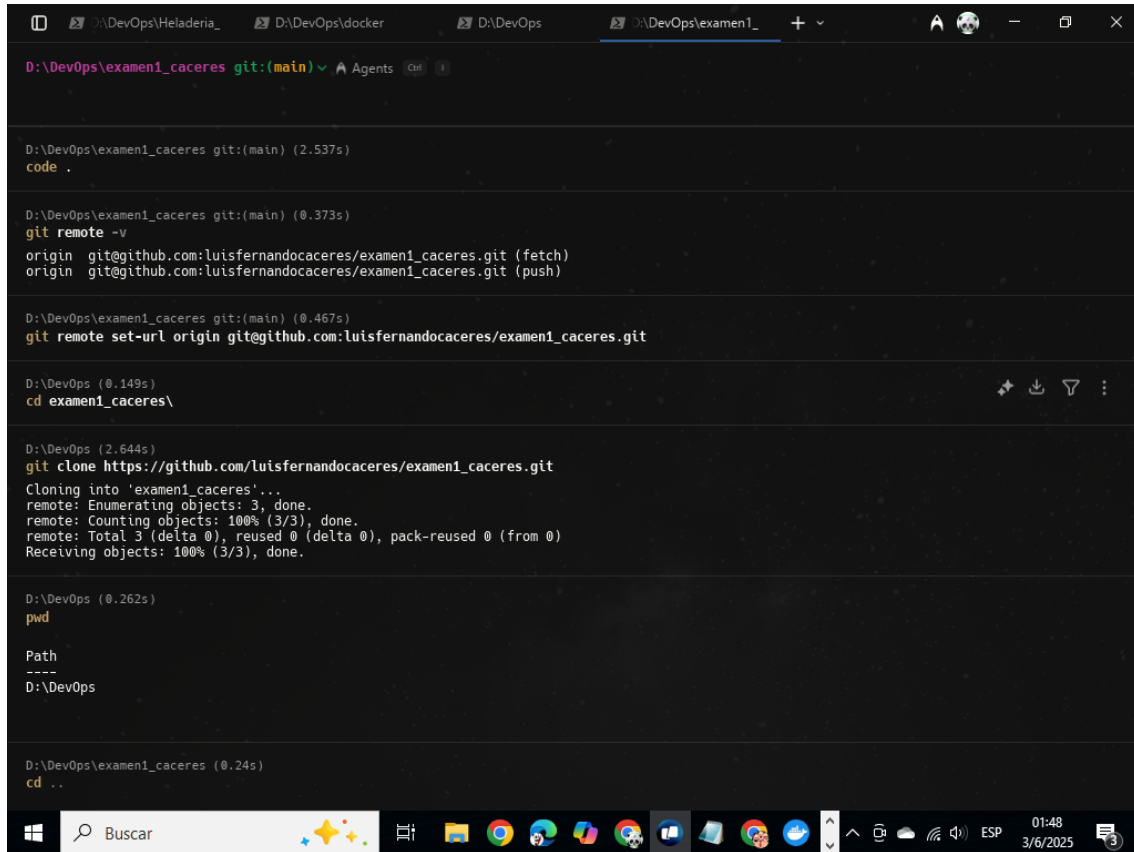


PRIMER EXAMEN DEL MODULO IV

DOCKER

Universitario: Luis Fernando Cáceres Calderón



```
D:\DevOps\examen1_caceres git:(main) Agents Cid

D:\DevOps\examen1_caceres git:(main) (2.537s)
code .

D:\DevOps\examen1_caceres git:(main) (0.373s)
git remote -v
origin git@github.com:luisfernandocaceres/examen1_caceres.git (fetch)
origin git@github.com:luisfernandocaceres/examen1_caceres.git (push)

D:\DevOps\examen1_caceres git:(main) (0.467s)
git remote set-url origin git@github.com:luisfernandocaceres/examen1_caceres.git

D:\DevOps (0.149s)
cd examen1_caceres\

D:\DevOps (2.644s)
git clone https://github.com/luisfernandocaceres/examen1_caceres.git
Cloning into 'examen1_caceres'...
remote: Enumerating objects: 3, done.
remote: Counting objects: 100% (3/3), done.
remote: Total 3 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)
Receiving objects: 100% (3/3), done.

D:\DevOps (0.262s)
pwd

Path
----
D:\DevOps

D:\DevOps\examen1_caceres (0.24s)
cd ..
```

```
D:\DevOps\examen1_caceres
D:\DevOps\examen1_caceres (0.823s)
docker container run -d --name postgres-lfcc -e POSTGRES_PASSWORD=PassDocker -v lfcc-vol:/var/lib/postgresql/data postgres:latest
usage: docker container run [OPTIONS] IMAGE [COMMAND] [ARG...]
Run 'docker container run --help' for more information

D:\DevOps\examen1_caceres (0.472s)
docker volume create lfcc-vol
lfcc-vol

D:\DevOps\examen1_caceres (0.455s)
docker volume ls
DRIVER      VOLUME NAME
local       3c562dc90f737a3e40fc0438d7c3c9db2f4c9ebd2154b4b7b16d29b60a71d388
local       5a45ef481b6d1115f89c7d18820a4602dab5a056f1ca4d380349626e106223ea
local       5b47570b7bd75420f077d254b6b081982374d91db57452772fc0af7f0da9168f
local       6b55370d8d55916107fc3c01359db125b82b636d3b0884b66f989f8534246902
local       708009f73e7690fc02eaa5232826d977f6609f29fda426c7422f612ef47b41b9
local       b46aa11798586f1a501c71f77cdd51210478bf0faef9dae666df194f12a1202
local       d01141d62cdeaffab33b5fe655b3abd9e1dc348901b00a128c4e69771fa836f

D:\DevOps\examen1_caceres (0.156s)
cls

D:\DevOps\examen1_caceres (0.589s)
docker volume ls
error during connect: Get "http://%2F%2F.%2Fpipe%2FdockerDesktopLinuxEngine/v1.49/volumes": open //./pipe/dockerDesktopLinuxEngine: El sistema no puede encontrar el archivo especificado.

D:\DevOps\examen1_caceres (0.057s)
ls

D:\DevOps (0.156s)
cd examen1_caceres\
```

```
D:\DevOps\examen1_caceres
D:\DevOps\examen1_caceres (0.599s)
docker image ls
REPOSITORY    TAG       IMAGE ID       CREATED        SIZE
postgres      latest    6efd0df010dc   12 days ago    621MB
ubuntu        25.10    36bbb8adc066   2 weeks ago    114MB
ubuntu        latest    6015f66923d7   5 weeks ago    117MB
nginx          latest    fb39280b7b9e   6 weeks ago    279MB
mysql          latest    2247f6d47a59   7 weeks ago    1.17GB
phpmyadmin     latest    73467128842b   4 months ago   813MB
httpd          latest    09cb4b94edaa   4 months ago   221MB
hello-world    latest    dd01f97f2521   4 months ago   20.4kB
mariadb        jammy     e101f9db3191   12 months ago  551MB

D:\DevOps\examen1_caceres (0.462s)
docker ps
CONTAINER ID   IMAGE      COMMAND                  CREATED        STATUS        PORTS          NAMES
6c3e5879b755  postgres:latest    "docker-entrypoint.s..." About a minute ago    Up About a minute    5432/tcp       postgres-lfcc

D:\DevOps\examen1_caceres (1m 44.07s)
docker container run --name postgres-lfcc -e POSTGRES_PASSWORD=PassDocker -v lfcc-vol:/var/lib/postgresql/data -d postgres:latest
Unable to find image 'postgres:latest' locally
latest: Pulling from library/postgres
2bb588ce4e67: Pull complete
410cd7ec9a40: Pull complete
6ce13d85dabe: Pull complete
475b0e32b814: Pull complete
e9a82aed48d7: Pull complete
28708ff4e046: Pull complete
82697a7976df: Pull complete
89ba8b615fa9: Pull complete
e7aba16d6a5e: Pull complete
7c852ebdd63e: Pull complete
3db9b37be7c3: Pull complete
7e11eb1421f3: Pull complete
bd1fa28722bb: Pull complete
Digest: sha256:6efd0df010dc3cb40d5e33e3ef84acecc5e73161bd3df06029ee8698e5e12c60
Status: Downloaded newer image for postgres:latest
6c3e5879b755f098dd252b46ecf153b02badf3692d3699271846449db1fa5c
```

```
D:\DevOps\examen1_caceres A Agents Ctrl I

D:\DevOps\examen1_caceres (0.393s)
docker network ls
NETWORK ID          NAME                DRIVER              SCOPE
5423f89ff163        bridge             bridge              local
1b1a5b017648        host               host                local
2d9bec3b2119        none               null                local

D:\DevOps\examen1_caceres (0.409s)
docker ps
CONTAINER ID        IMAGE               COMMAND              CREATED            STATUS              PORTS              NAMES
0cefcf809346       dpape/pgadmin4     "/entrypoint.sh"    12 seconds ago    Up 11 seconds      443/tcp, 0.0.0.0:8080->80/tcp    pgAdmin
6c3e5879b755       postgres:latest    "docker-entrypoint.s..."  9 minutes ago    Up 9 minutes       5432/tcp            postgres-lfccc

D:\DevOps\examen1_caceres (2m 48.51s)
docker container run -d -p 8080:80 --name pgAdmin -e PGADMIN_DEFAULT_PASSWORD=pass-pgAdmin -e PGADMIN_DEFAULT_EMAIL=correo@google.com dpape/pgadmin4
Unable to find image 'dpape/pgadmin4:latest' locally
latest: Pulling from dpape/pgadmin4
20690bbb262d: Pull complete
19c31ea47cfb: Pull complete
8f4e00ca85d9: Pull complete
3c2f6c5c12fe: Pull complete
9b4f03ce919b: Pull complete
f19232174bc9: Pull complete
f3808f615432: Pull complete
404696b06e5e: Pull complete
218ba7b7b321: Pull complete
abdb8f7da7a0: Pull complete
7c48c5894605: Pull complete
5c5e4eb233fb: Pull complete
e32d37330f9b: Pull complete
35d02455d858: Pull complete
02f79b30c1ff: Pull complete
77da47c991ce: Pull complete
Digest: sha256:6b1c0db09695758c72abcd5160b7c4cc6d0847ab0c90a2403bdf951f0defb5a
Status: Downloaded newer image for dpape/pgadmin4:latest
0cefcf809346e0a0de00275be165578be5ea461b48790a46b161245dd0039053
```

```
D:\DevOps\examen1_caceres A Agents Ctrl I

D:\DevOps\examen1_caceres (0.399s)
docker network ls
NETWORK ID          NAME                DRIVER              SCOPE
5423f89ff163        bridge             bridge              local
1b1a5b017648        host               host                local
4973cf85d7a3        lfccc-red          bridge              local
2d9bec3b2119        none               null                local

D:\DevOps\examen1_caceres (0.424s)
docker network connect lfccc-red pgAdmin

D:\DevOps\examen1_caceres (0.537s)
docker network connect lfccc-red postgres-lfccc

D:\DevOps\examen1_caceres (0.427s)
docker ps
CONTAINER ID        IMAGE               COMMAND              CREATED            STATUS              PORTS              NAMES
0cefcf809346       dpape/pgadmin4     "/entrypoint.sh"    6 minutes ago     Up 6 minutes       443/tcp, 0.0.0.0:8080->80/tcp    pgAdmin
6c3e5879b755       postgres:latest    "docker-entrypoint.s..."  16 minutes ago    Up 16 minutes      5432/tcp            postgres-lfccc

D:\DevOps\examen1_caceres (0.355s)
docker network ls
NETWORK ID          NAME                DRIVER              SCOPE
5423f89ff163        bridge             bridge              local
1b1a5b017648        host               host                local
4973cf85d7a3        lfccc-red          bridge              local
2d9bec3b2119        none               null                local

D:\DevOps\examen1_caceres (0.485s)
docker network create lfccc-red
4973cf85d7a37aaadd855745b345fb60edfdabf49f3ea7b74f04a790cc1b28e3

D:\DevOps\examen1_caceres (0.393s)
```

```
D:\DevOps\examen1_caceres
docker inspect lfcc-red

{
  "Internal": false,
  "Attachable": false,
  "Ingress": false,
  "ConfigFrom": {
    "Network": ""
  },
  "ConfigOnly": false,
  "Containers": {
    "0cefcf809346e0a0de00275be165578be5ea461b48790a46b161245dd0039053": {
      "Name": "pgAdmin",
      "EndpointID": "1a2ba4bf091edaaccd2e448073ef451b6848ae78684a64635418091541a614c",
      "MacAddress": "12:79:18:b3:f9:a1",
      "IPv4Address": "172.18.0.3/16",
      "IPv6Address": ""
    },
    "6c3e5879b755f0988dd252b46ecfc153b02badf3692d3699271846449db1fa5c": {
      "Name": "postgres-lfcc",
      "EndpointID": "0ab60bdf6a60a448728fc77ccf0db4063e4595b033c9a73dfb710c70d315c1c3",
      "MacAddress": "86:aa:35:7b:ab",
      "IPv4Address": "172.18.0.2/16",
      "IPv6Address": ""
    }
  },
  "Options": {
    "com.docker.network.enable_ipv4": "true",
    "com.docker.network.enable_ipv6": "false"
  },
  "Labels": {}
}

D:\DevOps\examen1_caceres (0.399s)
docker network ls

NETWORK ID        NAME          DRIVER          SCOPE
5423f89ff163     bridge       bridge          local
1b1a5b017648     host         host            local
4973cf85d7a3     lfcc-red     bridge          local
2d90her3b2119    none        null            local
```

pgAdmin 4

hub.docker.com/_/postgres

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.

This optional variable can be used to define another location - like a subdirectory - for the database files. The default is `/var/lib/postgresql/data`. If the data volume you're using is a filesystem mountpoint (like with GCE persistent disks), or remote folder that cannot be chowned to the `postgres` user (like some NFS mounts), or contains folders/files (e.g. `lost+found`), `Postgres initdb` requires a subdirectory to be created within the mountpoint to contain the data.

For example:

```
$ docker run -d \
  --name some-postgres \
  -e POSTGRES_PASSWORD=mysecretpassword \
  -e PGDATA=/var/lib/postgresql/data/pgdata \
  -v /custom/mount:/var/lib/postgresql/data \
  postgres
```

This is an environment variable that is not Docker specific. Because the variable is used by the `postgres` server binary (see the [PostgreSQL docs](#)), the entrypoint script takes it into account.

Docker Secrets

As an alternative to passing sensitive information via environment variables, `_FILE`

