

Projet 1 :

- Connexion sur compte docker hub

```
liti@DESKTOP-TIDTQVU:~/mnt/c/Users/hp/Desktop/projetDocker$ docker login
Authenticating with existing credentials...
WARNING! Your password will be stored unencrypted in /home/liti/.docker/config.json.
Configure a credential helper to remove this warning. See
https://docs.docker.com/engine/reference/commandline/login/#credentials-store

Login Succeeded
```

- Push image wordPress

```

root@DESKTOP-TDCTQO:/mnt/c/Users/hp/Desktop/proje/docker$ docker push litiica659/wordpressdockfile:1.0
The push refers to repository [docker.io/litiica659/wordpressdockfile]
7c6bc37f9d6b: Mounted from library/wordpress
9390f6acda157: Mounted from library/wordpress
f8db865ecd9a: Mounted from library/wordpress
7015c6bc1a61: Mounted from library/wordpress
d8f6a2a069ed: Mounted from library/wordpress
f2b1327ac115: Mounted from library/wordpress
ae5f626a04ff: Mounted from library/wordpress
f251b476f76c: Mounted from library/wordpress
39b04e35566d: Mounted from library/wordpress
51addb9a67b2: Mounted from library/wordpress
90fafd360931: Mounted from library/wordpress
d7ff65317e4e: Mounted from library/wordpress
c748a7d1b3bf: Mounted from library/wordpress
3cb98ef87e89: Mounted from library/wordpress
b897cf086a42: Mounted from library/wordpress
b69431a68981: Mounted from library/wordpress
3f80ba795da1: Mounted from library/wordpress
dad97eb7c8a8: Mounted from library/wordpress
9656c5045c54: Mounted from library/wordpress
055fd147512f: Mounted from library/wordpress
932770f546e06: Mounted from library/wordpress
1.0: digest: sha256:1e790bee9adb9d22512acd49fb5988aa65a4c180dba7d9744dbe9eff80e0ae size: 4711

```

- Build image wordpress

[illegible]

- build mariadb

```

liticia@DESKTOP-T1DC1QU:/mnt/c/Users/hp/Desktop/projetDocker$ docker build -t liticia659/mariadb:latest -f mariadb-dockerfile .
[+] Building 26.1s (6/6) FINISHED
=> [internal] load .dockerignore
=> transferring context: 2kB
=> [internal] load build definition from mariadb-dockerfile
=> transferring dockerfile: 306B
=> [internal] load metadata for docker.io/library/mariadb:latest
[auth] library/mariadb:pull token for registry-1.docker.io
[1/1] FROM docker.io/library/mariadb:latest@sha256:c806c05608804ef21c9f9b33af3ba7d6ccb3df5bc042c3fe294e0bed34089b55
=> resolve docker.io/library/mariadb:latest@sha256:c806c05608804ef21c9f9b33af3ba7d6ccb3df5bc042c3fe294e0bed34089b55
=> sha256:006c05608804ef21c9f9b33af3ba7d6ccb3df5bc042c3fe294e0bed34089b55 979B / 979B
=> sha256:cbe3537751e03e42788c2fbc2d5d336180dc2e20472c8c0ba0b3224191d101 30.45MB / 30.45MB
=> sha256:5bfc0d11f87510f9327f74383b00a0ab670566878722210a9b06962ad00519f73 1.75kB / 1.75kB
=> sha256:15b05a1891a297e2b1ad33c5f4c40846833e964a15204c406841bb19bf8ca4dc 1.99kB / 1.99kB
=> sha256:f8c340abd40f80a61a18057ef4d196c0dd3d0f59b5e8829ee7eb5165a10757 10.13kB / 10.13kB
=> sha256:e018e89b0bd0f4ac4f90c7d2ed58dc4f73aeeb1658c677c727b0a9de02e71bb1 5.65MB / 5.65MB
=> sha256:3e4cf40a40f900d0a061e6cd0ab048efba143849f06e850515113c35837947a 149B / 149B
=> sha256:938b1b815dc06dc58c3bc0d4a9a7973122f1c1d09a080f93c505746184339 313B / 313B
=> sha256:07e00e75320a22c895c243bb3e5683f0180ce474cf8e0d04973a20902136 07.42MB / 07.42MB
=> sha256:82012f0ef36f47d0f315091698b18ac2b64c8de053010025bc0690a8e407d 3.61kB / 3.61kB
=> sha256:6430910462f435d87bfc4d08f7392350b9f400e9262a7cd27d8fed2ae5acace 7.86kB / 7.86kB
=> extracting sha256:cbe3537751e03e42788c2fbc2d5d336180dc2e20472c8c0ba0b3224191d101
=> extracting sha256:5bfc0d11f87510f9327f74383b00a0ab670566878722210a9b06962ad00519f73
=> extracting sha256:e018e89b0bd0f4ac4f90c7d2ed58dc4f73aeeb1658c677c727b0a9de02e71bb1
=> extracting sha256:3e4cf40a40f900d0a061e6cd0ab048efba143849f06e850515113c35837947a
=> extracting sha256:938b1b815dc06dc58c3bc0d4a9a7973122f1c1d09a080f93c505746184339
=> extracting sha256:07e00e75320a22c895c243bb3e5683f0180ce474cf8e0d04973a20902136
=> extracting sha256:82012f0ef36f47d0f315091698b18ac2b64c8de053010025bc0690a8e407d
=> extracting sha256:6430910462f435d87bfc4d08f7392350b9f400e9262a7cd27d8fed2ae5acace
=> exporting to image
=> exporting layers
=> writing image sha256:1e5f4d92731d2995b56c01496048f874ba2096d1658d77d97cd497a05b49acf
=> naming to docker.io/liticia659/mariadb:latest

```

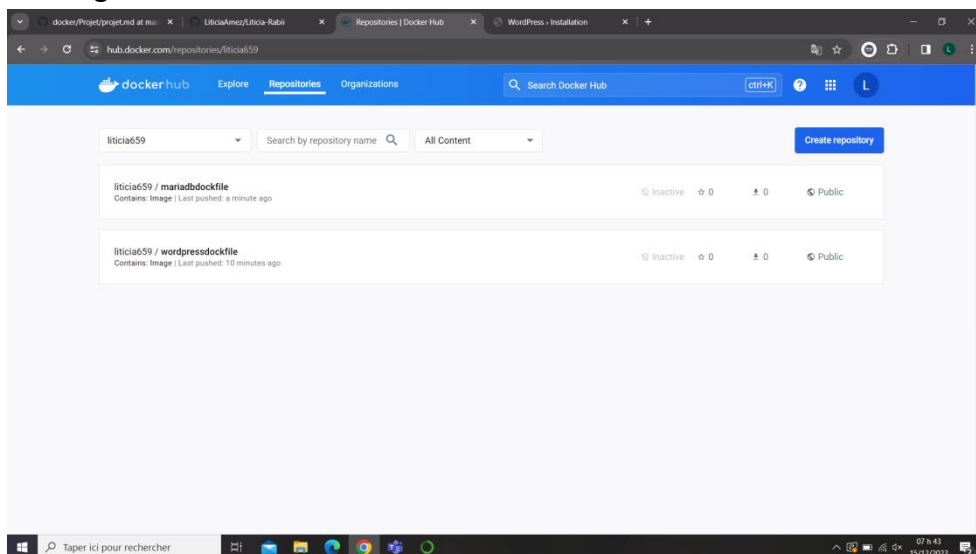
- push mariadb

```

liticia@DESKTOP-T1DC1QU:/mnt/c/Users/hp/Desktop/projetDocker$ docker push liticia659/mariadb:latest
The push refers to repository [docker.io/liticia659/mariadb:latest]
6212fc662829: Mounted from library/mariadb
ee89ba752825: Mounted from library/mariadb
e46052fbd454: Mounted from library/mariadb
363fb3cb0991: Mounted from library/mariadb
cfac55f8d05a: Mounted from library/mariadb
871405073739: Mounted from library/mariadb
4e26bc6368ac: Mounted from library/mariadb
8ceb9643fb36: Mounted from library/mariadb
1.0: digest: sha256:ae4d942fedf3955a31d26bd65e365062f5df958f937372bb643762d63342ae17 size: 1990

```

- les images sur DockerHub



- exécuter la cmd docker-compose up

- Justification des Décisions :
 - Images choisies :
 - Les images officielles sont généralement bien entretenues, mises à jour et sécurisées.
 - Elles sont largement utilisées, ce qui facilite le support communautaire.
 - Variables d'environnement :
 - Ces variables sont standard pour WordPress et garantissent une configuration correcte pour la connexion à la base de données.
 - Réseaux Virtuels Distincts :
 - Séparer les réseaux pour le frontend et le backend limite l'accès non autorisé et suit le principe de moindre privilège.
 - Persistance des Données :
 - L'utilisation d'un volume pour la base de données garantit que les données persistent même après la suppression du conteneur.

Projet 2 :

- Création de la structure de projet

```
lihi@DESKTOP-TIDCTQ: /mnt/c/Users/hp/Desktop/projetDocker/Projet_Docker2/Liticia&Rabii
lihi@DESKTOP-TIDCTQ: /mnt/c/Users/hp/Desktop/projetDocker$ ls
Projet_Docker2  README.md
lihi@DESKTOP-TIDCTQ: /mnt/c/Users/hp/Desktop/projetDocker$ cd Projet_Docker2
lihi@DESKTOP-TIDCTQ: /mnt/c/Users/hp/Desktop/projetDocker/Projet_Docker2$ ls
Prjt.txt
lihi@DESKTOP-TIDCTQ: /mnt/c/Users/hp/Desktop/projetDocker/Projet_Docker2$ rm Prjt.txt
lihi@DESKTOP-TIDCTQ: /mnt/c/Users/hp/Desktop/projetDocker/Projet_Docker2$ git status

On branch master
nothing to commit, working tree clean
lihi@DESKTOP-TIDCTQ: /mnt/c/Users/hp/Desktop/projetDocker/Projet_Docker2$ mkdir "Liticia&Rabii"
lihi@DESKTOP-TIDCTQ: /mnt/c/Users/hp/Desktop/projetDocker/Projet_Docker2$ nano docker-compose.yml
lihi@DESKTOP-TIDCTQ: /mnt/c/Users/hp/Desktop/projetDocker/Projet_Docker2$ nano
lihi@DESKTOP-TIDCTQ: /mnt/c/Users/hp/Desktop/projetDocker/Projet_Docker2$ ls
docker-compose.yml
lihi@DESKTOP-TIDCTQ: /mnt/c/Users/hp/Desktop/projetDocker/Projet_Docker2$ nano docker-compose.yml
lihi@DESKTOP-TIDCTQ: /mnt/c/Users/hp/Desktop/projetDocker/Projet_Docker2$ ls
docker-compose.yml
lihi@DESKTOP-TIDCTQ: /mnt/c/Users/hp/Desktop/projetDocker/Projet_Docker2$ cat docker-compose.yml
version: '3.8'
services:
  elasticsearch-node1:
    image: docker.elastic.co/elasticsearch/elasticsearch:7.15.0
    container_name: es-node1
    environment:
      - node.name=es-node1
      - discovery.seed_hosts=elasticsearch-node2,elasticsearch-node3
      - cluster.initial_master_nodes=es-node1,es-node2,es-node3
      - cluster.name=docker-cluster
    volumes:
      - ./es-cluster:/usr/share/elasticsearch/data
    ports:
      - 9200:9200
    networks:
      - es-net
  elasticsearch-node2:
    image: docker.elastic.co/elasticsearch/elasticsearch:7.15.0
    container_name: es-node2
    environment:
      - node.name=es-node2
      - discovery.seed_hosts=elasticsearch-node1,elasticsearch-node3
      - cluster.initial_master_nodes=es-node1,es-node2,es-node3
      - cluster.name=docker-cluster
    volumes:
      - ./es-cluster:/usr/share/elasticsearch/data
    networks:
      - es-net
  elasticsearch-node3:
    image: docker.elastic.co/elasticsearch/elasticsearch:7.15.0
```

```
lihi@DESKTOP-TIDCTQ: /mnt/c/Users/hp/Desktop/projetDocker/Projet_Docker2/Liticia&Rabii
lihi@DESKTOP-TIDCTQ: /mnt/c/Users/hp/Desktop/projetDocker/Projet_Docker2$ mkdir es-cluster
lihi@DESKTOP-TIDCTQ: /mnt/c/Users/hp/Desktop/projetDocker/Projet_Docker2$ ls
docker-compose.yml  es-cluster
lihi@DESKTOP-TIDCTQ: /mnt/c/Users/hp/Desktop/projetDocker/Projet_Docker2$ cd es-cluster/
lihi@DESKTOP-TIDCTQ: /mnt/c/Users/hp/Desktop/projetDocker/Projet_Docker2/es-cluster$ nano elasticsearch.yml
lihi@DESKTOP-TIDCTQ: /mnt/c/Users/hp/Desktop/projetDocker/Projet_Docker2/es-cluster$ nano kibana.yml
lihi@DESKTOP-TIDCTQ: /mnt/c/Users/hp/Desktop/projetDocker/Projet_Docker2/es-cluster$ ls
elasticsearch.yml  kibana.yml
lihi@DESKTOP-TIDCTQ: /mnt/c/Users/hp/Desktop/projetDocker/Projet_Docker2/es-cluster$ cat kibana.yml
server.name: kibana
elasticsearch.hosts: ["http://elasticsearch-node1:9200"]
lihi@DESKTOP-TIDCTQ: /mnt/c/Users/hp/Desktop/projetDocker/Projet_Docker2/es-cluster$ nano .env
lihi@DESKTOP-TIDCTQ: /mnt/c/Users/hp/Desktop/projetDocker/Projet_Docker2/es-cluster$ cat .env
ES_VERSION=8.11.3
lihi@DESKTOP-TIDCTQ: /mnt/c/Users/hp/Desktop/projetDocker/Projet_Docker2/es-cluster$ ls
elasticsearch.yml  kibana.yml
lihi@DESKTOP-TIDCTQ: /mnt/c/Users/hp/Desktop/projetDocker/Projet_Docker2/es-cluster$ cd ..
lihi@DESKTOP-TIDCTQ: /mnt/c/Users/hp/Desktop/projetDocker/Projet_Docker2$ ls
docker-compose.yml  es-cluster
lihi@DESKTOP-TIDCTQ: /mnt/c/Users/hp/Desktop/projetDocker/Projet_Docker2$ rm .env
rm: cannot remove '.env': No such file or directory
lihi@DESKTOP-TIDCTQ: /mnt/c/Users/hp/Desktop/projetDocker/Projet_Docker2$ cd es-cluster/
lihi@DESKTOP-TIDCTQ: /mnt/c/Users/hp/Desktop/projetDocker/Projet_Docker2/es-cluster$ ls
elasticsearch.yml  kibana.yml
lihi@DESKTOP-TIDCTQ: /mnt/c/Users/hp/Desktop/projetDocker/Projet_Docker2/es-cluster$ rm .env
lihi@DESKTOP-TIDCTQ: /mnt/c/Users/hp/Desktop/projetDocker/Projet_Docker2/es-cluster$ cd ..
lihi@DESKTOP-TIDCTQ: /mnt/c/Users/hp/Desktop/projetDocker/Projet_Docker2$ nano .env
lihi@DESKTOP-TIDCTQ: /mnt/c/Users/hp/Desktop/projetDocker/Projet_Docker2$ ls
docker-compose.yml
lihi@DESKTOP-TIDCTQ: /mnt/c/Users/hp/Desktop/projetDocker/Projet_Docker2$ cat .env
ES_VERSION=8.11.3
lihi@DESKTOP-TIDCTQ: /mnt/c/Users/hp/Desktop/projetDocker/Projet_Docker2$ ls
docker-compose.yml
lihi@DESKTOP-TIDCTQ: /mnt/c/Users/hp/Desktop/projetDocker/Projet_Docker2$ cd Liticia&Rabii/
lihi@DESKTOP-TIDCTQ: /mnt/c/Users/hp/Desktop/projetDocker/Projet_Docker2/Liticia&Rabii$ ls
docker-compose.yml
lihi@DESKTOP-TIDCTQ: /mnt/c/Users/hp/Desktop/projetDocker/Projet_Docker2/Liticia&Rabii$ code
Command 'code' not found, but can be installed with:

sudo snap install code

lihi@DESKTOP-TIDCTQ: /mnt/c/Users/hp/Desktop/projetDocker/Projet_Docker2/Liticia&Rabii$ sudo snap install code
[sudo] password for lihi:
error: This revision of snap "code" was published using classic confinement and thus may perform
arbitrary system changes outside of the security sandbox that snaps are usually confined to,
which may put your system at risk.
```

- Exécution de la commande <<docker ps >>

```
liti@DESKTOP-TIDCTQU:~$ docker ps -a
```

CONTAINER ID	IMAGE	COMMAND	CREATED	STATUS	PORTS	NAMES
4f444fbc2c12	docker.elastic.co/kibana/kibana:8.11.3	"/bin/tini -- /usr/l..."	2 minutes ago	Up 2 minutes	0.0.0.0:5601->5601/tcp, :::5601->5601/tcp	kibana
4b7de3da1146	docker.elastic.co/elasticsearch/elasticsearch:8.11.3	"/bin/tini -- /usr/l..."	2 minutes ago	Up 2 minutes	9200/tcp, 9300/tcp	es02
41ef2684f3f6	docker.elastic.co/elasticsearch/elasticsearch:8.11.3	"/bin/tini -- /usr/l..."	2 minutes ago	Up 2 minutes	0.0.0.0:9200->9200/tcp, :::9200->9200/tcp, 9300/tcp	es01
3250c5178870	docker.elastic.co/elasticsearch/elasticsearch:8.11.3	"/bin/tini -- /usr/l..."	2 minutes ago	Up 2 minutes	9200/tcp, 9300/tcp	es03

```
liti@DESKTOP-TIDCTQU:~$
```

- Lancement de kibana sur le port 5601

