Práctica 6.1

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Despliegue con Docker

En primer lugar vamos a clonar el repositorio

A continuación vamos a configurar el Dockerfile de la siguiente manera:

```
ec2-user@ip-172-31-36-53:~/practica6_2/DAW_practica_6.1_2024

GNU nano 5.8

FROM node:18.16.0-alpine3.17

RUN mkdir -p /opt/app

WORKDIR /opt/app

COPY src/package.json src/package-lock.json .

RUN npm install

COPY src/ .

EXPOSE 3000

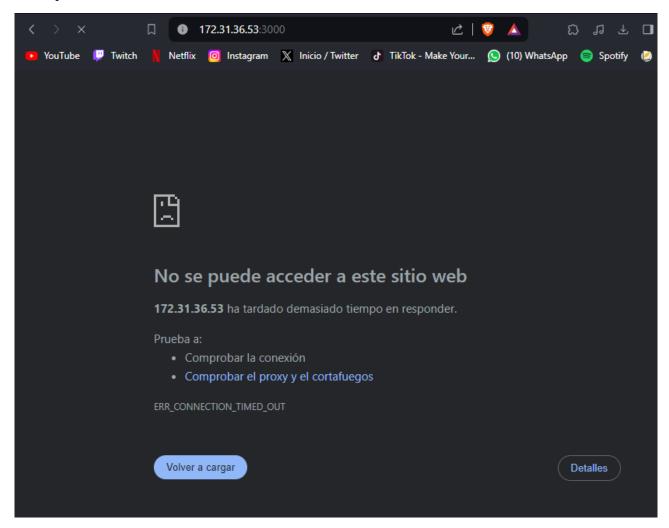
CMD [ "npm", "start"]
```

Después hacemos un build de la imagen de Docker

Y por último iniciamos el contenedor en el puerto 3000

```
[ec2-user@ip-172-31-36-53 DAW_practica_6.1_2024]$ sudo docker run -p 3000:3000 -d librodirecciones
e3499e98be175e0eb621c4a14a5465af6128afa48a0d6370812bcfa41ec91d5b
[ec2-user@ip-172-31-36-53 DAW_practica_6.1_2024]$
```

Por supuesto si nos intentamos conectar nos dará un error de conexión



Docker Compose

Primero instalamos docker-compose que desde un EC2 es un poco más complejo

```
[ec2-user@ip-172-31-36-53 ~]$ sudo curl -L https://github.com/docker/compose/releases/latest/download/docker-compose-$(
name -s)-$(uname -m) -o /usr/local/bin/docker-compose
+x /usr/local/bin/docker-compose
docker-compose version
 sudo chmod +x /usr/local/bin/docker-compose
docker-compose version % Total
                                             % Received % Xferd Average Speed
                                                                                                       Time
                                                                                                                   Time Current
                                          Dload Upload Total Spent Left Speed
0 0 --:--: 0
0 0 --:--: 0
          a
                Ø
                        a
                               a
                                       a
                                      0
          0
                0
                        0
100 58.5M 100 58.5M
                              0
                                                        0 --:--:- 86.8M
                                      0 86.8M
[ec2-user@ip-172-31-36-53 ~]$ sudo chmod +x /usr/local/bin/docker-compose
[ec2-user@ip-172-31-36-53 ~]$ docker-compose version
Docker Compose version v2.24.5
 [ec2-user@ip-172-31-36-53 ~]$ _
```

Tendremos que tener nuestro .yml para describir toda la aplicación.

```
ec2-user@ip-172-31-36-53:~/practica6_2/DAW_practica_6.1_2024
 GNU nano 5.8
ersion: "3.9"
services:
 postgres:
   image: postgres:latest
   environment:
     POSTGRES_USER: postgres
     POSTGRES_PASSWORD: postgres
   ports:
     - '5432:5432'
   volumes:

    addressbook-db:/var/lib/postgresql/data

 addressbook:
   build:
     context: .
   environment:
     DB_SCHEMA: postgres
     DB_USER: postgres
     DB_PASSWORD: postgres
     DB_HOST: postgres
   depends_on:
     - postgres
   ports:
      - '3000:3000'
olumes:
 addressbook-db:
```

Migramos las tablas para crearlas en nuestra base de datos.

```
ec2-user@ip-172-31-36-53 DAW_practica_6.1_2024]$ sudo docker-compose run addressbook npm run migrate
   postgres 14 layers [  c57ee5000d61 Pull complete 81b575116500 Pull complete
                                                               0B/0B
                                                                               Pulled
      e12fff61d996 Pull complete
      50a849db7317 Pull complete
      432dd17f42df Pull complete
     alf5bcbba6b6 Pull complete
6e501216828b Pull complete
ea24c7671c3d Pull complete
b7a5cd7c9b9a Pull complete
      db7d78d9f46e Pull complete
      8c786fbf8634 Pull complete
      2831031f2a0e Pull complete
75c5b068b243 Pull complete
      9590d9e20e85 Pull complete
   Network daw_practica_61_2024_default
   Volume "daw_practica_61_2024_addressbook-db" Created
Container daw_practica_61_2024-postgres-1 Created
 Container daw_practica_61_2024-postgres-1 Started
+] Building 0.6s (11/11) FINISHED
                                                                                                                                                        docker:default
```

Y a continuación construimos el contenedor.

```
[ec2-user@ip-172-31-29-56 DAW_practica_6.1_2024]$ sudo docker-compose up --build -d
[c] Building 0.2s (1/11) FINISHED

docker:default

set practical part of the process of
```

Ahora podemos correr un test para ver que funciona correctamente.

```
ec2-user@ip-172-31-29-56 DAW_practica_6.1_2024]$ sudo docker-compose run addressbook npm test
+] Creating 1/0
Container daw_practica_61_2024-postgres-1 Running

addressbook@1.0.0 test
- jest

console.log
Executing (default): DROP TABLE IF EXISTS "People" CASCADE;

at Sequelize.log (node_modules/sequelize/src/sequelize.js:1280:15)

console.log
Executing (default): SELECT DISTINCT tc.constraint_name as constraint_schema as constraint_schema, tc.constraint_catalog_s tc.table_name_as table_name, tc.constraint_catalog_s tc.table_name_as table_name_tc.table_schema_as table_catalog_scc.table_catalog_scc.table_catalog_scc.table_name_as column_name as column_name,ccu-table_schema_AS referenced_table_catalog_scc.table_name_as column_name.pcc.column_mame_AS referenced_table_catalog_scc.table_name_as referenced_table_name_as referenced_table_name
```

Tarea

GET /persons/all muestra todas las personas en el libro de direcciones

```
[ec2-user@ip-172-31-29-56 DAW_practica_6.1_2024]$ curl -X GET http://localhost:3000/persons/all
[{"id":1,"firstName":"Raúl","lastName":"Profesor","createdAt":"2024-02-11718:03:52.781Z","updatedAt":"2024-02-11718:03:52.781Z"}][ec2-user@ip-172-31-29-56 DAW_practica_6.1_
```

GET /persons/1 muestra la persona con el id 1

```
Lec2-user@ip-172-31-29-56:~/DAW_practica_6.1_2024

[ec2-user@ip-172-31-29-56 DAW_practica_6.1_2024]$ curl -X GET http://localhost:3000/persons/1

["id":1,"firstName":"Raúl","lastName":"Profesor","createdAt":"2024-02-11T18:03:52.781Z","updatedAt":"2024-02-11T18:03:52.781Z"}

Alf
```

PUT /persons/ añade una persona al libro de direcciones

```
[ec2-user@ip-172-31-29-56 DAW_practica_6.1_2024]$ curl -X PUT http://localhost:3000/persons -H 'Content-Type: application/jso
id": 2, "firstName": "Miguel", "lastName": "Pozo"}'
{"firstName":"Miguel","lastName":"Pozo","id":2,"updatedAt":"2024-02-11T18:09:08.201Z","createdAt":"2024-02-11T18:09:08.201Z"}
[ec2-user@ip-172-31-29-56 DAW_practica_6.1_2024]$ curl -X GET http://localhost:3000/persons/2
{"id":2,"firstName":"Miguel","lastName":"Pozo","createdAt":"2024-02-11T18:09:08.201Z","updatedAt":"2024-02-11T18:09:08.201Z"}
@ip-172-31-29-56 DAW_practica_6.1_2024]$
```

DELETE /persons/1 elimina a la persona con el id 1

```
cc2-user@ip-172-31-29-56:~/DAW_practica_6.1_2024

[ec2-user@ip-172-31-29-56 DAW_practica_6.1_2024]$ curl -X DELETE http://localhost:3000/persons/1

[ec2-user@ip-172-31-29-56 DAW_practica_6.1_2024]$ curl -X GET http://localhost:3000/persons/1
null[ec2-user@ip-172-31-29-56 DAW_practica_6.1_2024]$
```