: Pull complete
e32d37330f9b: Pull complete
9b4f03ce919b: Pull complete
5c5e4eb233fb: Pull complete
8f4e00ca85d9: Pull complete
7c48c5894605: Pull complete
20690bbb262d: Pull complete
Digest: sha256:6b1c0db09695758c72abcd5160b7c4cc6d0847ab0c90a2403bdbf951f0defb5a
Status: Downloaded newer image for dpage/pgadmin4:latest
78589681bfd52c2507bd4d85b37e35f30e2de8e1d907e75599ca87f03522c25c

~\AppData\Local\Programs\Warp (0.182s)
docker ps
CONTAINER ID   IMAGE              COMMAND               CREATED         STATUS         PORTS                          NAMES
78589681bfd5   dpage/pgadmin4     "/entrypoint.sh"      8 seconds ago   Up 6 seconds   443/tcp, 0.0.0.0:8080->80/tcp  pgAdmin
0b766fd94361   postgres:latest    "docker-entrypoint.s…" 3 minutes ago   Up 3 minutes   5432/tcp                       postgres_db
```
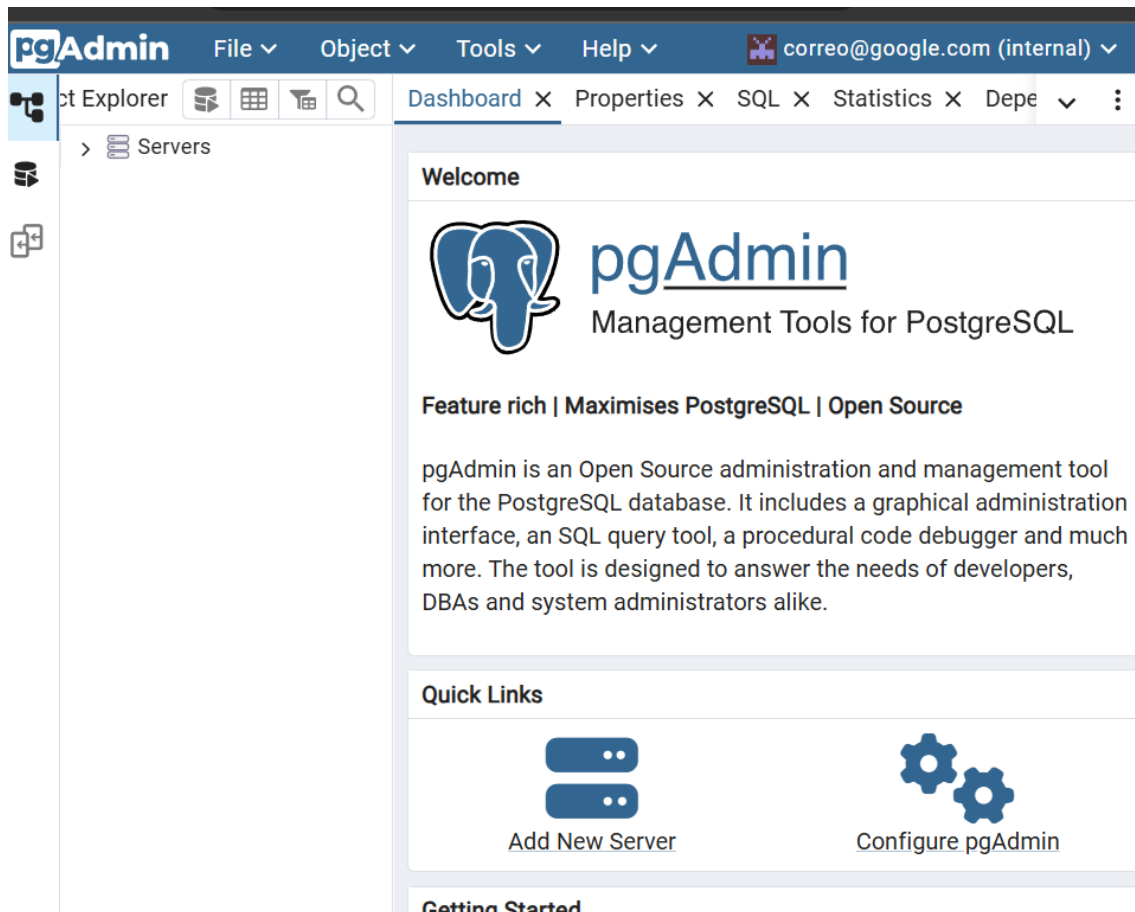
4.-

5.-

```
~\AppData\Local\Programs\Warp (0.212s)
docker network inspect agla-red
        "Name": "agla-red",
        "Id": "7e1925db731fd9b6316ffc7b2d00a719381a4d8e7e99e1dcdaf7eafcedff84f8",
        "Created": "2025-06-03T03:15:01.321729176Z",
        "Scope": "local",
        "Driver": "bridge",
        "EnableIPv4": true,
        "EnableIPv6": false,
        "IPAM": {
            "Driver": "default",
            "Options": {},
            "Config": [
                {
                    "Subnet": "172.19.0.0/16",
                    "Gateway": "172.19.0.1"
                }
            ]
        },
        "Internal": false,
        "Attachable": false,
        "Ingress": false,
        "ConfigFrom": {
            "Network": ""
        },
        "ConfigOnly": false,
        "Containers": {
            "0b766fd943613c25ec1a4b1df6b3b02a3731a0bea6dea535df730263fb844e4d": {
                "Name": "postgres_db",
                "EndpointID": "85059685237bcd83a78df3a00260938b59ecc333f78ec7a94ba446251a34f1d9",
                "MacAddress": "c6:e0:36:e2:fe:fc",
                "IPv4Address": "172.19.0.3/16",
                "IPv6Address": ""
            },
            "78589681bfd52c2507bd4d85b37e35f30e2de8e1d907e75599ca87f03522c25c": {
                "Name": "pgAdmin",
                "EndpointID": "e3da182a1804136a4533b5a6968d99dd87e2a00a695bf758a680469ff8657b8d",
                "MacAddress": "8e:6e:54:04:d2:4f",
                "IPv4Address": "172.19.0.2/16",
                "IPv6Address": ""
            }
        },
        "Options": {
            "com.docker.network.enable_ipv4": "true",
            "com.docker.network.enable_ipv6": "false"
        },
        "Labels": {}
    }
]
```

RESULTADO FINAL