### **Projet Docker**



### Etape 2:

### Liste des commandes

# docker run -d -p 9000:9000 -v /var/run/docker.sock:/var/run/docker.sock -v portainer\_data:/data portainer/portainer

#Is /usr/share/nginx/html

#mkdir "nom dossier image"

#vi /var/lib/docker/volumes/Mydata/\_data/index.html

#apt update

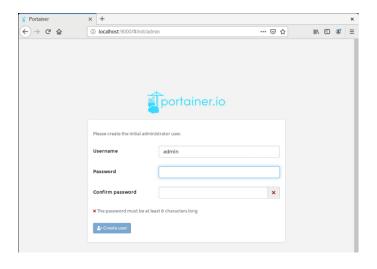
# apt install -y iputils-ping

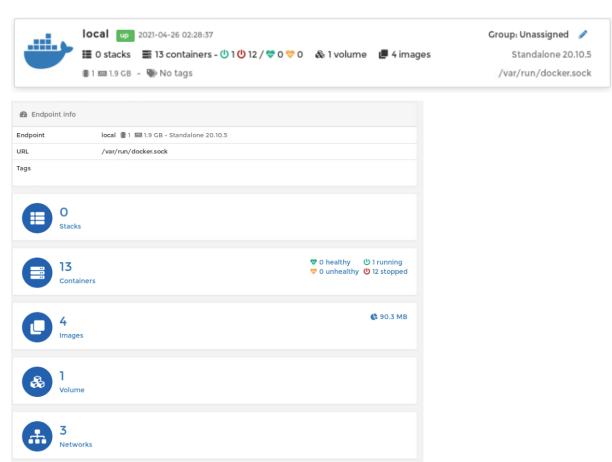
# apt install -y iproute2

Connexion à la BD : #mysql -u root -p

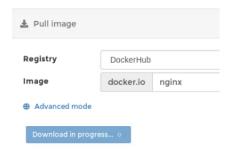
### Installation de portainer

## Visualisation de Portainer en mode graphique sur navigateur





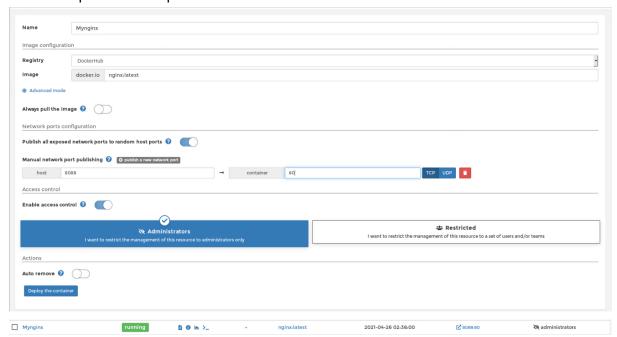
Première création du premier conteneur



### Vérification de la présence du conteneur



### Premier déploiement du premier conteneur



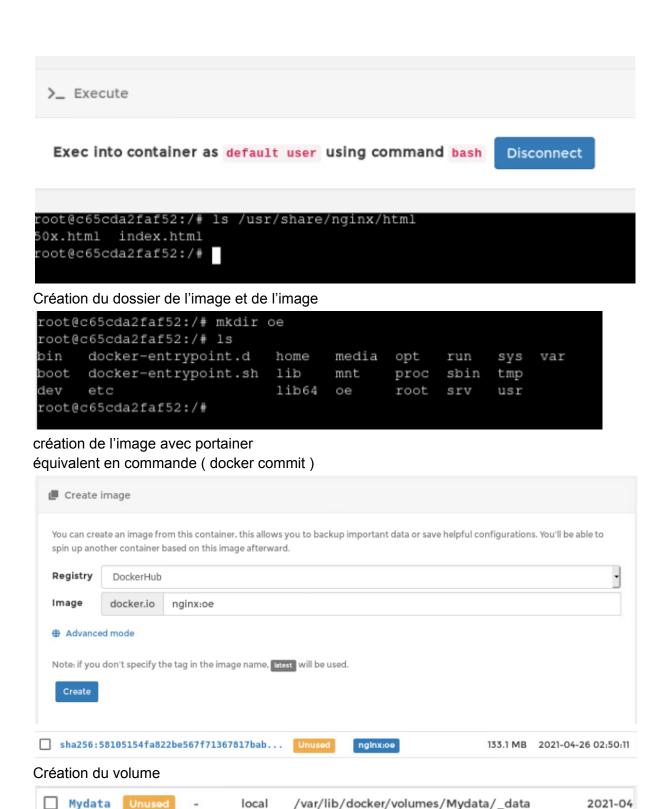
### Test du déploiement précédent

la page web de base de Nginx est affiché donc le service est fonctionnel

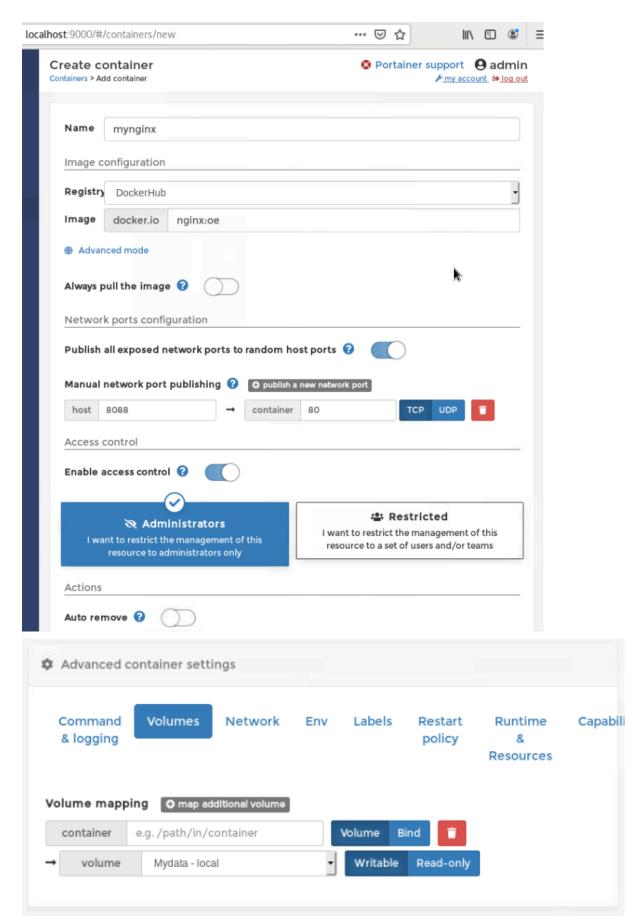


# Création de l'image du conteneur

Connexion au panneau de commande pour modifier le fichier index.html



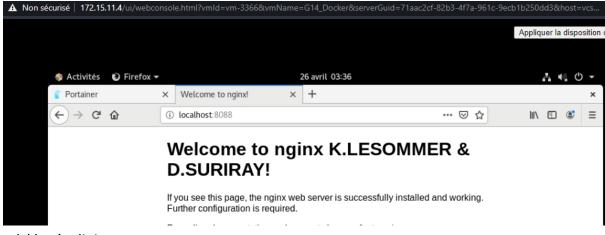
### Deuxième création du premier conteur



Modification test sur le conteneur

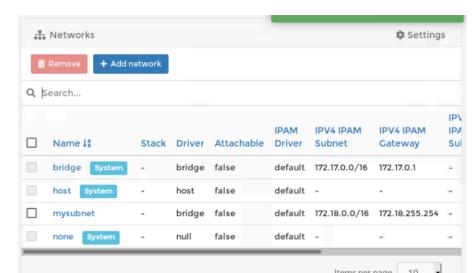
```
Fichier Édition Affichage Rechercher Terminal Aide
<!DOCTYPE html>
<html>
<head>
<title>Welcome to nginx!</title>
<style>
   body {
       width: 35em;
        margin: 0 auto;
        font-family: Tahoma, Verdana, Arial, sans-serif;
</style>
</head>
<body>
<h1>Welcome to nginx K.LESOMMER & D.SURIRAY ^^!</h1>
If you see this page, the nginx web server is successfully installed and
working. Further configuration is required.
For online documentation and support please refer to
<a href="http://nginx.org/">nginx.org</a>.<br/>
Commercial support is available at
<a href="http://nginx.com/">nginx.com</a>.
<em>Thank you for using nginx.</em>
</body>
</html>
```

#### voici le fichier index.html modifié pour tests



voici le résultat

### Création et placement des conteneurs dans un réseau



### création d'un sous réseau équivalent commandes ( docker network create )



IP mynginx: 172.18.0.1 IP mynginxkd: 172.18.0.2

#### Test de communication entre les machines

```
root@f7fae021eb40:/# ping 172.18.0.1

PING 172.18.0.1 (172.18.0.1) 56(84) bytes of data.

64 bytes from 172.18.0.1: icmp_seq=1 ttl=64 time=0.211 ms

64 bytes from 172.18.0.1: icmp_seq=2 ttl=64 time=0.125 ms

64 bytes from 172.18.0.1: icmp_seq=3 ttl=64 time=0.128 ms

64 bytes from 172.18.0.1: icmp_seq=4 ttl=64 time=0.120 ms

64 bytes from 172.18.0.1: icmp_seq=5 ttl=64 time=0.129 ms

64 bytes from 172.18.0.1: icmp_seq=6 ttl=64 time=0.276 ms

64 bytes from 172.18.0.1: icmp_seq=6 ttl=64 time=0.099 ms

^C

--- 172.18.0.1 ping statistics ---

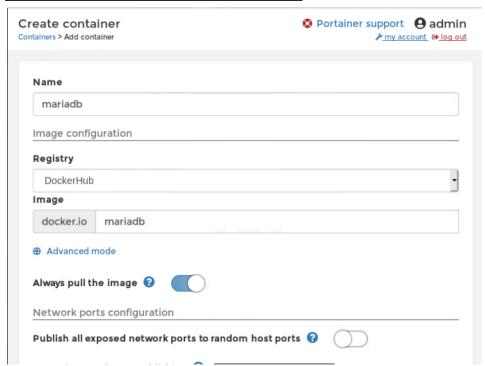
7 packets transmitted, 7 received, 0% packet loss, time 152ms

rtt min/avg/max/mdev = 0.099/0.155/0.276/0.060 ms

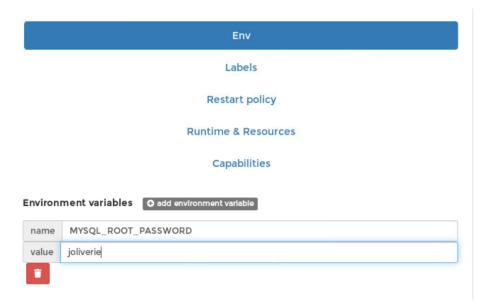
root@f7fae021eb40:/#
```

On remarque que les machines communiquent donc le réseau créé est fonctionnel

### Création du conteneur mariadb



### création de la variable d'environnement



Test d'accès à la base de données

```
root@f2fb1c50ad0d:/# mysql -u root -p
Enter password:
Welcome to the MariaDB monitor. Commands end with ; or \gray{g}.
Your MariaDB connection id is 4
Server version: 10.5.9-MariaDB-1:10.5.9+maria~focal mariadb.org binary
distribution
Copyright (c) 2000, 2018, Oracle, MariaDB Corporation Ab and others.
Type 'help;' or '\h' for help. Type '\c' to clear the current input sta
tement.
MariaDB [(none)]> show databases
 Database
 information_schema
 mysql
 performance_schema
3 rows in set (0.001 sec)
MariaDB [(none)]>
```

# Vérification des logs du conteneur docker logs ( id conteneur )

```
2021-04-26 8:22:46 0 [Note] Plugin 'FEEDBACK' is disabled.
2021-04-26 8:22:46 0 [Note] InnoDB: Loading buffer pool(s) from /var/lib/mysql/ib_b
uffer_pool
2021-04-26 8:22:46 0 [Note] InnoDB: Buffer pool(s) load completed at 210426 8:22:4
6
2021-04-26 8:22:46 0 [Note] Server socket created on IP: '::'.
2021-04-26 8:22:46 0 [Warning] 'proxies_priv' entry '@% root@f2fb1c50ad0d' ignored
in --skip-name-resolve mode.
2021-04-26 8:22:46 0 [Note] Reading of all Master_info entries succeeded
2021-04-26 8:22:46 0 [Note] Added new Master_info '' to hash table
2021-04-26 8:22:46 0 [Note] mysqld: ready for connections.
Version: '10.5.9-MariaDB-1:10.5.9+maria~focal' socket: '/run/mysqld/mysqld.sock' p
ort: 3306 mariadb.org binary distribution
```

l'accès est bien fait mais il y a deux heures d'écarts notés dans les logs lors de la réalisation de l'étape