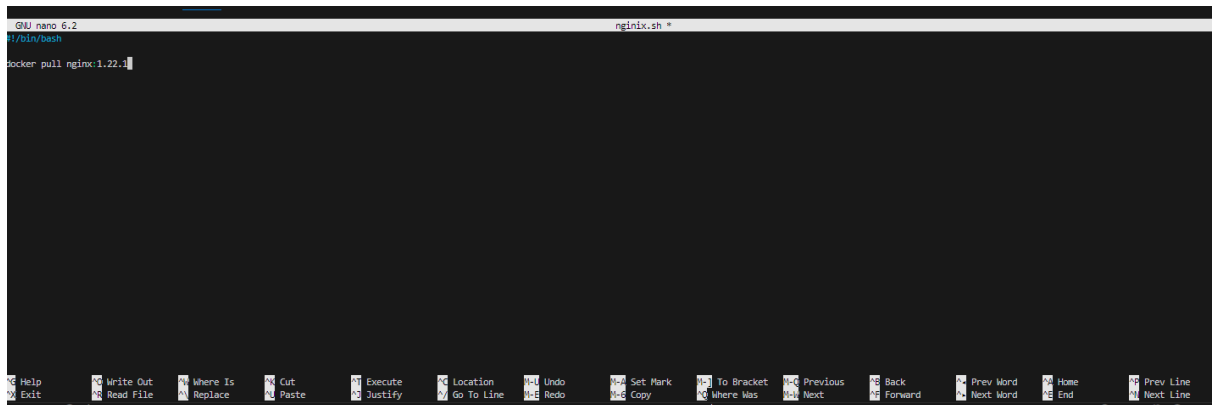


Pasos seguidos para realizar challenge 1

1. Se creó carpeta con el nombre **script** en la ruta del repositorio **THE-DEVOPS-JOURNEY-101**. Dentro se creo el archivo **1-nginx.sh**

```
irodriguez@DESKTOP-2CBTHKQ:/mnt/c/workspace/The-DevOps-Journey-101$ cd CLASE-04/Challenge/01
irodriguez@DESKTOP-2CBTHKQ:/mnt/c/workspace/The-DevOps-Journey-101/CLASE-04/Challenge/01$ mkdir script
irodriguez@DESKTOP-2CBTHKQ:/mnt/c/workspace/The-DevOps-Journey-101/CLASE-04/Challenge/01$ cd script/
irodriguez@DESKTOP-2CBTHKQ:/mnt/c/workspace/The-DevOps-Journey-101/CLASE-04/Challenge/01/script$ touch 1-nginx.sh
irodriguez@DESKTOP-2CBTHKQ:/mnt/c/workspace/The-DevOps-Journey-101/CLASE-04/Challenge/01/script$ nano nginx.sh
```

2. Se editó el archivo **1-nginx.sh** y se agregó cabecera para ejecución **#!/bin/bash** y el comando para descargar la imagen de la versión **1.22.1** de **nginx**. Se guardaron los cambios



```
GNU nano 6.2 nginx.sh *
#!/bin/bash

docker pull nginx:1.22.1
```

3. Se ejecutó script con el comando **bash ./1-nginx.sh** y se validó que la misma estuviese instalada.

```
irodriguez@DESKTOP-2CBTHKQ:/mnt/c/workspace/The-DevOps-Journey-101/CLASE-04/Challenge/01/script$ nano 1-nginx.sh
irodriguez@DESKTOP-2CBTHKQ:/mnt/c/workspace/The-DevOps-Journey-101/CLASE-04/Challenge/01/script$ cat 1-nginx.sh
#!/bin/bash

docker pull nginx:1.22.1

irodriguez@DESKTOP-2CBTHKQ:/mnt/c/workspace/The-DevOps-Journey-101/CLASE-04/Challenge/01/script$ bash ./1-nginx.sh
1.22.1: Pulling from library/nginx
f1f26f570256: Pull complete
fd03b214f774: Pull complete
ef2fc869b944: Pull complete
ac713a9ef2cc: Pull complete
fd071922d543: Pull complete
2a9f38700bb5: Pull complete
Digest: sha256:fc5f5fb7574755c306aaf88456ebfbeb0b006420a184d52b923d2f0197108f6b7
Status: Downloaded newer image for nginx:1.22.1
docker.io/library/nginx:1.22.1
irodriguez@DESKTOP-2CBTHKQ:/mnt/c/workspace/The-DevOps-Journey-101/CLASE-04/Challenge/01/script$ docker image ls
REPOSITORY    TAG       IMAGE ID       CREATED        SIZE
postgres      latest    f14b0d96cff9   43 hours ago   379MB
nginx         1.22.1    0f8498f13f3a   6 weeks ago    142MB
irodriguez@DESKTOP-2CBTHKQ:/mnt/c/workspace/The-DevOps-Journey-101/CLASE-04/Challenge/01/script$
```

4. Se ejecutó comando para iniciar contenedor de MySQL **docker run --name=db -p 3306:3306 -e MYSQL_ROOT_PASSWORD=secret-pw -d mysql:8**

```
irodriguez@DESKTOP-2CBTHKQ:/mnt/c/workspace/The-DevOps-Journey-101/CLASE-04/Challenge/01/script$ docker run --name=db -p 3306:3306 -e MYSQL_ROOT_PASSWORD=secret-pw -d mysql:8
Unable to find image 'mysql:8' locally
8: Pulling from library/mysql
328ba678bf27: Pull complete
f3f5ff08d473: Pull complete
dd7854d6d0c7: Pull complete
70b5d4e8750e: Pull complete
cdc4a7b43bdd: Pull complete
a0608f8959e0: Pull complete
5823e721608f: Pull complete
a564ada930a9: Pull complete
539565d00e89: Pull complete
a11a06843fd5: Pull complete
92fd64aa041d: Pull complete
Digest: sha256:a43f6e7e7f3a5e5b90f857fbed4e3103ece771b19f0f75880f767cf66bb577
Status: Downloaded newer image for mysql:8
490f9cdd5a59b5f7daa5be17f023aac5e74b047ee6a2452814db2b38ee86868
```

5. Se revisaron los logs del contenedor creado con el comando anterior, ejecutando el comando **docker logs db**

```
irodriguez@DESKTOP-2CBTHKQ:/mnt/c/workspace/The-DevOps-Journey-101/CLASE-04/Challenge/01/script$ docker logs db
2023-05-13 17:34:11+00:00 [Note] [Entrypoint]: Entrypoint script for MySQL Server 8.0.33-1.el8 started.
2023-05-13 17:34:11+00:00 [Note] [Entrypoint]: Switching to dedicated user 'mysql'
2023-05-13 17:34:11+00:00 [Note] [Entrypoint]: Entrypoint script for MySQL Server 8.0.33-1.el8 started.
2023-05-13 17:34:11+00:00 [Note] [Entrypoint]: Initializing database files
2023-05-13T17:34:11.63292Z 0 [Warning] [MY-011068] [Server] The syntax '--skip-host-cache' is deprecated and will be removed in a future release. Please use SET GLOBAL host_cache_size=0 instead.
2023-05-13T17:34:11.63295Z 0 [System] [MY-013169] [Server] /usr/sbin/mysqld (mysqld 8.0.33) initializing of server in progress as process 80
2023-05-13T17:34:11.655257Z 1 [System] [MY-013576] [InnoDB] InnoDB initialization has started.
2023-05-13T17:34:12.228185Z 1 [System] [MY-013577] [InnoDB] InnoDB initialization has ended.
2023-05-13T17:34:13.825399Z 6 [Warning] [MY-010453] [Server] root@localhost is created with an empty password ! Please consider switching off the --initialize-insecure option.
2023-05-13 17:34:17+00:00 [Note] [Entrypoint]: Database files initialized
2023-05-13 17:34:17+00:00 [Note] [Entrypoint]: Starting temporary server
2023-05-13T17:34:17.862603Z 0 [Warning] [MY-011068] [Server] The syntax '--skip-host-cache' is deprecated and will be removed in a future release. Please use SET GLOBAL host_cache_size=0 instead.
2023-05-13T17:34:17.864891Z 0 [System] [MY-010116] [Server] /usr/sbin/mysqld (mysqld 8.0.33) starting as process 124
2023-05-13T17:34:17.888682Z 1 [System] [MY-013576] [InnoDB] InnoDB initialization has started.
2023-05-13T17:34:18.045883Z 1 [System] [MY-013577] [InnoDB] InnoDB initialization has ended.
2023-05-13T17:34:18.450596Z 0 [Warning] [MY-010068] [Server] CA certificate ca.pem is self signed.
2023-05-13T17:34:18.450651Z 0 [System] [MY-013602] [Server] Channel mysql_main configured to support TLS. Encrypted connections are now supported for this channel.
2023-05-13T17:34:18.452236Z 0 [Warning] [MY-011810] [Server] Insecure configuration for --pid-file: Location '/var/run/mysqld' in the path is accessible to all OS users. Consider choosing a different directory.
2023-05-13T17:34:18.463314Z 0 [System] [MY-011323] [Server] X Plugin ready for connections. Socket: /var/run/mysqld/mysqld.sock
2023-05-13T17:34:18.463304Z 0 [System] [MY-010931] [Server] /usr/sbin/mysqld: ready for connections. Version: '8.0.33' socket: '/var/run/mysqld/mysqld.sock' port: 0 MySQL Community Server - GPL.
2023-05-13 17:34:18+00:00 [Note] [Entrypoint]: Temporary server started.
'/var/lib/mysql/mysql.sock' -> '/var/run/mysqld/mysqld.sock'
Warning: Unable to load '/usr/share/zoneinfo/iso3166.tab' as time zone. Skipping it.
Warning: Unable to load '/usr/share/zoneinfo/leap-seconds.list' as time zone. Skipping it.
Warning: Unable to load '/usr/share/zoneinfo/leapseconds' as time zone. Skipping it.
Warning: Unable to load '/usr/share/zoneinfo/tzdata.zi' as time zone. Skipping it.
Warning: Unable to load '/usr/share/zoneinfo/zone.tab' as time zone. Skipping it.
Warning: Unable to load '/usr/share/zoneinfo/zone1970.tab' as time zone. Skipping it.
2023-05-13 17:34:21+00:00 [Note] [Entrypoint]: Stopping temporary server
2023-05-13T17:34:21.156658Z 10 [System] [MY-013172] [Server] Received SHUTDOWN from user root. Shutting down mysqld (Version: 8.0.33).
2023-05-13T17:34:23.057748Z 0 [System] [MY-010910] [Server] /usr/sbin/mysqld: Shutdown complete (mysqld 8.0.33) MySQL Community Server - GPL.
2023-05-13 17:34:23+00:00 [Note] [Entrypoint]: Temporary server stopped
2023-05-13 17:34:23+00:00 [Note] [Entrypoint]: MySQL init process done. Ready for start up.
2023-05-13T17:34:23.369697Z 0 [Warning] [MY-011068] [Server] The syntax '--skip-host-cache' is deprecated and will be removed in a future release. Please use SET GLOBAL host_cache_size=0 instead.
2023-05-13T17:34:23.370355Z 0 [System] [MY-010116] [Server] /usr/sbin/mysqld (mysqld 8.0.33) starting as process 1
2023-05-13T17:34:23.378436Z 1 [System] [MY-013576] [InnoDB] InnoDB initialization has started.
2023-05-13T17:34:23.762328Z 1 [System] [MY-013577] [InnoDB] InnoDB initialization has ended.
2023-05-13T17:34:24.021057Z 0 [Warning] [MY-010068] [Server] CA certificate ca.pem is self signed.
2023-05-13T17:34:24.022099Z 0 [System] [MY-013602] [Server] Channel mysql_main configured to support TLS. Encrypted connections are now supported for this channel.
2023-05-13T17:34:24.022659Z 0 [Warning] [MY-011810] [Server] Insecure configuration for --pid-file: Location '/var/run/mysqld' in the path is accessible to all OS users. Consider choosing a different directory.
2023-05-13T17:34:24.035629Z 0 [System] [MY-011323] [Server] X Plugin ready for connections. Bind-address: '::' port: 33060, socket: /var/run/mysqld/mysqld.sock
2023-05-13T17:34:24.035703Z 0 [System] [MY-010931] [Server] /usr/sbin/mysqld: ready for connections. Version: '8.0.33' socket: '/var/run/mysqld/mysqld.sock' port: 3306 MySQL Community Server - GPL.
irodriguez@DESKTOP-2CBTHKQ:/mnt/c/workspace/The-DevOps-Journey-101/CLASE-04/Challenge/01/script$
```

6. Se ejecutó al contenedor de manera interactiva con el comando **docker exec -it db bash** y luego se conectó a **MYSQL** ejecutando el comando **mysql -u root -p** e ingresando el password definido en el comando usado para crear el contenedor **MySQL (secret-pw)**

```
irodriguez@DESKTOP-2CBTHKQ:/mnt/c/workspace/The-DevOps-Journey-101/CLASE-04/Challenge/01/script$ docker exec -it db bash
bash-4.4# mysql -u root -p
Enter password:
Welcome to the MySQL monitor. Commands end with ; or \g.
Your MySQL connection id is 10
Server version: 8.0.33 MySQL Community Server - GPL

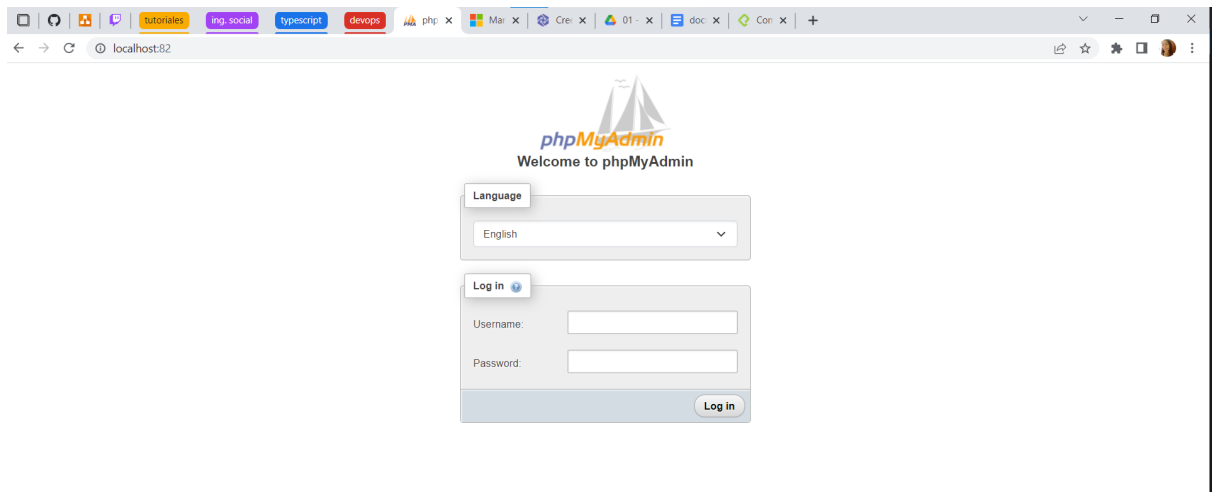
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owners.

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

mysql>
```

7. Se inició el contenedor **PHPMYAdmin**, ejecutando el comando **docker run --name=my-admin -p 82:80 --link db:db -d phpmyadmin** y se validó que estuviese corriendo en la máquina host.



9. Se inició sesión con las credenciales usuario: **root** y password: **secret-pw**.

10. Se detuvieron los contenedores.

```
irodriguez@DESKTOP-2CBTHKQ:/mnt/c/workspace/The-DevOps-Journey-101/CLASE-04/Challenge/01/script$ docker exec -it db bash
bash-4.4# mysql -u root -p
Enter password:
Welcome to the MySQL monitor.  Commands end with ; or \g.
Your MySQL connection id is 18
Server version: 8.0.33 MySQL Community Server - GPL

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owners.

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

mysql> read escape sequence
irodriguez@DESKTOP-2CBTHKQ:/mnt/c/workspace/The-DevOps-Journey-101/CLASE-04/Challenge/01/script$ docker ps -a
CONTAINER ID   IMAGE          COMMAND                  CREATED        STATUS        PORTS                               NAMES
f56e7a071158   phpmyadmin    "/docker-entrypoint.s..." 26 minutes ago Up 26 minutes 0.0.0.0:82->80/tcp                 my-admin
490f9cdd5a59   mysql:8       "docker-entrypoint.s..." About an hour ago Up About an hour 0.0.0.0:3306->3306/tcp, 33060/tcp  db
3df643757c96   postgres     "docker-entrypoint.s..." 4 hours ago    Exited (255) 2 hours ago 5432/tcp                          some-postgres
irodriguez@DESKTOP-2CBTHKQ:/mnt/c/workspace/The-DevOps-Journey-101/CLASE-04/Challenge/01/script$ docker stop 490
490
irodriguez@DESKTOP-2CBTHKQ:/mnt/c/workspace/The-DevOps-Journey-101/CLASE-04/Challenge/01/script$ docker stop f56
f56
irodriguez@DESKTOP-2CBTHKQ:/mnt/c/workspace/The-DevOps-Journey-101/CLASE-04/Challenge/01/script$ docker ps -a
CONTAINER ID   IMAGE          COMMAND                  CREATED        STATUS        PORTS                               NAMES
f56e7a071158   phpmyadmin    "/docker-entrypoint.s..." 27 minutes ago Exited (0) 9 seconds ago                               my-admin
490f9cdd5a59   mysql:8       "docker-entrypoint.s..." About an hour ago Exited (0) 28 seconds ago                               db
3df643757c96   postgres     "docker-entrypoint.s..." 4 hours ago    Exited (255) 2 hours ago 5432/tcp                          some-postgres
irodriguez@DESKTOP-2CBTHKQ:/mnt/c/workspace/The-DevOps-Journey-101/CLASE-04/Challenge/01/script$
```

11. Se removieron los contenedores usando el shortcut del id (tres primeros dígitos).

```
irodriguez@DESKTOP-2CBTHKQ:/mnt/c/workspace/The-DevOps-Journey-101/CLASE-04/Challenge/01/script$ docker ps -a
CONTAINER ID   IMAGE          COMMAND                  CREATED        STATUS        PORTS                               NAMES
88452be6fc5f   mysql:8       "docker-entrypoint.s..." 9 minutes ago  Up 9 minutes  0.0.0.0:3306->3306/tcp, 33060/tcp  compassionate_pascal
f56e7a071158   phpmyadmin    "/docker-entrypoint.s..." 43 minutes ago Exited (0) 16 minutes ago                               my-admin
490f9cdd5a59   mysql:8       "docker-entrypoint.s..." 2 hours ago    Exited (128) 16 minutes ago                               db
3df643757c96   postgres     "docker-entrypoint.s..." 4 hours ago    Exited (255) 2 hours ago 5432/tcp                          some-postgres
irodriguez@DESKTOP-2CBTHKQ:/mnt/c/workspace/The-DevOps-Journey-101/CLASE-04/Challenge/01/script$ docker rm 490
490
irodriguez@DESKTOP-2CBTHKQ:/mnt/c/workspace/The-DevOps-Journey-101/CLASE-04/Challenge/01/script$ docker rm f56
f56
irodriguez@DESKTOP-2CBTHKQ:/mnt/c/workspace/The-DevOps-Journey-101/CLASE-04/Challenge/01/script$ docker ps -a
CONTAINER ID   IMAGE          COMMAND                  CREATED        STATUS        PORTS                               NAMES
88452be6fc5f   mysql:8       "docker-entrypoint.s..." 14 minutes ago Up 14 minutes  0.0.0.0:3306->3306/tcp, 33060/tcp  compassionate_pascal
3df643757c96   postgres     "docker-entrypoint.s..." 4 hours ago    Exited (255) 2 hours ago 5432/tcp                          some-postgres
irodriguez@DESKTOP-2CBTHKQ:/mnt/c/workspace/The-DevOps-Journey-101/CLASE-04/Challenge/01/script$
```