Mini projet docker:

Vincent THIBAUD

macatools7@gmail.com

Ennoncé:

https://github.com/eazytraining/bootcamp-project-update/tree/main/mini-projet-docker

Repo:

https://github.com/Net-Vthib/mini-projet-docker

Création du dockerfile

```
FROM amazoncorretto:17-alpine

LABEL maintainer="netvthib@gmail.com"

WORKDIR /app

COPY target/paymybuddy.jar /app/paymybuddy.jar

EXPOSE 8080

ENTRYPOINT ["java","-jar","/app/paymybuddy.jar"]
```

Création de l'image

#docker build -t paymybuddy-backend:v1.

```
user@Ubuntu:~/eazytraining_mini-projet/bootcamp-project-update/mini-projet-docker$ docker images
REPOSITORY TAG IMAGE ID CREATED SIZE
mysql 8.0.43 94753e67a0a9 2 days ago 780MB
paymybuddy-backend v1 941ba5b9eca8 3 days ago 334MB
httpd 2.4-alpine 413c1ac706f8 2 months ago 64.6MB
```

Création du docker-compose.yml

```
ser@Ubuntu:~/eazytraining_mini-projet/bootcamp-project-update/mini-projet-docker$
ervices:
mysql:
   image: mysql:8.0.43
   restart: always
   environment:
    MYSQL_DATABASE: ${MYSQL_DATABASE}
    MYSQL ROOT PASSWORD: ${MYSQL ROOT PASSWORD}
    - db data:/var/lib/mysql
      ./initdb:/docker-entrypoint-initdb.d:ro
  healthcheck:
    test: ["CMD-SHELL", "mysqladmin ping -h 127.0.0.1 -p${MYSQL ROOT PASSWORD} || exit 1"]
    interval: 5s
    timeout: 3s
    retries: 30
    start_period: 20s
  image: paymybuddy-backend:v1
  depends on:
    mysql:
      condition: service healthy
    - "8080:8080"
  environment:
    SPRING_APPLICATION_JSON: >
         "server.port": ${SERVER_PORT},
         "spring.datasource.url": "${SPRING_DATASOURCE_URL}",
        "spring.datasource.username": "${SPRING_DATASOURCE_USERNAME}",
"spring.datasource.password": "${SPRING_DATASOURCE_PASSWORD}",
         "spring.jpa.database-platform": "org.hibernate.dialect.MySQL8Dialect"
olumes:
db_data:
```

Création du fichier .env avec les variables

```
user@Ubuntu:~/eazytraining_mini-projet/bootcamp-project-update/mini-projet-docker$ cat .env
# --- MySQL ---
MYSQL_DATABASE=db_paymybuddy
MYSQL_ROOT_PASSWORD=password
# --- Spring (backend) ---
SPRING_DATASOURCE_URL=jdbc:mysql://mysql:3306/db_paymybuddy?useSSL=false&allowPublicKeyRetrieval=true&serverTimezone=UTC
SPRING_DATASOURCE_USERNAME=root
SPRING_DATASOURCE_PASSWORD=password
SERVER_PORT=8080
```

Modification du create.sql de initdb avec ajout de IF NOT EXISTS.

Sinon l'application ne se connecte pas à db_paymybuddy car la base de donnée est déjà existante.

```
user@Ubuntu:-/eazytraining mini-projet/bootcamp-project-update/mini-projet-docker/initdb$ cat create.sql
CREATE DATABASE IF NOT EXISTS db_paymybuddy;
USE db_paymybuddy;

CREATE TABLE IF NOT EXISTS `user` (
    user_id INT NOT NULL PRIMARY KEY AUTO_INCREMENT,
    email VARCHAR(100) NOT NULL,
    firstname VARCHAR(100) NOT NULL,
    lastname VARCHAR(50) NOT NULL,
    balance DECIMAL(10, 2) NOT NULL DEFAULT 0.0
);

CREATE TABLE IF NOT EXISTS `bank_account` (
    account_id INT NOT NULL AUTO_INCREMENT,
    fk user_id INT NOT NULL,
    bank name VARCHAR(100) DEFAULT NULL,
    bank name VARCHAR(30) DEFAULT NULL,
    balance DECIMAL(20,2) NOT NULL DEFAULT 0.0,
    PRIMARY KEY (account_id, fk_user_id),
    FORDIGN KEY (fk_user_id)
        REFERENCES user (user_id)
        ON DELETE NO ACTION ON UPDATE NO ACTION
);

CREATE TABLE IF NOT EXISTS `connection` (
    connection_id INT NOT NULL AUTO_INCREMENT,
    fk_initializer_id INT NOT NULL,
    starting date DATETIME NOT NULL,
    starting date DATETIME NOT NULL,
    starting date DATETIME NOT NULL,
    FOREIGN KEY (fk_initializer_id)
```

#les 2 containers actifs suite au docker compose up

```
user@Ubuntu:~$ docker ps

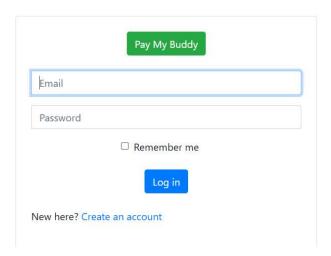
CONTAINER ID IMAGE COMMAND CREATED

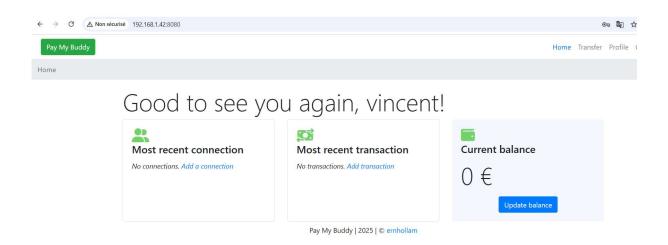
79aa83ec01da mysql:8.0.43 "docker-entrypoint.s..." 6 minutes ago

274a7b91a97f paymybuddy-backend:v1 "java -jar /app/paym..." 7 minutes ago
```

```
PORTS NAMES
3306/tcp, 33060/tcp mini-projet-docker-mysql-1
0.0.0.0:8080->8080/tcp, [::]:8080->8080/tcp mini-projet-docker-backend-1
```

△ Non sécurisé 192.168.1.42:8080/login

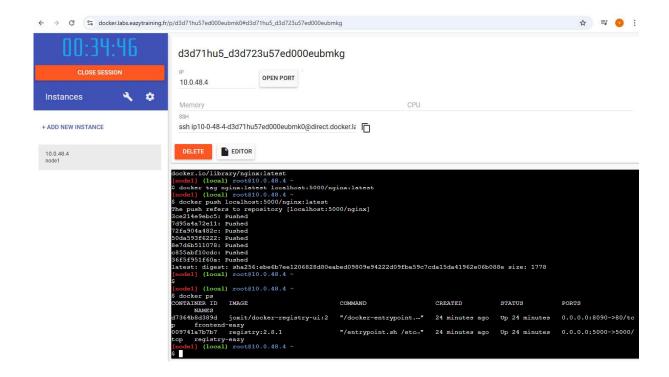




Private registry sur docker play eazytraining

Installation du registre privé

```
docker network create eazy
63bcd816f7500a47a6f1f2a6c3392638e21479f1ed0cf1d39959dc8aa1bb8ac7
 nodel] (local) root@10.0.48.4 ~
 docker run -d \
  -p 5000:5000 \
  --net eazy \
  --name registry-eazy \
  registry:2.8.1
Unable to find image 'registry:2.8.1' locally 2.8.1: Pulling from library/registry
8a49fdb3b6a5: Pull complete
58116d8bf569: Pull complete
55f7fac5d815: Pull complete
fe88d67f473c: Pull complete
32a19664cea7: Pull complete
Digest: sha256:dbaa3e69f563fc146f3337eb9de422f74f6765bf0203c891ddfbd74a6f9b56eb
Status: Downloaded newer image for registry:2.8.1
009741a7b7b774a36a0886fee188681e395cd14cde814548f907e9836695c20a
    el] (local) root@10.0.48.4 ~
$ docker run -d \
  -p 8090:80 \
  --net eazy \
  -e NGINX PROXY PASS URL=http://registry-eazy:5000 \
  -e DELETE_IMAGES=true \
  -e REGISTRY_TITLE=eazytraining \
  --name frontend-eazy \
  joxit/docker-registry-ui:2
d7364b8d389d6f798f8466907ab9e6b937ade3ac91dea87f5552b6357d8aa7e7
 node1] (local) root@10.0.48.4 ~
```



Sur ma vm distante tag et push de l'image de paymybuddy-backend:v1

```
user@Ubuntu:~/eazytraining_mini-projet/bootcamp-project-update/mini-projet-docker$ docker images

REPOSITORY TAG IMAGE ID CREATED SIZE

mysql 8.0.43 94753e67a0a9 5 days ago 780MB

paymybuddy-backend vl 941ba5b9eca8 5 days ago 334MB

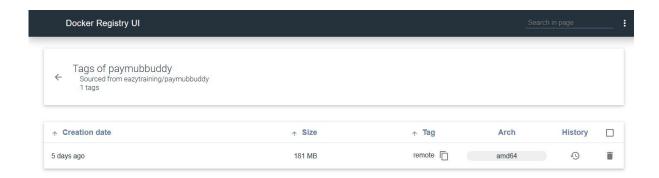
httpd 2.4-alpine 413clac706f8 2 months ago 64.6MB
```

#docker tag paymybuddy-backend:v1 ip10-0-48-4-d3d71hu57ed000eubmk0-5000.direct.docker.labs.eazytraining.fr/paymubbuddy:remote

#docker push ip10-0-48-4-d3d71hu57ed000eubmk0-5000.direct.docker.labs.eazytraining.fr/paymubbuddy:remote

```
user@Ubuntui-/eazytraining_mini-projet/bootcamp-project-update/mini-projet-docker? docker tag paymybuddy-backend:v1 ip10-0-48-4-d3d7lhu57ed000eubmk0-5000.direct.docker.labs.eazytraining.fr/paymubbuddy!remote
user@Ubuntui-/eazytraining_mini-projet/bootcamp-project-update/mini-projet-docker? docker push ip10-0-48-4-d3d7lhu57ed000eubmk0-5000.direct.docker.labs.eazytraining.fr/paymubbuddy!
ddy!remote
The push refers to repository [ip10-0-48-4-d3d7lhu57ed000eubmk0-5000.direct.docker.labs.eazytraining.fr/paymubbuddy]
c240ee/bf8e4: Pushed
dcb7c01e0f1: Pushed
dcb7c01e0f1: Pushed
dl8dccb7d8e3: Pushed
fl8dccb7d8e3: Pushed
remote: digest: sha256:30476947f13bd1630638a77cdcbc72b780a0601a6552258a314e996e8c6dd5cf size: 1159
user@Ubuntui-/eazytraining_mini-projet/bootcamp-project-update/mini-projet-dockerf.
```





Pour l'image de mysql:8.0.43

#docker tag mysql:8.0.43 ip10-0-48-4-d3d71hu57ed000eubmk0-5000.direct.docker.labs.eazytraining.fr/mysql:remote

docker push ip10-0-48-4-d3d71hu57ed000eubmk0-5000.direct.docker.labs.eazytraining.fr/mysql:remote

```
Run 'docker push --help' for more information
user@buntu:-/eazytraining_mini-projet/bootcamp-project-update/mini-projet-docker3 docker push ip10-0-48-4-d3d71hu57ed000eubmk0-5000.direct.docker.labs.eazytraining.fr/mysql:remote
The push refers to repository [ip10-0-48-4-d3d71hu57ed000eubmk0-5000.direct.docker.labs.eazytraining.fr/mysql]
6083c67e889: Pushed
11a688750cb6: Pushed
11a688750cb6: Pushed
1226ea8899e50: Pushed
2026ea8899e50: Pushed
20407re8b684: Pushed
4524ff56f270: Pushed
6587f5892d58) Pushed
6587f58
```



