

# Relatório docker 05

Criando a network com o comando :

```
PS C:\Users\Eduardo\Desktop\Docker\ex5> docker network create rede_edu
622d6945fd4e268f8224078b0642a3cc139e059896f268f19da55910d2a8767a
```

Inspecionando a network que acabei de criar:

```
PS C:\Users\Eduardo\Desktop\Docker\ex5> docker network inspect rede_edu
[
  {
    "Name": "rede_edu",
    "Id": "622d6945fd4e268f8224078b0642a3cc139e059896f268f19da55910d2a8767a",
    "Created": "2023-05-23T00:42:18.917184785Z",
    "Scope": "local",
    "Driver": "bridge",
    "EnableIPv6": false,
    "IPAM": {
      "Driver": "default",
      "Options": {},
    },
    "Internal": false,
    "Attachable": false,
    "Ingress": false,
    "ConfigFrom": {
      "Network": ""
    },
    "ConfigOnly": false,
    "Containers": {},
    "Options": {},
    "Labels": {}
  }
]
```

Em seguida baixei a imagem do PostgreSQL:

```
PS C:\Users\Eduardo\Desktop\Docker\ex5> docker pull postgres
Using default tag: latest
latest: Pulling from library/postgres
9e3ea8720c6d: Already exists
7782b3e1be4b: Pull complete
247ec4ff783a: Pull complete
f7ead6900700: Pull complete
e7afdbe9a191: Extracting [=====>] 8.046MB/8.046MB
3ef71fe7cece: Download complete
1459ebb56be5: Download complete
3595124f6861: Verifying Checksum
26ecec90b13: Downloading [==>] 4.307MB/92.35MB
f4809920222b: Download complete
c3f8fa066d45: Download complete
```

Usei o comando abaixo para rodar um container com a imagem Postgres que acabei de baixar configurando as credenciais:

```
PS C:\Users\Eduardo\Desktop\Docker\ex5> docker run -d `
>> --name ex5-backend `
>> --network rede_edu `
>> -e HOST=localhost `
>> -e PORT=8080 `
>> -e PG_HOST=localhost `
>> -e PG_USER=postgres `
>> -e PG_DATABASE=postgres `
>> -e PG_PASSWORD=811944 `
>> -e PG_PORT=5432 `
>> -e JWTSECRET=TypescriptComCafe `
>> -p 8080:8080 `
>> ex5
fd5a4daa6127c78f60fc1e9ad760bdd335d4d43f8a0641d2624e19288d911716
```

Para verificar usei o comando docker inspect:

```
956ac6ef928729e4c31fdb8d90a0b0e761987d93c298ad1ccaa7c90796ed6ec
PS C:\Users\Eduardo\Desktop\Docker\ex5> docker inspect 956ac6ef928729e4c31fdb8d90a0b0e761987d93c298ad1ccaa7c90796ed6ec
```

Resultado:

```
MacAddress": "02:42:ac:12:00:02",
"Networks": {
  "rede_edu": {
    "IPAMConfig": null,
    "Links": null,
    "Aliases": [
      "956ac6ef9287"
    ],
    "NetworkID": "622d6945fd4e268f8224078b0642a3cc139e059896f268f19da55910d2a8767a",
    "EndpointID": "913ffca6a03a1780802190fd813688e147be7c8200e12ac6307caac31c186b1b",
    "Gateway": "172.18.0.1",
    "IPAddress": "172.18.0.2",
    "IPPrefixLen": 16,
    "IPv6Gateway": "",
    "GlobalIPv6Address": "",
    "GlobalIPv6PrefixLen": 0,
    "MacAddress": "02:42:ac:12:00:02",
    "DriverOpts": null
  }
}
```

Conectando ao postgres:

```
PS C:\Users\Eduardo\Desktop\Docker\ex5> docker exec -it postgres psql -U postgres
psql (15.3 (Debian 15.3-1.pgdg110+1))
Type "help" for help.

postgres=#
```

Criando a tabela accounts:

```
postgres=# create table accounts(id serial primary key not null, email varchar(255), name varchar(255), password varchar(60));
CREATE TABLE
postgres=#
```

Inseri um usuário a tabela:

```
postgres=# insert into accounts (email, name, password) values ('user@gmail.com', 'user', 'senha123');
INSERT 0 1
postgres=# select * from accounts;
 id |      email      | name | password
-----+-----+-----+-----
  1 | user@gmail.com | user | senha123
(1 row)

postgres=#
```

Criei o dockerfile:

```
# syntax=docker/dockerfile:1

FROM node:18-alpine
WORKDIR /app
COPY . .
RUN ls
RUN yarn install --production
COPY package*.json .
CMD ["node", "dist/serve.js"]
EXPOSE 3000
```

Criando a imagem:

```
PS C:\Users\Eduardo\Desktop\Docker\ex5> docker build -t ex5 .
[+] Building 59.2s (14/14) FINISHED
=> [internal] load build definition from dockerfile
=> => transferring dockerfile: 220B
=> [internal] load .dockerignore
=> => transferring context: 59B
=> resolve image config for docker.io/docker/dockerfile:1
=> [auth] docker/dockerfile:pull token for registry-1.docker.io
=> CACHED docker-image://docker.io/docker/dockerfile:1@sha256:39b85bbfa7536a5feceb737
=> [internal] load metadata for docker.io/library/node:18-alpine
=> [1/6] FROM docker.io/library/node:18-alpine
```

Verificando a rede:

```
"Containers": {
  "47ca5ee73b69653ce2ad061e2ea670ff73551385db55f6c3d8fbd667ec951a84": {
    "Name": "ex5-backend",
    "EndpointID": "13adfbecbd80b9bcc577552a5155f914d3df42f944483a161c36aae1463d48f3",
    "MacAddress": "02:42:ac:12:00:03",
    "IPv4Address": "172.18.0.3/16",
    "IPv6Address": ""
  },
  "956ac6ef928729e4c31fd8d90a0b0e761987d93c298ad1ccaa7c90796ed6ec": {
    "Name": "postgres",
    "EndpointID": "913ffca6a03a1780802190fd813688e147be7c8200e12ac6307caac31c186b1b",
    "MacAddress": "02:42:ac:12:00:02",
    "IPv4Address": "172.18.0.2/16",
    "IPv6Address": ""
  }
},
}
```

Verificando o se o .env está no container do backend:

```
PS C:\Users\Eduardo\Desktop\Docker\ex5> docker exec -it b972bb5bbe30 ls -a /app
.                .env.example      dockerfile        package.json      tsconfig.json
..               DataBase_commands.sql  node_modules      public            yarn.lock
.dockerignore    dist                package-lock.json  src
```

Fazendo o login no pelo postman:

The screenshot shows a Postman interface for a POST request to `http://localhost:8080/accounts/login`. The request body is a JSON object: `{ "email": "user@gmail.com", "password": "senha123" }`. The response status is `200 OK` with a time of `192ms`. The response body is displayed in a pretty JSON format:

```
1 {
2   "message": "Sucess",
3   "code": 200,
4   "data": {
5     "id": 10
6   },
7   "error": [
8     null
9   ]
10 }
```