

21/12/18

# TP

## 1. EXERCICE 1

Convert the code of word package 3 composed by a WordPress and a MySQL image to a bridge network. We use mysql :5.7 image, not the latest.

### A. Creation of network & check it

```
MacBook-Pro-de-Ismail:~ imahamat$  
MacBook-Pro-de-Ismail:~ imahamat$ docker network ls | grep eval2  
f3281be39cb4          eval2                bridge              local  
MacBook-Pro-de-Ismail:~ imahamat$
```

### B. Creation of mySQL and WordPress

```
MacBook-Pro-de-Ismail:wp9 imahamat$  
MacBook-Pro-de-Ismail:wp9 imahamat$ docker run -d --name mysql -p 3306:3306 --e MYSQL_ROOT_PASSWORD=root --e MYSQL_DATABASE=root --e MYSQL_USER=root --e MYSQL_PASSWORD=root mysql:5.7
```


```
MacBook-Pro-de-Ismail:wp9 imahamat$ vim docker-compose.yml  
MacBook-Pro-de-Ismail:wp9 imahamat$  
MacBook-Pro-de-Ismail:wp9 imahamat$ docker run --name wordpress -p 10003:80 -d wordpress
```

```
MacBook-Pro-de-Ismail:~ imahamat$ docker ps  
CONTAINER ID   IMAGE      COMMAND                  CREATED        STATUS        PORTS                    NAMES  
f83225c7b957   wordpress  "docker-entrypoint.s..." 10 hours ago  Up 10 hours  0.0.0.0:10003->80/tcp    wordpress  
71861c832920   mysql:5.7  "docker-entrypoint.s..." 10 hours ago  Up 10 hours  3306/tcp, 33060/tcp     mysql  
MacBook-Pro-de-Ismail:~ imahamat$
```

### C. Connexion to the network eval2

```
MacBook-Pro-de-Ismail:~ imahamat$  
MacBook-Pro-de-Ismail:~ imahamat$ docker network connect eval2 wordpress
```

## D. Verification of the network connexion



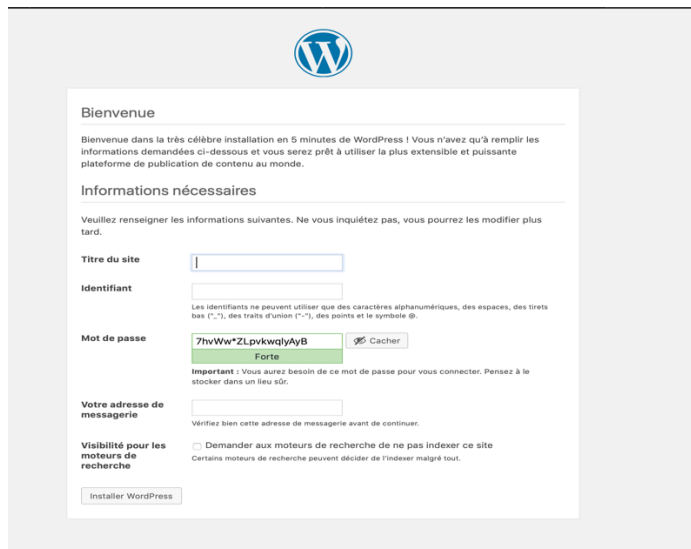
Español de Venezuela  
Español de México  
Español de Costa Rica  
Español de Colombia  
Español de Argentina  
Español de Guatemala  
Español de Perú  
Español de Chile  
Eesti  
Euskara  
فارسی  
Suomi  
**Français**  
Français du Canada

Continuer



Vous devez saisir ci-dessous les détails de connexion à votre base de données. Si vous ne les connaissez pas, contactez votre hébergeur.

Nom de la base de données	<input type="text" value="wordpress"/>	Le nom de la base de données avec laquelle vous souhaitez utiliser WordPress.
Identifiant	<input type="text" value="root"/>	Nom d'utilisateur MySQL.
Mot de passe	<input type="text" value="root"/>	Votre mot de passe de base de données.
Adresse de la base de données	<input type="text" value="mysql"/>	Si localhost ne fonctionne pas, demandez cette information à l'hébergeur de votre site.
Préfixe des tables	<input type="text" value="wp_"/>	Si vous souhaitez faire tourner plusieurs installations de WordPress sur une même base de données, modifiez ce réglage.



The image shows the WordPress installation 'Bienvenue' (Welcome) screen. At the top is the WordPress logo. Below it, a message welcomes the user to the installation and states that they will be able to use the platform after 5 minutes. The 'Informations nécessaires' (Necessary information) section follows, asking for site title, username, password, email, and search engine visibility. The password field shows a strength indicator 'Forte' (Strong). At the bottom is an 'Installer WordPress' button.

We see that now we can connect and work on the WordPress on  
« <http://10.1.168.179:10004/wp-admin/install.php> »

## 2. EXERCICE 2

Create a Docker Compose for this same WordPress and MySQL image.

In the folder eval2, i create a docker-compose.yml file.

```
version: '3.3'

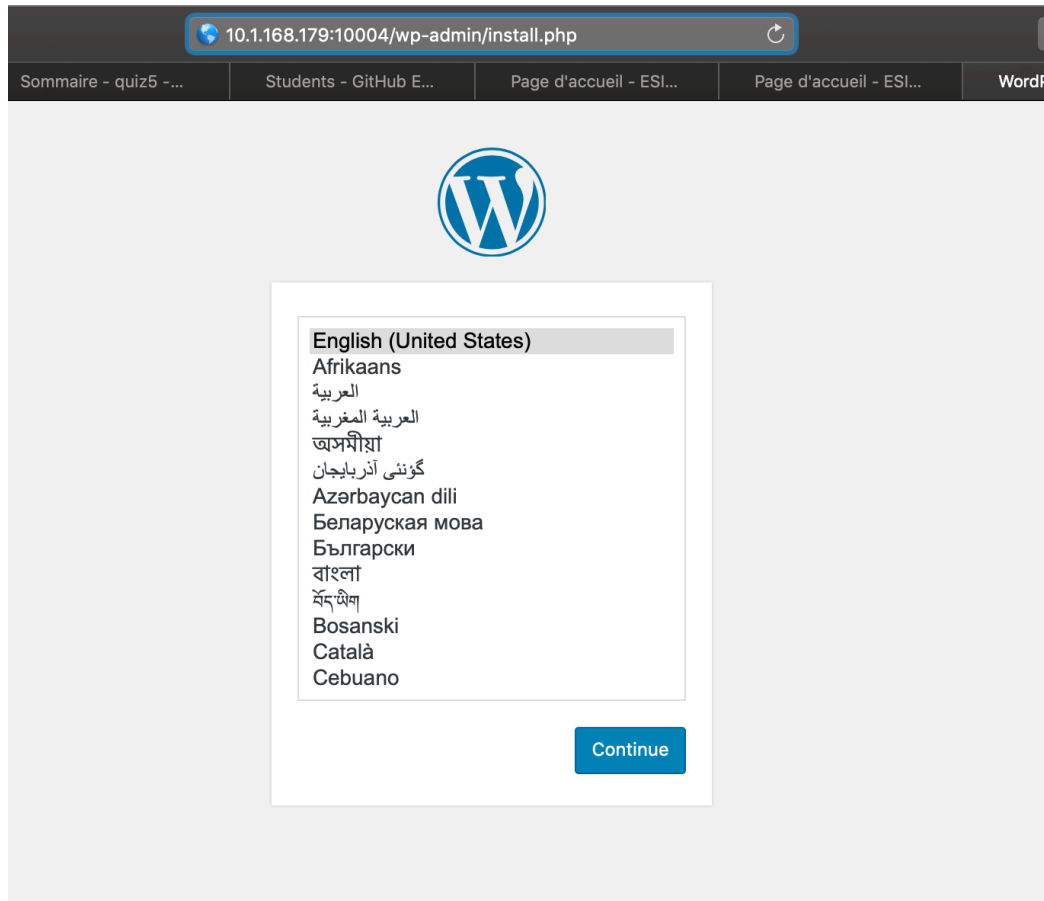
services:
  db:
    image: mysql:5.7
    volumes:
      - db_data:/var/lib/mysql
    restart: always
    environment:
      MYSQL_ROOT_PASSWORD: root
      MYSQL_DATABASE: wordpress
      MYSQL_USER: root
      MYSQL_PASSWORD: root

  wordpress:
    depends_on:
      - db
    image: wordpress:latest
    ports:
      - "10004:80"
    restart: always
    environment:
      WORDPRESS_DB_HOST: db:3306
      WORDPRESS_DB_USER: root
      WORDPRESS_DB_PASSWORD: root
volumes:
  db_data: {}
```

And then i run the command docker-compose up to run it.

```
MacBook-Pro-de-Ismail:eval2 imahamat$
MacBook-Pro-de-Ismail:eval2 imahamat$ Docker-compose up
```

I use the port 1004 for this one. And for cheacking « <http://10.1.168.179:10004/wp-admin/install.php> »



My ip for docker is : 10.1.168.179, I use 10.1.168.179 :1003 for wordpress (exo1) and 10.1.168.179 :1004 for wordpress run with « docker-compose up » (exo2)

### 3. EXERCICE 3

#### A. File.txt

- i. File to print

```
Hello World !
```

- ii. App.py

```
from datetime import datetime
file = open("/res/file.txt","r")
if(file.mode=="r"):
    print(file.read() + "\n" + str(datetime.now()))
```

iii. We create a volume

```
MacBook-Pro-de-Ismail:docker imahamat$ docker volume create --name eval2_Volume
eval2_Volume
MacBook-Pro-de-Ismail:docker imahamat$ █

MacBook-Pro-de-Ismail:docker imahamat$
MacBook-Pro-de-Ismail:docker imahamat$ docker volume inspect eval2_Volume
[
  {
    "CreatedAt": "2018-12-21T10:13:45Z",
    "Driver": "local",
    "Labels": {},
    "Mountpoint": "/var/lib/docker/volumes/eval2_Volume/_data",
    "Name": "eval2_Volume",
    "Options": {},
    "Scope": "local"
  }
]
MacBook-Pro-de-Ismail:docker imahamat$ █
```

iv. We will create a container in order to copy the file.txt and app.py to the volume

```
MacBook-Pro-de-Ismail:docker imahamat$ docker run --name eval2_Volume_Container -v eval2_Volume:/res
busybox true
MacBook-Pro-de-Ismail:docker imahamat$ █
```

v. We copy file.txt and app.py to the volume

```
MacBook-Pro-de-Ismail:docker imahamat$ docker cp app.py eval2_Volume_Container:/res
MacBook-Pro-de-Ismail:docker imahamat$ █
```

```
MacBook-Pro-de-Ismail:docker imahamat$ docker cp file.txt eval2_Volume_Container:/res
MacBook-Pro-de-Ismail:docker imahamat$ █
```

On my docker hub =>

<https://cloud.docker.com/repository/docker/imahamat/wp9/tags>