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```
GNU nano 7.2      init.sql
CREATE DATABASE IF NOT EXISTS so_teste;

USE so_teste;

CREATE TABLE IF NOT EXISTS aluno (
    id INT PRIMARY KEY AUTO_INCREMENT,
    ra VARCHAR(20),
    nome VARCHAR(100),
    aniversario DATE
) CHARACTER set='utf8mb4';

INSERT INTO aluno VALUES
(null, '0123456', 'Eduardo Verri', '1991-06-16'),
(null, '0254568', 'Marcio Santana', '1953-12-24'),
(null, '0456587', 'Claudio Frizzarini', '1980-05-12')
```


6: Criando o arquivo .yaml

```
ubuntu@ip-172-31-41-168: ~/init-scripts
GNU nano 7.2
services:
  mysql:
    container_name: fynx
    image: mysql:5.7
    restart: always
    environment:
      MYSQL_ROOT_PASSWORD: urubu100
      MYSQL_DATABASE: fynx
    volumes:
      - mysql_data:/var/lib/mysql
      - ./init-scripts:/docker-entrypoint-initdb.d
    ports:
      - "3306:3306"

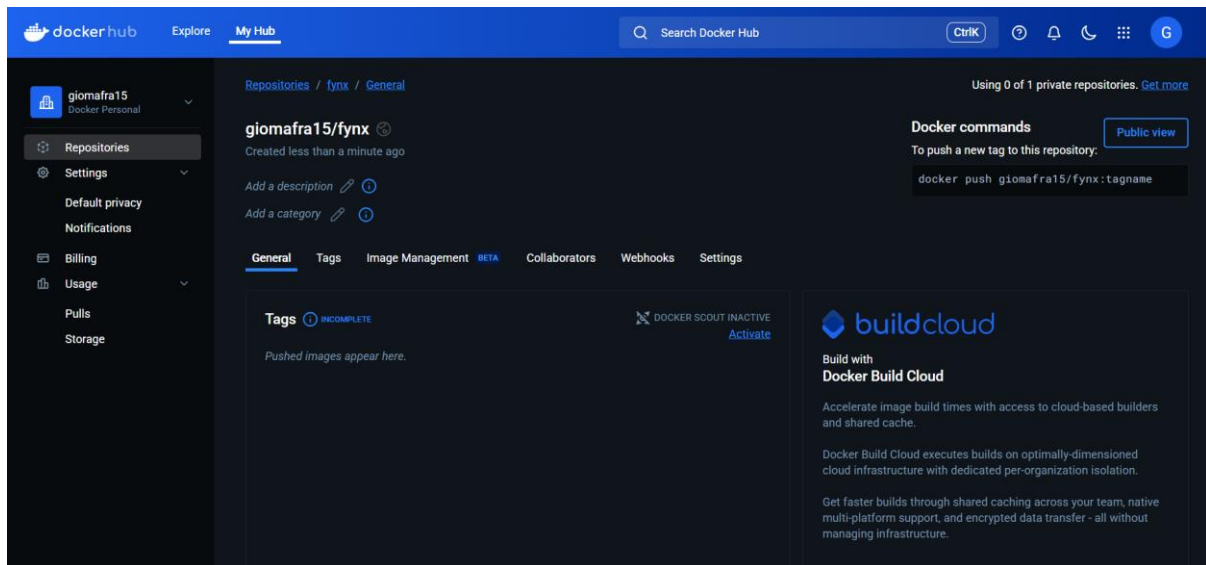
volumes:
  mysql_data:
```

7: Executando o Docker Compose

```
ubuntu@ip-172-31-41-168:~/init-scripts$ sudo docker-compose up -d
[+] Running 3/3
 ✓ Network init-scripts_default      Created
 ✓ Volume "init-scripts_mysql_data" Created
 ✓ Container fynx                    Started
```


Docker Hub

1: Criando Repositório



2: Imagem do site já criada via shell.sh

```
ubuntu@ip-172-31-92-121:~$ sudo docker images
REPOSITORY          TAG          IMAGE ID      CREATED        SIZE
configambiente-node-site latest       31e94e1d1bd7  45 hours ago  1.32GB
mysql               5.7         5107333e08a8  17 months ago 501MB

ubuntu@ip-172-31-92-121:~$ docker ps -a
CONTAINER ID   IMAGE                                COMMAND                  CREATED        STATUS        PORTS
1990369b1df7   configambiente-node-site            "docker-entrypoint.s..." 45 hours ago   Up 20 minutes 0.0.0.0:3333->3333/tcp
, :::3333->3333/tcp node_container
56c70a560aaf   mysql:5.7                          "docker-entrypoint.s..." 45 hours ago   Up 20 minutes 0.0.0.0:3306->3306/tcp
, :::3306->3306/tcp, 33060/tcp mysql_container
```

3: Buildando a imagem do banco

```
ubuntu@ip-172-31-92-121:~$ docker build -t fynx-banco -f dockerfile1 .
DEPRECATED: The legacy builder is deprecated and will be removed in a future release.
Install the buildx component to build images with BuildKit:
https://docs.docker.com/go/buildx/

Sending build context to Docker daemon 284.7MB
Step 1/3 : FROM mysql:latest
latest: Pulling from library/mysql
c2eb5d06bfea: Pull complete
ba361f0ba5e7: Pull complete
0e83af98b000: Pull complete
770e931107be: Pull complete
a2be1b721112: Pull complete
68c594672ed3: Pull complete
cfd201189145: Pull complete
e9f009c5b388: Pull complete
61a291920391: Extracting [=====>] 47.91MB/152.4MB
c8604ede059a: Download complete
```

4: Taggeando a imagem do banco

```

----> Running in d63e843cee81
----> Removed intermediate container d63e843cee81
----> 89503227c566
Step 3/3 : EXPOSE 3306
----> Running in 04e6990dfd9a
----> Removed intermediate container 04e6990dfd9a
----> 94a7d6ff70ed
Successfully built 94a7d6ff70ed
Successfully tagged fynx-banco:latest
ubuntu@ip-172-31-92-121:~$ docker tag fynx-banco giomafra15/fynx-banco:latest

```

5: Fazendo login no dockerHub via terminal

```

ubuntu@ip-172-31-92-121:~$ docker login
Log in with your Docker ID or email address to push and pull images from Docker Hub. If you don't have a Docker ID, head
over to https://hub.docker.com/ to create one.
You can log in with your password or a Personal Access Token (PAT). Using a limited-scope PAT grants better security and
is required for organizations using SSO. Learn more at https://docs.docker.com/go/access-tokens/

Username: giomafra15
Password:
WARNING! Your password will be stored unencrypted in /home/ubuntu/.docker/config.json.
Configure a credential helper to remove this warning. See
https://docs.docker.com/engine/reference/commandline/login/#credentials-store

Login Succeeded

```

6: Subindo imagem do banco para o DockerHub

Repositório do DockerHub: [docker push giomafra15/fynx-banco:tagname](https://hub.docker.com/r/giomafra15/fynx-banco)

```

ubuntu@ip-172-31-92-121:~$ docker push giomafra15/fynx-banco:latest
The push refers to repository [docker.io/giomafra15/fynx-banco]
f5e36b0f4d12: Mounted from library/mysql
d619eelb5c20: Mounted from library/mysql
133ce0df5d7c: Mounted from library/mysql
e1c1cbc5e82d: Mounted from library/mysql
510a7371e11f: Mounted from library/mysql
bdcd7807cb3e: Mounted from library/mysql
ee80289a1f0f: Mounted from library/mysql
a655f286e2fd: Mounted from library/mysql
6fbd0dc178dd: Mounted from library/mysql
30cef8a08884: Mounted from library/mysql
latest: digest: sha256:74640ae554347fa1f50a1e3c71ffe6772c68a95c6caf35ffd7538945c23da8bd size: 2412

```

7: Taggeando a imagem do site

```

ubuntu@ip-172-31-92-121:~$ docker tag configambiente-node-site:latest giomafra15/fynx-site:latest
ubuntu@ip-172-31-92-121:~$ |

```

8: Subindo imagem do site para o DockerHub

Repositório do DockerHub: [docker push giomafral5/fynx-site:tagname](https://hub.docker.com/r/giomafral5/fynx-site)

```
ubuntu@ip-172-31-92-121:~$ docker push giomafral5/fynx-site:latest
The push refers to repository [docker.io/giomafral5/fynx-site]
ca743e81890a: Pushed
5f70bf18a086: Pushed
b46522643327: Pushed
4ef4dcd20f76: Mounted from library/node
438e733c9a0c: Mounted from library/node
f7bcf5aff5f1: Mounted from library/node
2f3ebdcf6a27: Mounted from library/node
bf9c09fb6f3a: Mounted from library/node
fcb8c0ae5d6: Mounted from library/node
8ce3e08e661a: Mounted from library/node
247fffb7158d: Mounted from library/node
latest: digest: sha256:b221c14f1aab3c5953d382f34e4bc11cf2b76006b40350c2f6a5e831b0de2e0f size: 2634
```

Desafio Docker Compose

1: Puxando o repositório do Docker Hub

```
ubuntu@ip-172-31-41-168:~$ sudo docker pull giomafra15/fynx-site:latest
latest: Pulling from giomafra15/fynx-site
cf05a52c0235: Pull complete
63964a8518f5: Pull complete
ca513cad200b: Pull complete
c187b51b626e: Pull complete
68b421cb119c: Pull complete
bf3cd053bbe4: Pull complete
e1dbe5f455cd: Pull complete
a63cf41c258c: Pull complete
975016122085: Pull complete
4f4fb700ef54: Pull complete
77aabf891727: Pull complete
Digest: sha256:b221c14f1aab3c5953d382f34e4bc11cf2b76006b40350c2f6a5e831b0de2e0f
Status: Downloaded newer image for giomafra15/fynx-site:latest
docker.io/giomafra15/fynx-site:latest
ubuntu@ip-172-31-41-168:~$ |
```

2: Estruturando o banco e o site no docker compose:

```
ubuntu@ip-172-31-41-168: ~/init-scripts
GNU nano 7.2
services:
  app:
    image: giomafra15/fynx-site:latest
    ports:
      - "3333:3333"
  mysql:
    container_name: fynx
    image: mysql:5.7
    restart: always
    environment:
      MYSQL_ROOT_PASSWORD: urubu100
      MYSQL_DATABASE: fynx
    volumes:
      - mysql_data:/var/lib/mysql
      - ./init-scripts:/docker-entrypoint-initdb.d
    ports:
      - "3306:3306"

volumes:
  mysql_data:
```


3: Rodando o docker compose:

```

ubuntu@ip-172-31-41-168:~/init-scripts$ sudo docker-compose up
ubuntu@ip-172-31-41-168:~/init-scripts$ sudo docker-compose up
[+] Running 2/2
   ✔ Container init-scripts-app-1 Created
   ✔ Container fynx Created
Attaching to fynx, app-1
fynx | 2025-05-13 16:45:38+00:00 [Note] [Entrypoint]: Entrypoint script for MySQL Server 5.7.44-1.el7 started.
app-1
app-1 | > web-data-viz@1.0.0 start
app-1 | > node app.js
app-1
fynx | 2025-05-13 16:45:38+00:00 [Note] [Entrypoint]: Switching to dedicated user 'mysql'
fynx | 2025-05-13 16:45:38+00:00 [Note] [Entrypoint]: Entrypoint script for MySQL Server 5.7.44-1.el7 started.
app-1
app-1 | ## ## ##### ## ## ##### ## ## ## ## ## ## ## ## ## ##
app-1 | ## ## ## ## ## ## ## ## ## ## ## ## ## ## ## ##
app-1 | ## ## ## ## ## ## ## ## ## ## ## ## ## ## ## ##
app-1 | ## ## ## ## ## ## ## ## ## ## ## ## ## ## ## ##
app-1 | ##### ## ## ## ## ## ## ## ## ## ## ## ## ## ## ##
app-1 | ## ## ## ## ## ## ## ## ## ## ## ## ## ## ## ##
app-1 | ## ## ##### ## ## ## ## ## ## ## ## ## ## ## ## ## ##
app-1
app-1
app-1 | Servidor do seu site já está rodando! Acesse o caminho a seguir para visualizar.: http://localhost:3333 :.
app-1
app-1 | Você está rodando sua aplicação em ambiente de :desenvolvimento:.
app-1
app-1 | Se :desenvolvimento:. você está se conectando ao banco local.
app-1
app-1 | Se :producao:. você está se conectando ao banco remoto.
app-1
app-1
app-1 | Para alterar o ambiente, comente ou descomente as linhas 1 ou 2 no arquivo 'app.js'
fynx | '/var/lib/mysql/mysql.sock' -> '/var/run/mysqld/mysqld.sock'
fynx | 2025-05-13T16:45:39.224768Z o [Warning] TIMESTAMP with implicit DEFAULT value is deprecated. Please use --explicit_defaults_for_timestamp server option (see documentation for more det
fynx),
fynx | 2025-05-13T16:45:39.227572Z o [Note] mysqld (mysqld 5.7.44) starting as process 1 ...
fynx | 2025-05-13T16:45:39.232002Z o [Note] InnoDB: PUNCH HOLE support available
fynx | 2025-05-13T16:45:39.232991Z o [Note] InnoDB: Mutexes and rw_locks use GCC atomic builtins
fynx | 2025-05-13T16:45:39.233092Z o [Note] InnoDB: User event mutexes:
fynx | 2025-05-13T16:45:39.233483Z o [Note] InnoDB: GCC builtin __atomic_thread_fence() is used for memory barrier
fynx | 2025-05-13T16:45:39.233691Z o [Note] InnoDB: Compressed tables use zlib 1.2.13
fynx | 2025-05-13T16:45:39.233844Z o [Note] InnoDB: Using Linux native AIO
fynx | 2025-05-13T16:45:39.234462Z o [Note] InnoDB: Number of pools: 1
fynx | 2025-05-13T16:45:39.234614Z o [Note] InnoDB: Initializing buffer pool, new size 12800 K, by 16 K Allocations

```

4: Site rodando na ec2:

