Projet Docker

Etape 1: Connexion SSH de Gitbash vers la VM

Etape 2 : Faire un Docker pull de Redis et Postgres

```
wassil@wassilvm:~$ docker pull redis
Using default tag: latest
latest: Pulling from library/redis
af107e97837!: Pull complete
b031def5f2c4: Pull complete
bf7f0c8796d3: Pull complete
e3b7e91a4104: Pull complete
e3b7e91a4104: Pull complete
l90b4d7a237a: Pull complete
474f5700ef54: Pull complete
474f570ef54: Pull complete
474f570ef5
```

Etape 3 : Remettre le Registry en cas d'absence de ce dernier

```
wassil@wassilvm:~$ docker run -d -p 5000:5000 --restart always --name registry r
egistry:2
Unable to find image 'registry:2' locally
2: Pulling from library/registry
c926b61bad3b: Pull complete
5501dced60f8: Pull complete
e875fe5e6b9c: Pull complete
21f4bf2f86f9: Pull complete
98513cca25bb: Pull complete
Digest: sha256:0a182cb82c93939407967d6d71d6caf11dcef0e5689c6afe2d60518e3b34ab86
Status: Downloaded newer image for registry:2
bb645ab65b78b26d260f2655672e8488494d02791f6aaaf13feabe257c118b0c
```

Etape 4: Clonage du projet GitHub dans la VM

```
wassil@wassilvm:~\ git clone https://github.com/Wassil91/ynov-resources.git
Cloning into 'ynov-resources'...
remote: Enumerating objects: 402, done.
remote: Counting objects: 100% (30/30), done.
wassil@wassilwm.c/mov.resources(2022/m2/datages/humans-host-friend\ vi_docker_compose vaml
```

Etape 5 : Tag des bases de données

Pour Redis:

wassil@wassilvm:~/ynov-resources/2023/m2/dataeng/humans-best-friend\$ docker tag redis:latest localhost:5000/redis:latest

Pour Postgres:

wassil@wassilvm:~/ynov-resources/2023/m2/dataeng/humans-best-friend\$ vi docker-compose.bullu.ym| wassil@wassilvm:~/ynov-resources/2023/m2/dataeng/humans-best-friend\$ docker tag postgres:15-alpine localhost:5000/postgres:15-alpine

Etape 6 : Création du Docker-compose.build.yml

Pour créer le fichier : vi docker-compose.build.yml

```
- humansbestfriend-network
  redis:
      image: localhost:5000/redis:latest
     volumes:
    - "./healthchecks:/healthchecks"
healthcheck:
         test: /healthchecks/redis.sh
interval: "5s"
     networks:
         - humansbestfriend-network
  db:
   image: localhost:5000/postgres:15-alpine
     environment:
POSTGRES_USER: "postgres_user"
POSTGRES_PASSWORD: "postgres_pwd"
     volumes:
- "db-data:/var/lib/postgresql/data"
- "./healthchecks:/healthchecks"
     healthcheck:
         test: /healthchecks/postgres.sh
interval: "5s"
     networks:
         - humansbestfriend-network
  # this service runs once to seed the database with votes
# it won't run unless you specify the "seed" profile
# docker compose --profile seed up -d
  # docker compose --pi
seed:
  build: ./seed-data
  profiles: ["seed"]
  depends_on:
        vote:
           condition: service_healthy
     networks:
     - humansbestfriend-network restart: "no"
volumes:
  db-data:
networks:
  humansbestfriend-network:
```

Etape 7 : Création du docker-compose.yml

Pour créer ce fichier : docker-compose.yml

```
wassil@wassilom: -/ynov-resources/2023/m2/dataeng/humans-best-friend
services:
vote:
image: humans-best-friend-vote
depends_on:
    redis:
        condition: service_healthy
ports:
        - "5005:80"
networks:
        - humansbestfriend-network

result:
image: humans-best-friend-result
depends_on:
db:
condition: service_healthy
ports:
        - "5004:80"
networks:
        - humansbestfriend-network

worker:
image: humans-best-friend-worker
depends_on:
    redis:
        condition: service_healthy
        db:
            condition: service_healthy
        db:
            condition: service_healthy
networks:
            - humansbestfriend-network

redis:
image: localhost:5000/redis:latest
volumes:
            - ",/healthchecks:/healthchecks"
healthcheck:
            test:/healthchecks/redis.sh
interval: "5s"
networks:
            - humansbestfriend-network

db:
image: localhost:5000/postgres:15-alpine
environment:
            postGRES_USER: "postgres_user"
            postGRES_DASSwORD: "postgres_pwd"
volumes:
            - "db-data:/var/lib/postgresql/data"
            - ",/healthchecks:/healthchecks"
healthcheck:
            test:/healthchecks/postgres.sh
interval: "5s"
networks:
            - "humansbestfriend-network
```

```
- db-data:/var/fib/postgresqi/data

- "./healthchecks:/healthchecks"

healthcheck:

test: /healthchecks/postgres.sh

interval: "5s"

networks:

- humansbestfriend-network

volumes:

db-data:

networks:

humansbestfriend-network:
```

PS: wq! permet de sauvegarder et de quitter sur VI

Etape 8: lancement du docker build

Grace à la commande : docker compose -f docker-compose.build.yml up -d

```
wassilwmassilwmassilwmassilwmassilwmassilwmassilwmassilwmassilwmassilwmassilwmassilwmassilwmassilwmassilwmassilwmassilwmassilwmassilwmassilwmassilwmassilwmassilwmassilwmassilwmassilwmassilwmassilwmassilwmassilwmassilwmassilwmassilwmassilwmassilwmassilwmassilwmassilwmassilwmassilwmassilwmassilwmassilwmassilwmassilwmassilwmassilwmassilwmassilwmassilwmassilwmassilwmassilwmassilwmassilwmassilwmassilwmassilwmassilwmassilwmassilwmassilwmassilwmassilwmassilwmassilwmassilwmassilwmassilwmassilwmassilwmassilwmassilwmassilwmassilwmassilwmassilwmassilwmassilwmassilwmassilwmassilwmassilwmassilwmassilwmassilwmassilwmassilwmassilwmassilwmassilwmassilwmassilwmassilwmassilwmassilwmassilwmassilwmassilwmassilwmassilwmassilwmassilwmassilwmassilwmassilwmassilwmassilwmassilwmassilwmassilwmassilwmassilwmassilwmassilwmassilwmassilwmassilwmassilwmassilwmassilwmassilwmassilwmassilwmassilwmassilwmassilwmassilwmassilwmassilwmassilwmassilwmassilwmassilwmassilwmassilwmassilwmassilwmassilwmassilwmassilwmassilwmassilwmassilwmassilwmassilwmassilwmassilwmassilwmassilwmassilwmassilwmassilwmassilwmassilwmassilwmassilwmassilwmassilwmassilwmassilwmassilwmassilwmassilwmassilwmassilwmassilwmassilwmassilwmassilwmassilwmassilwmassilwmassilwmassilwmassilwmassilwmassilwmassilwmassilwmassilwmassilwmassilwmassilwmassilwmassilwmassilwmassilwmassilwmassilwmassilwmassilwmassilwmassilwmassilwmassilwmassilwmassilwmassilwmassilwmassilwmassilwmassilwmassilwmassilwmassilwmassilwmassilwmassilwmassilwmassilwmassilwmassilwmassilwmassilwmassilwmassilwmassilwmassilwmassilwmassilwmassilwmassilwmassilwmassilwmassilwmassilwmassilwmassilwmassilwmassilwmassilwmassilwmassilwmassilwmassilwmassilwmassilwmassilwmassilwmassilwmassilwmassilwmassilwmassilwmassilwmassilwmassilwmassilwmassilwmassilwmassilwmassilwmassilwmassilwmassilwmassilwmassilwmassilwmassilwmassilwmassilwmassilwmassilwmassilwmassilwmassilwmassilwmassilwmassilwmassilwmassilwmassilwmassilwmassilwmassilwmassilwmassilwmassilwmassilwmassilwmassilwmassilwmassilwmassilwmassilwmassilwmassilwmassilwmassilwmassilwmassilwma
```

```
Container humans-best-friend-ordis-1 leastly

Container humans-best-
```

Etape 9: lancement du docker-compose.yml

```
wassil@wassilvm:~/ynov-resources/2023/m2/dataeng/humans-best-friend$ docker compose up -d

[+] Running 5/5

x Container humans-best-friend-db-1

y Container humans-best-friend-result-1

x Container humans-best-friend-redis-1

y Container humans-best-friend-vote-1

y Container humans-best-friend-worker-1

dependency failed to start: container humans-best-friend-db-1 is unhealthy

wassil@wassilwm: y/move-resources/2023/m2/dataeng/humans-best-friends docker ps
```

Etape 10 : Check des containers démarré sous forme de liste avec :

Docker ps

Pour les containers qui sont stoppé mais pour voir ce qui ont été créé : Docker ps -a

Docker start « nom du container »: pour démarrer un container stoppé