### Урок 3. Введение в Docker

Задание:  
1) запустить контейнер с БД, отличной от mariaDB, используя инструкции на сайте: <https://hub.docker.com/>2) добавить в контейнер hostname такой же, как hostname системы через переменную  
3) заполнить БД данными через консоль  
4) запустить phpmyadmin (в контейнере) и через веб проверить, что все введенные данные доступны

**ubuntu@111:~$ sudo docker pull postgres**

Using default tag: latest

latest: Pulling from library/postgres

f03b40093957: Already exists

9d674c93414d: Pull complete

de781e8e259a: Pull complete

5ea6efaf51f6: Pull complete

b078d5f4ac82: Pull complete

97f84fb2a918: Pull complete

5a6bf2f43fb8: Pull complete

f1a40e88fea4: Pull complete

4be673794a1a: Pull complete

9d72f84fb861: Pull complete

5d52569da92e: Pull complete

5d48fbe991ff: Pull complete

4ae692d11ad3: Pull complete

Digest: sha256:31c9342603866f29206a06b77c8fed48b3c3f70d710a4be4e8216b134f92d0df

Status: Downloaded newer image for postgres:latest

docker.io/library/postgres:latest

**buntu@111:~$ sudo docker run --name mynewdatabase -e POSTGRES\_PASSWORD=1111 -d postgres**

803ed522d891177f00cef5075c2f66f8f094502bbd35031b7a9d1fd60a6b4d1c

**ubuntu@111:~$ sudo docker ps -a**

CONTAINER ID IMAGE COMMAND CREATED STATUS PORTS NAMES

803ed522d891 postgres "docker-entrypoint.s…" 48 seconds ago Up 43 seconds 5432/tcp mynewdatabase

75332d931706 ubuntu/mysql:8.0-22.04\_beta "docker-entrypoint.s…" 7 days ago Exited (255) 52 minutes ago 33060/tcp, 0.0.0.0:30306->3306/tcp, :::30306->3306/tcp mysql-container

4f13831dc0ca sqlpad/sqlpad "/docker-entrypoint" 8 days ago Created wizardly\_cray

4ffece3d5c1a sqlpad/sqlpad "/docker-entrypoint" 8 days ago Exited (255) 52 minutes ago 0.0.0.0:3000->3000/tcp, :::3000->3000/tcp magical\_roentgen

86a6652811b6 crate "/docker-entrypoint.…" 8 days ago Exited (130) 8 days ago fervent\_lederberg

**ubuntu@111:~$ sudo docker exec -it mynewdatabase bash**

**root@803ed522d891:/# psql -U postgres**

psql (15.3 (Debian 15.3-1.pgdg110+1))

Type "help" for help.

**postgres=# CREATE DATABASE mydb;**

CREATE DATABASE

**postgres=# USE mydb;**

ERROR: syntax error at or near "USE"

LINE 1: USE mydb;

^

**postgres=# CREATE TABLE cats (id INT, name VARCHAR(50));**

**INSERT INTO cats (id, name) VALUES (1, 'Vasya'), (2, 'Murka'), (3, 'Richi');**

ERROR: relation "cats" already exists

INSERT 0 3

**postgres=# SELECT \* FROM cats;**

id | name

----+-------

1 | Vasya

2 | Murka

3 | Richi

(3 rows)

**postgres=# \q**

**root@803ed522d891:/# exit**

exit

***Загрузка образа phpMyAdmin***

**ubuntu@111:~$ sudo docker pull phpmyadmin/phpmyadmin**

[sudo] password for ubuntu:

Using default tag: latest

latest: Pulling from phpmyadmin/phpmyadmin

f1f26f570256: Pull complete

ee0a4e40ccac: Pull complete

5ca9fb408faa: Pull complete

5baa808a48ff: Pull complete

6e8d74e4d8ee: Pull complete

fac8e70fcf67: Pull complete

b3b7906fb177: Pull complete

cb4935bbeb83: Pull complete

c9e00ef337e3: Pull complete

cfe495c8d695: Pull complete

dcc3fd107f0c: Pull complete

fe3c587d1f07: Pull complete

677f27d94442: Pull complete

4d778a8cb653: Pull complete

5f0f7b557ecd: Pull complete

6ad259d60f7c: Pull complete

41acd705cbc4: Pull complete

912204d5a7e6: Pull complete

Digest: sha256:ed87921184b59f7d8fc85c6a5f041c22758a4d4419c0ee3bac38eb7e133eaed3

Status: Downloaded newer image for phpmyadmin/phpmyadmin:latest

docker.io/phpmyadmin/phpmyadmin:latest

**ubuntu@111:~$ sudo docker run --name phpmyadmin --link mynewdatabase:db -p 8080:80 -d phpmyadmin/phpmyadmin**

180a693a48e1431bf4c0d8612434e4f747a8f618358593be22121eda8a502835

