

Brief 5: Stack Wordpress conteneurisée dans AZURE

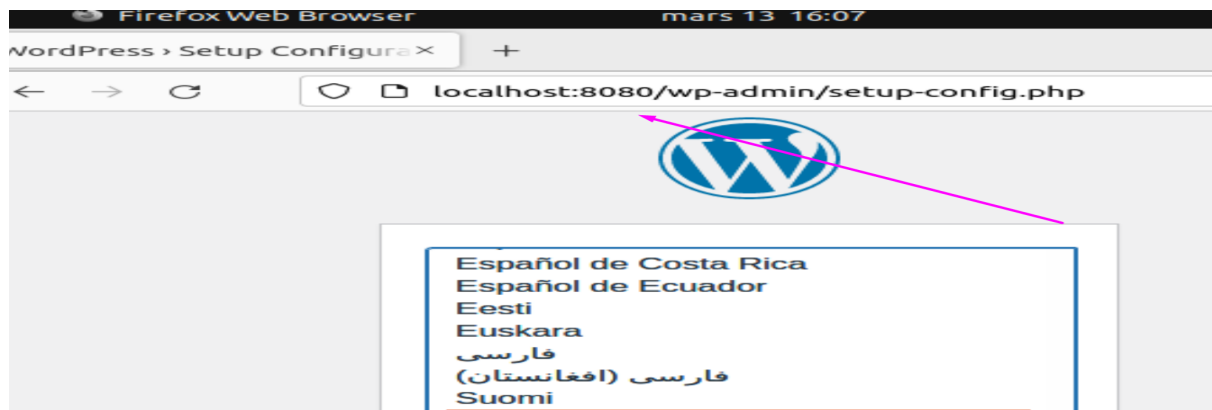
1/ Pour démarrer, créez un conteneur Wordpress joignable sur le port 8080 à partir de l'image officielle de Wordpress disponible dans Docker Hub.

Commande : `docker run -d -p 8080:80 --name lylwordpress`

```
seconds
prana
027054f4671b    wordpress    "docker-entrypoint.s..."    2 minutes
d
es
457eff7df919    wordpress    "docker-entrypoint.s..."    3 minutes
(0) 21 seconds ago
leakey
ee18aae67089    wordpress    "docker-entrypoint.s..."    5 minutes
(0) 21 seconds ago
aplygin
161142deee2a    debian      "bash"                        42 minute
(0) 42 minutes ago
atterjee
0f62a50018eb    debian      "bash"                        About an
(0) About an hour ago
on
beaeb18dee25    debian      "bash"                        2 hours a
(127) About an hour ago
ser
b84583629e09    debian      "bash"                        2 hours a
(0) 2 hours ago
ri
ylla@vm1-docker:~$ docker run -d wordpress
2f8fdc48099e60567a3d2181a00e2d3a37c526868eaff7267c8c847276671
ylla@vm1-docker:~$ docker run -p 8080:80 -d wordpress
```

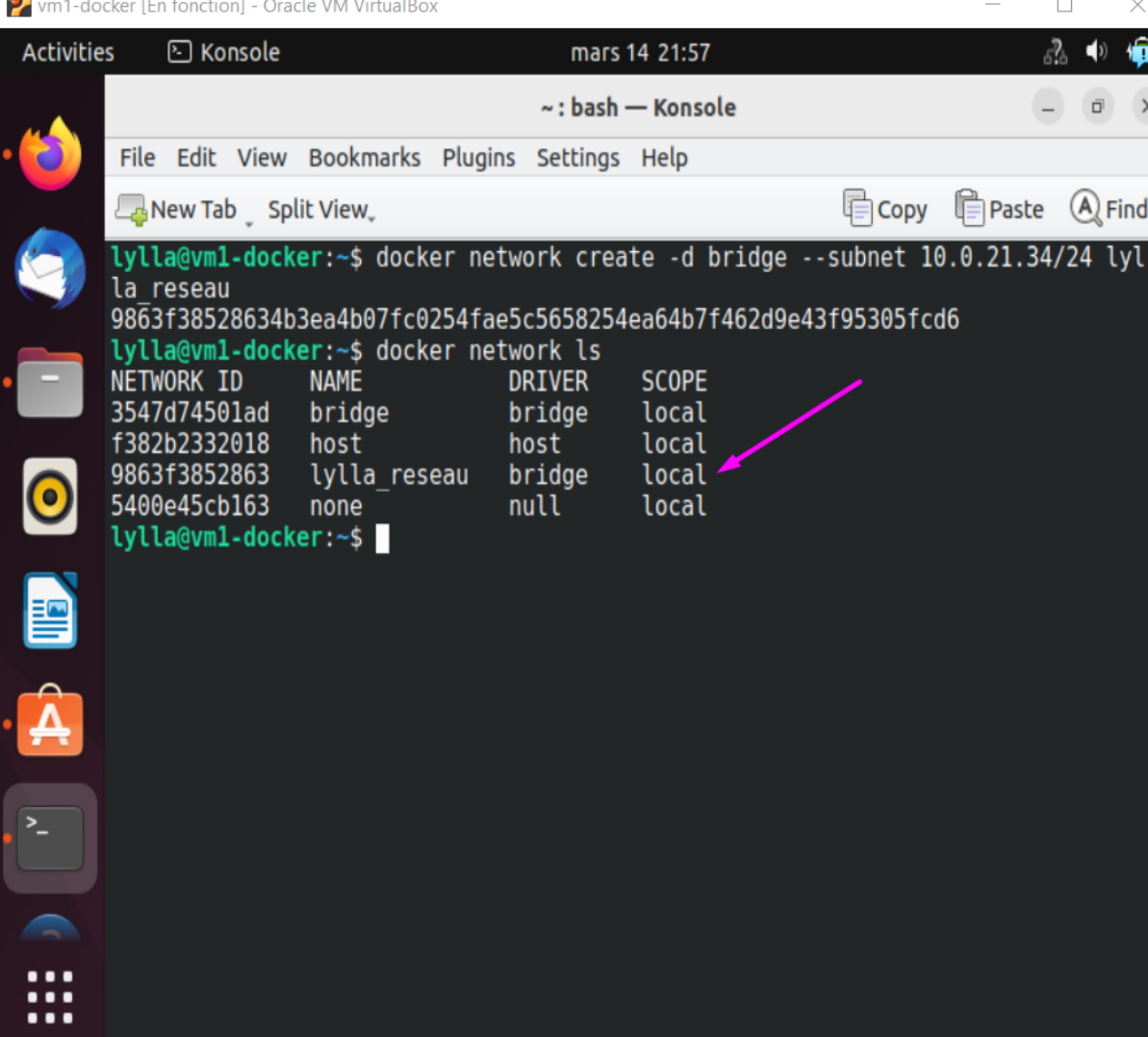
2/ Visitez ce Wordpress dans le navigateur.

localhost:8080



Création réseau en mode Bridge via

Commande : `docker network create -d bridge --subnet 10.0.21.34 lyl्ला_reseau`



The screenshot shows a terminal window titled "vm1-docker [En fonction] - Oracle VM VirtualBox". The terminal output is as follows:

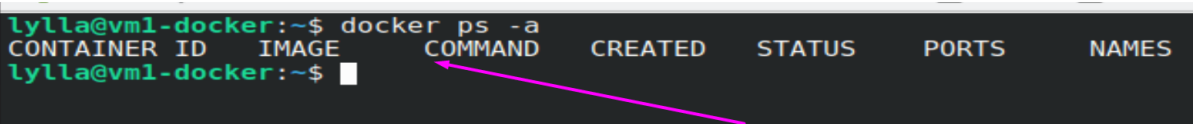
```
lylla@vm1-docker:~$ docker network create -d bridge --subnet 10.0.21.34/24 lyl्ला_reseau
9863f38528634b3ea4b07fc0254fae5c5658254ea64b7f462d9e43f95305fcd6
lylla@vm1-docker:~$ docker network ls
NETWORK ID        NAME          DRIVER  SCOPE
3547d74501ad     bridge       bridge  local
f382b2332018     host         host    local
9863f3852863     lyl्ला_reseau  bridge  local
5400e45cb163     none         null    local
```

A pink arrow points to the 'lylla_reseau' network entry in the table.

3/ Vous allez pouvoir accéder au Wordpress, mais il n'a pas encore de base MySQL configurée.

4/ Arrêtez et supprimez le conteneur Wordpress précédemment créé.

Commande : `docker stop lylwordpress` et `docker rm lylwordpress`
ou `docker rm -f lylwordpress`

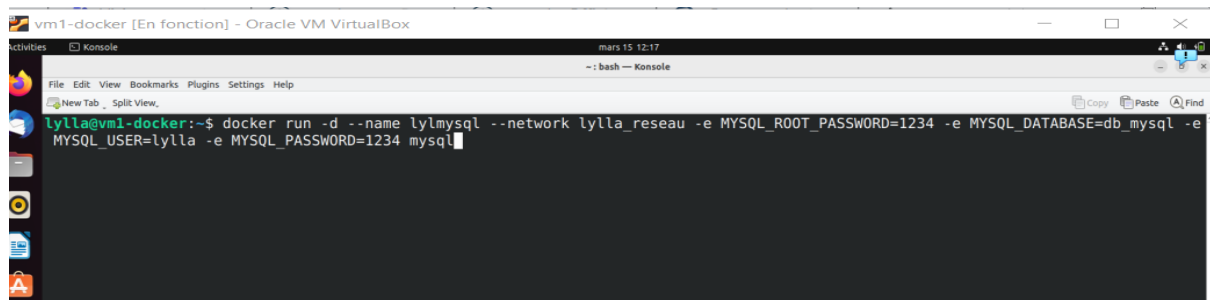


The screenshot shows a terminal window with the command `docker ps -a` entered. The output is a table with columns: CONTAINER ID, IMAGE, COMMAND, CREATED, STATUS, PORTS, and NAMES. A pink arrow points to the 'COMMAND' column header.

| CONTAINER ID | IMAGE | COMMAND | CREATED | STATUS | PORTS | NAMES |
|--------------|-------|---------|---------|--------|-------|-------|
|--------------|-------|---------|---------|--------|-------|-------|

5/ Configuration MYSQL à partir **de variables d'environnement** disponible dans Docker Hub.
==> Utilisation des variables d'environnement pour préciser le mot de passe root, le nom de la base de données et le nom et mot de passe d'utilisateur de la base de données (Voir la documentation sur Docker Hub).

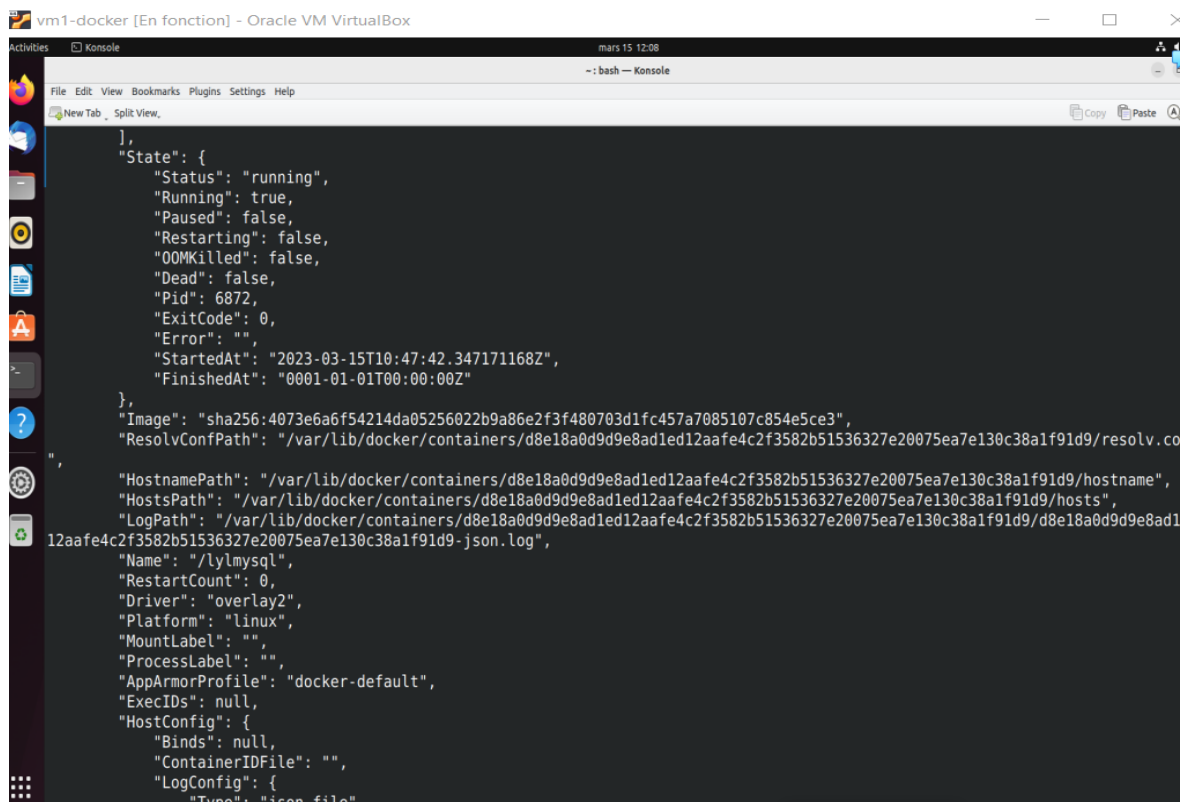
Commande : `docker run -d --name lylmysql --network lylla_reseau -e MYSQL_ROOT_PASSWORD=1234 -e MYSQL_DATABASE=db_mysql -e MYSQL_USER=lylla -e MYSQL_PASSWORD=1234 mysql`



```
lylla@vm1-docker:~$ docker run -d --name lylmysql --network lylla_reseau -e MYSQL_ROOT_PASSWORD=1234 -e MYSQL_DATABASE=db_mysql -e MYSQL_USER=lylla -e MYSQL_PASSWORD=1234 mysql
```

6/ Inspectez le conteneur MySQL avec ****docker inspect**** et analysez ce que cela donne.

Commande : `docker inspect lylsql`



```
{
  "State": {
    "Status": "running",
    "Running": true,
    "Paused": false,
    "Restarting": false,
    "OOMKilled": false,
    "Dead": false,
    "Pid": 6872,
    "ExitCode": 0,
    "Error": "",
    "StartedAt": "2023-03-15T10:47:42.347171168Z",
    "FinishedAt": "0001-01-01T00:00:00Z"
  },
  "Image": "sha256:4073e6a6f54214da05256022b9a86e2f3f480703d1fc457a7085107c854e5ce3",
  "ResolvConfPath": "/var/lib/docker/containers/d8e18a0d9d9e8ad1ed12aafe4c2f3582b51536327e20075ea7e130c38a1f91d9/resolv.co",
  "HostnamePath": "/var/lib/docker/containers/d8e18a0d9d9e8ad1ed12aafe4c2f3582b51536327e20075ea7e130c38a1f91d9/hostname",
  "HostsPath": "/var/lib/docker/containers/d8e18a0d9d9e8ad1ed12aafe4c2f3582b51536327e20075ea7e130c38a1f91d9/hosts",
  "LogPath": "/var/lib/docker/containers/d8e18a0d9d9e8ad1ed12aafe4c2f3582b51536327e20075ea7e130c38a1f91d9/d8e18a0d9d9e8ad1",
  "Name": "/lylmysql",
  "RestartCount": 0,
  "Driver": "overlay2",
  "Platform": "linux",
  "MountLabel": "",
  "ProcessLabel": "",
  "AppArmorProfile": "docker-default",
  "ExecIDs": null,
  "HostConfig": {
    "Binds": null,
    "ContainerIDFile": "",
    "LogConfig": {
      "Type": "json-file",
```

7/ Créez un nouveau conteneur Wordpress joignable à partir de l'image officielle de Wordpress disponible dans Docker Hub

Commande : `docker run -d -p 8080:80 --name lylwordpress --network lylla_reseau -e WORDPRESS_DB_HOST=lylmysql:3306 -e WORDPRESS_DB_USER=lylla -e WORDPRESS_DB_PASSWORD=1234 -e WORDPRESS_DB_name=db_mysql wordpress`

```
lylla@vm1-docker:~$ docker ps -a
CONTAINER ID   IMAGE      COMMAND                  CREATED        STATUS        PORTS                    NAMES
a42c43d8ae5e   mysql     "docker-entrypoint.s..." 2 hours ago   Up 2 minutes   3306/tcp, 33060/tcp      lylmysql
a7b3ad9eae42   lyllablog3 "sleep 500"              21 hours ago   Exited (0) 17 hours ago   anais1
7f56f69d7e8b   lyllablog1 "/bin/sleep 3600"        22 hours ago   Exited (0) 21 hours ago   anais1
551bf686e64f   lyllablog "bash"                   22 hours ago   Exited (0) 22 hours ago   blabla
lylla@vm1-docker:~$ docker run -d -p 8080:80 --name lylwordpress --network lylla_reseau -e WORDPRESS_DB_HOST=lylmysql:3306 -e WORDPRESS_DB_USER=lylla -e WORDPRESS_DB_PASSWORD=1234 -e WORDPRESS_DB_NAME=db_mysql wordpress
dc268a65810592b97741a9afb10424b2b50d389edaee322ee38a8409510c45cc
lylla@vm1-docker:~$
```

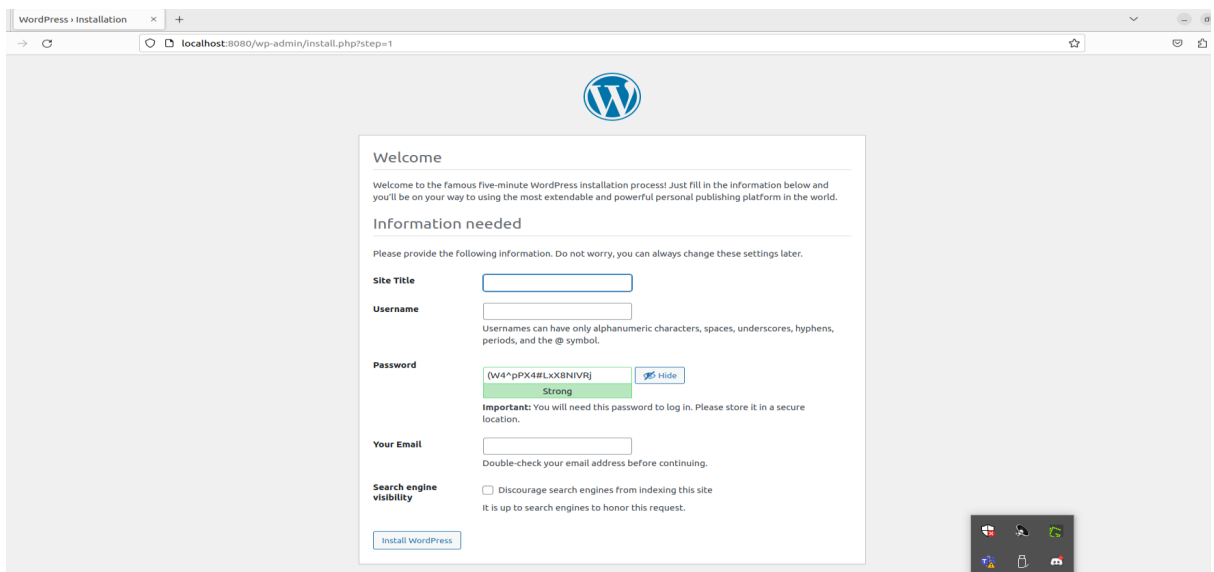
8/ Analysez les logs du conteneur Wordpress avec **docker logs**.

Commande : `docker logs lylwordpress`

On note que Wordpress n'avait pas complètement copié le dossier "wp-config.php" au départ, puis a rectifié et copié la totalité du dossier "wp-config.php" dans var/www/html

```
lylla@vm1-docker:~$ docker logs lylwordpress
WordPress not found in /var/www/html - copying now...
Complete! WordPress has been successfully copied to /var/www/html
No 'wp-config.php' found in /var/www/html, but 'WORDPRESS ...' variables supplied; copying 'wp-config-docker.php' (WORDPRESS_DB_HOST=WORDPRESS_DB_HOST WORDPRESS_DB_NAME=WORDPRESS_DB_NAME WORDPRESS_DB_PASSWORD=WORDPRESS_DB_PASSWORD WORDPRESS_DB_USER=WORDPRESS_DB_USER)
AH00558: apache2: Could not reliably determine the server's fully qualified domain name, using 10.0.21.3. Set the 'ServerName' directive globally to suppress this message
AH00558: apache2: Could not reliably determine the server's fully qualified domain name, using 10.0.21.3. Set the 'ServerName' directive globally to suppress this message
[Wed Mar 15 13:05:40.403059 2023] [mpm_prefork:notice] [pid 1] AH00163: Apache/2.4.54 (Debian) PHP/8.0.28 configured -- resuming normal operations
```

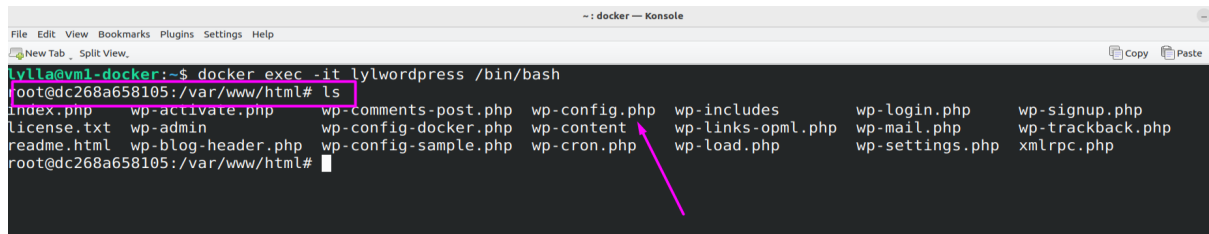
9/ Visitez votre application Wordpress
localhost:8080



10/ Pouvez-vous localiser le fichier “wp-config.php”

Commande : `docker exec -it lylwordpress /bin/bash`

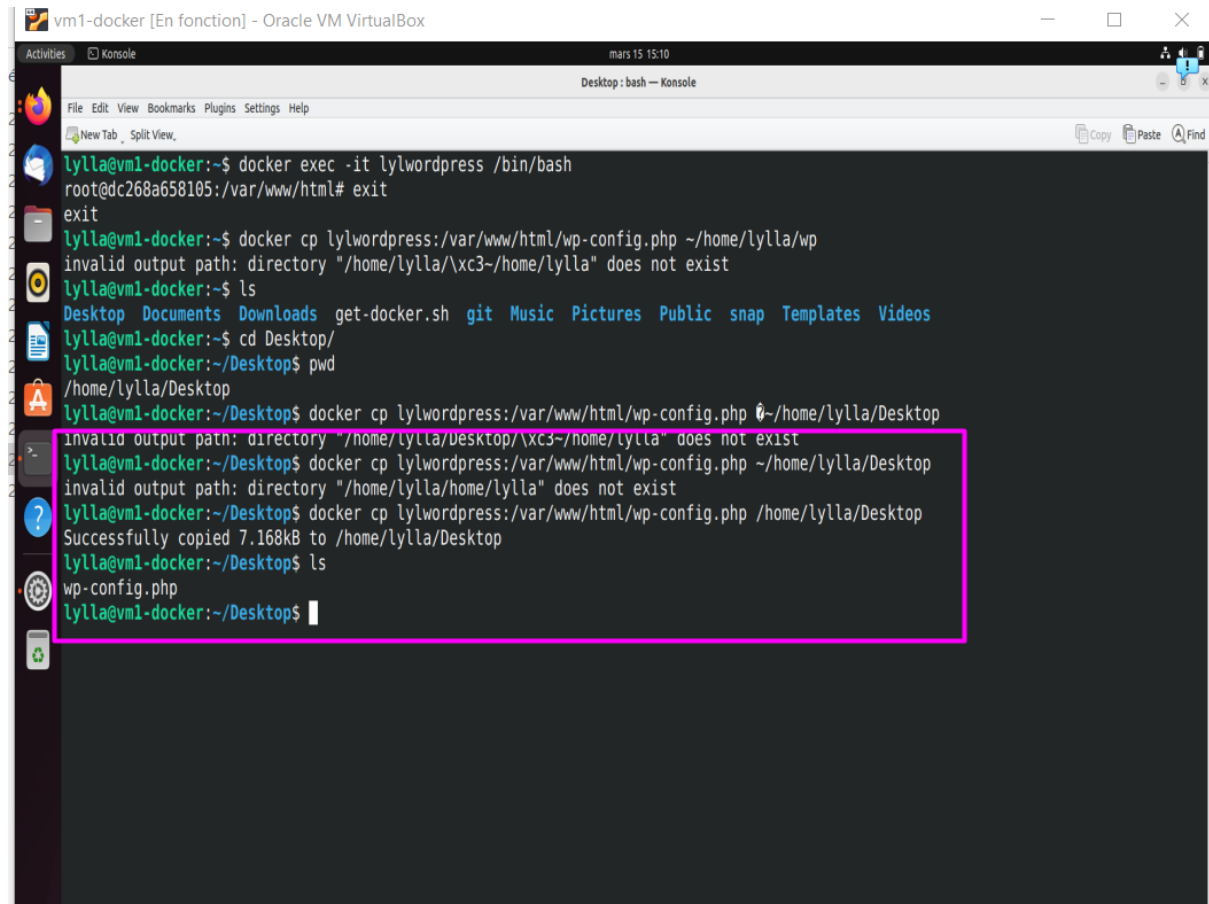
une fois dans le conteneur, on exécute la commande `ls` pour voir la liste des dossiers.



```
lylla@vm1-docker:~$ docker exec -it lylwordpress /bin/bash
root@dc268a658105:/var/www/html# ls
index.php  wp-admin  wp-comments-post.php  wp-config.php  wp-includes  wp-login.php  wp-signup.php
license.txt wp-activate.php  wp-config-docker.php  wp-content  wp-links-opml.php  wp-mail.php  wp-trackback.php
readme.html wp-blog-header.php  wp-config-sample.php  wp-cron.php  wp-load.php  wp-settings.php  xmlrpc.php
root@dc268a658105:/var/www/html#
```

Copier le dossier “wp-config.php” sur l’hôte

Commande : `docker cp lylwordpress:/var/www/html/wp-config.php /home/lylla/Desktop`



```
vm1-docker [En fonction] - Oracle VM VirtualBox
mars 15 15:10
Desktop: bash -- Konsole
lylla@vm1-docker:~$ docker exec -it lylwordpress /bin/bash
root@dc268a658105:/var/www/html# exit
exit
lylla@vm1-docker:~$ docker cp lylwordpress:/var/www/html/wp-config.php ~/home/lylla/wp
invalid output path: directory "/home/lylla/\xc3~/home/lylla" does not exist
lylla@vm1-docker:~$ ls
Desktop Documents Downloads get-docker.sh git Music Pictures Public snap Templates Videos
lylla@vm1-docker:~$ cd Desktop/
lylla@vm1-docker:~/Desktop$ pwd
/home/lylla/Desktop
lylla@vm1-docker:~/Desktop$ docker cp lylwordpress:/var/www/html/wp-config.php ~/home/lylla/Desktop
invalid output path: directory "/home/lylla/Desktop/\xc3~/home/lylla" does not exist
lylla@vm1-docker:~/Desktop$ docker cp lylwordpress:/var/www/html/wp-config.php ~/home/lylla/Desktop
invalid output path: directory "/home/lylla/home/lylla" does not exist
lylla@vm1-docker:~/Desktop$ docker cp lylwordpress:/var/www/html/wp-config.php /home/lylla/Desktop
Successfully copied 7.168kB to /home/lylla/Desktop
lylla@vm1-docker:~/Desktop$ ls
wp-config.php
lylla@vm1-docker:~/Desktop$
```