

# Challenge 3 - Dockers

Lab1:

- **Parte 1**

Go to Docker Hub y busque la imagen de Nginx. Descarga la version 1.22.1

Se crea el script "1-nginx.sh" y se le habilita el permiso de ejecución:

```
vagrant@tmmaryn:/vagrant/challenge3$ nano 1-nginx.sh
vagrant@tmmaryn:/vagrant/challenge3$ chmod +x 1-nginx.sh
```

Se ejecuta el script enviando como argumento el nombre de la imagen a descargar.

Se verifica la imagen instalada correctamente (docker ps)

```
vagrant@tmmaryn:/vagrant/challenge3$ sh 1-nginx.sh nginx:1.22.1-perl
----- Inicio del Script -----

***** Descarga de la imagen: nginx:1.22.1-perl *****
1.22.1-perl: Pulling from library/nginx
5731adb3a4ab: Pull complete
b6fc73d93e4e: Pull complete
bb18966267a2: Pull complete
1e8fe2ad7d20: Pull complete
d3c18c34b6f9: Pull complete
87477f1924db: Pull complete
Digest: sha256:f2d5df67e14a2cfff32107aea9cb1c6d0c2f293404241245aab38f5b24332253
Status: Downloaded newer image for nginx:1.22.1-perl
docker.io/library/nginx:1.22.1-perl

***** Se ejecuta la imagen: nginx:1.22.1-perl *****
5b747a3ad8918a900694f4c754fbcab2a3c45883f17bb3719f50c66f1d8b6914

***** Verificamos imagen y contenedor *****
REPOSITORY    TAG       IMAGE ID      CREATED       SIZE
httpd         alpine   2144628b74a4  12 days ago  66.1MB
nginx        1.22.1-perl  570bf8e7ca4b  13 days ago  180MB
mysql        8.0      2846b2a84d49  2 weeks ago  531MB
hello-world   latest   46331d942d63  11 months ago  9.14kB

CONTAINER ID   IMAGE          COMMAND                  CREATED        STATUS        PORTS                    NAMES
5b747a3ad891   nginx:1.22.1-perl "/docker-entrypoint...." Less than a second ago Up Less than a second 0.0.0.0:8080->80/tcp    nginx-web

----- Fin del script -----
```

- **Parte 2**

Paso por paso como ejecutar un par de contenedores de MySQL y de PHPMyAdmin que estén conectados entre si.

Se crea y ejecuta el script "2-mysql.sh", enviando como argumentos las imágenes de mysql y phpmyadmin, además del password a registrar en MySQL.

Se evidencia la ejecución correcta de ambos contenedores:

```
vagrant@tmmaryn:/vagrant/challenge3$ sh 2-mysql.sh mysql:8 phpmyadmin:latest 12345
----- Inicio del Script -----
```

```

***** Se ejecuta la imagen: mysql:8 *****
28582744dd544984cfb4cc88491d7c083524ee61206149853aac1d66f76a44d0

***** Se ejecuta el LOG de: mysql:8 *****
2023-02-23 01:49:38+00:00 [Note] [Entrypoint]: Entrypoint script for MySQL Server 8.0.32-1.el8 started.

***** Se ejecuta la imagen: phpmyadmin:latest *****
448366ab3a744ceebf79e35cf87a48d900a1782ac283b08cd147c52fd2d4697fe

***** Se revisan los contenedores *****
CONTAINER ID   IMAGE                COMMAND                  CREATED        STATUS                    PORTS                               NAMES
448366ab3a74   phpmyadmin:latest    "/docker-entrypoint...." 1 second ago   Up Less than a second    0.0.0.0:82->80/tcp                 my-admin
28582744dd54   mysql:8              "docker-entrypoint.s..." 1 second ago   Up Less than a second    0.0.0.0:3306->3306/tcp, 33060/tcp   db
693d58f0dbc9   nginx:1.22.1-perl    "/docker-entrypoint...." 32 minutes ago Up 32 minutes            0.0.0.0:8080->80/tcp                 nginx-web

***** Se ejecuta el contenedor: mysql:8 *****
bash-4.4# mysql -u root -p
Enter password:
Welcome to the MySQL monitor.  Commands end with ; or \g.
Your MySQL connection id is 8
Server version: 8.0.32 MySQL Community Server - GPL

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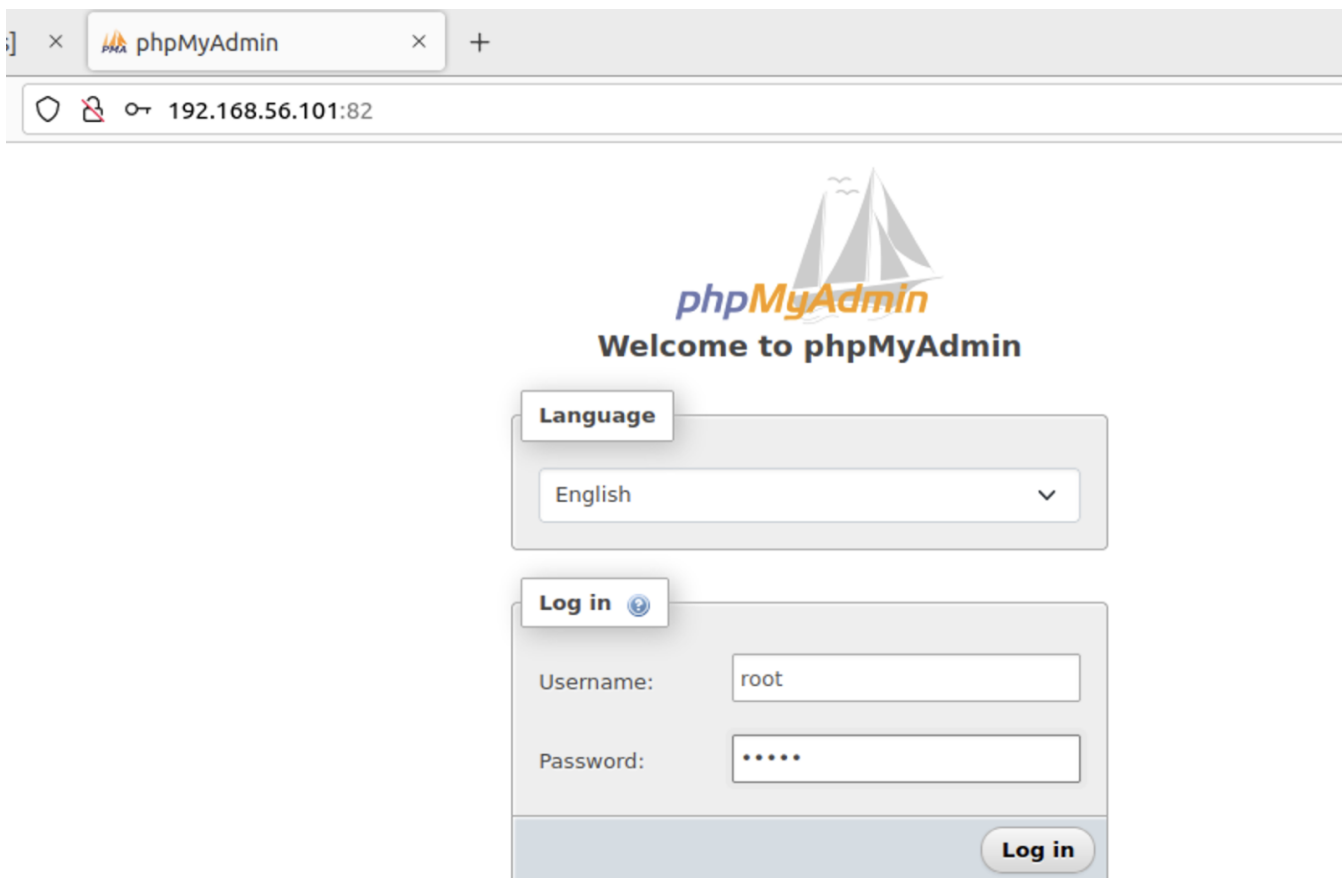
Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

mysql> exit
Bye
bash-4.4# exit
exit

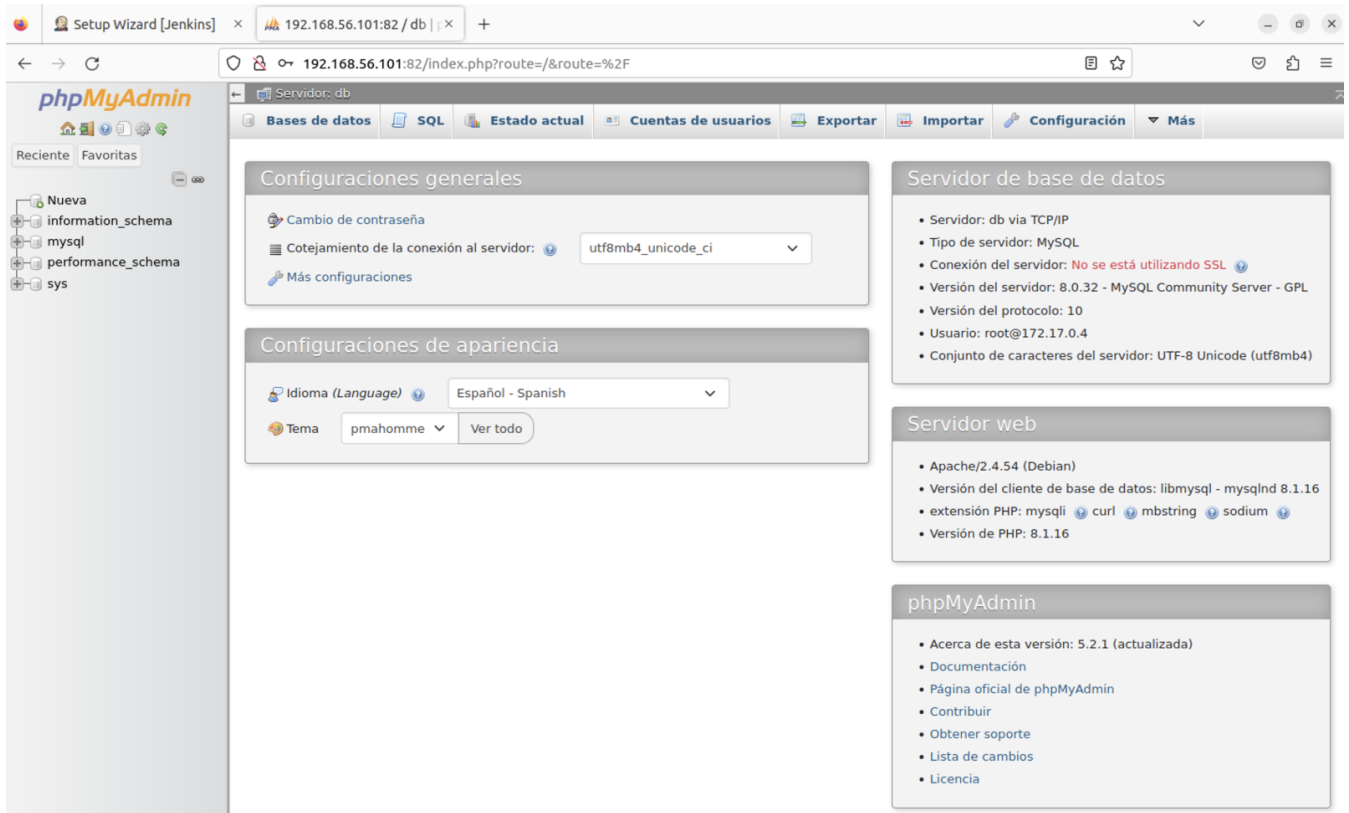
----- Fin del script -----
vagrant@tmmllyn:/vagrant/challenge3$

```

Ingresamos desde el browser a la IP y puerto donde instalamos phpMyAdmin:



The screenshot shows a web browser window with a single tab titled "phpMyAdmin". The address bar displays the URL "192.168.56.101:82". The main content area of the browser shows the phpMyAdmin login interface. At the top, there is a logo consisting of a stylized sailboat above the text "phpMyAdmin" and "Welcome to phpMyAdmin". Below the welcome message, there is a "Language" dropdown menu currently set to "English". Underneath that is a "Log in" section with a question mark icon. It contains two input fields: "Username:" with the value "root" and "Password:" with masked characters (dots). A "Log in" button is located at the bottom right of the login section.



Finalmente, paramos la ejecución y eliminamos los contenedores de prueba.

```
vagrant@tmmlarlyn:/vagrant/challenge3$ docker stop my-admin
my-admin
vagrant@tmmlarlyn:/vagrant/challenge3$ docker stop db
db
vagrant@tmmlarlyn:/vagrant/challenge3$ docker rm -f my-admin
my-admin
vagrant@tmmlarlyn:/vagrant/challenge3$ docker rm -f db
db
vagrant@tmmlarlyn:/vagrant/challenge3$ docker ps
```

| CONTAINER ID | IMAGE             | COMMAND                 | CREATED        | STATUS        | PORTS                | NAMES     |
|--------------|-------------------|-------------------------|----------------|---------------|----------------------|-----------|
| 693d58f0dbc9 | nginx:1.22.1-perl | "/docker-entrypoint..." | 43 minutes ago | Up 43 minutes | 0.0.0.0:8080->80/tcp | nginx-web |