

1. Запустить контейнер с БД mariaDB, используя инструкции на сайте [hub.docker.com](https://hub.docker.com).  
Слинковать папку с базой данных с контейнера с mariaDB в папку на хосте (как на семинаре).  
Заполнить БД данными или добавить запись и проверить, что файлы базы данных появились на хостовой машине.

Команды:

```
mkdir mdb
```

```
docker run --name mariadbGB -v ./mdb:/var/lib/mysql -e MYSQL_ROOT_PASSWORD=GB -p 3306:3306 -d mariadb:10.10.2
```

```
docker ps
```

```
docker exec -it ea mysql -u root -p
```

```
show databases;
```

```
create database GB;
```

```
ls -l
```

Код:

```
xadmin@Ubuntu:~/GB/docker/3$ sudo docker run --name test-mariadb -e MARIADB_ROOT_PASSWORD=test123 -v ./mydb:/var/lib/mysql -d mariadb:10.10.2
```

Unable to find image 'mariadb:10.10.2' locally

10.10.2: Pulling from library/mariadb

10ac4908093d: Pull complete

44779101e748: Pull complete

a721db3e3f3d: Pull complete

1850a929b84a: Pull complete

397a918c7da3: Pull complete

806be17e856d: Pull complete

634de6c90876: Pull complete

cd00854cfb1a: Pull complete

Digest: sha256:bfc25a68e113de43d0d112f5a7126df8e278579c3224e3923359e1c1d8d5ce6e

Status: Downloaded newer image for mariadb:10.10.2

docker: Error response from daemon: create ./mydb: "./mydb" includes invalid characters for a local volume name, only "[a-zA-Z0-9][a-zA-Z0-9\_-.]" are allowed. If you intended to pass a host directory, use absolute path.

See 'docker run --help'.

```
xadmin@Ubuntu:~/GB/docker/3/mdb$ sudo docker run --name test-mariadb -e
MARIADB_ROOT_PASSWORD=test123 -v /home/xadmin/GB/docker/3/mdb:/var/lib/mysql -d
mariadb:10.10.2
```

```
fb3528ff2ff70477d2aa1c49e5d0f1cc32d5a4f94f6acbc9f6b3ab846a55d535
```

```
xadmin@Ubuntu:~/GB/docker/3/mdb$ sudo docker ps
```

CONTAINER ID	IMAGE	COMMAND	CREATED	STATUS	PORTS	NAMES
fb3528ff2ff7	mariadb:10.10.2	"docker-entrypoint.s..."	24 seconds ago	Up 24 seconds	3306/tcp	test-mariadb
cf50d13e5f08	ubuntu:22.10	"bash"	22 minutes ago	Up 22 minutes		objective_bartik

```
xadmin@Ubuntu:~/GB/docker/3/mdb$ sudo docker exec -it test-mariadb bash
```

```
root@fb3528ff2ff7:/# ls -l
```

```
total 56
```

```
lrwxrwxrwx 1 root root 7 Jan 26 02:03 bin -> usr/bin
```

```
drwxr-xr-x 2 root root 4096 Apr 18 2022 boot
```

```
drwxr-xr-x 5 root root 340 Jul 25 10:50 dev
```

```
drwxr-xr-x 2 root root 4096 Jan 31 18:42 docker-entrypoint-initdb.d
```

```
drwxr-xr-x 1 root root 4096 Jul 25 10:50 etc
```

```
drwxr-xr-x 2 root root 4096 Apr 18 2022 home
```

```
lrwxrwxrwx 1 root root 7 Jan 26 02:03 lib -> usr/lib
```

```
lrwxrwxrwx 1 root root 9 Jan 26 02:03 lib32 -> usr/lib32
```

```
lrwxrwxrwx 1 root root 9 Jan 26 02:03 lib64 -> usr/lib64
```

```
lrwxrwxrwx 1 root root 10 Jan 26 02:03 libx32 -> usr/libx32
```

```
drwxr-xr-x 2 root root 4096 Jan 26 02:03 media
```

```
drwxr-xr-x 2 root root 4096 Jan 26 02:03 mnt
```

```
drwxr-xr-x 2 root root 4096 Jan 26 02:03 opt
```

```
dr-xr-xr-x 311 root root 0 Jul 25 10:50 proc
```

drwx----- 1 root root 4096 Jan 31 18:42 root

drwxr-xr-x 1 root root 4096 Jan 31 18:43 run

lrwxrwxrwx 1 root root 8 Jan 26 02:03 sbin -> usr/sbin

drwxr-xr-x 2 root root 4096 Jan 26 02:03 srv

dr-xr-xr-x 13 root root 0 Jul 25 10:50 sys

drwxrwxrwt 1 root root 4096 Jul 25 10:50 tmp

drwxr-xr-x 1 root root 4096 Jan 26 02:03 usr

drwxr-xr-x 1 root root 4096 Jan 26 02:06 var

root@fb3528ff2ff7:/# mysql -u root -p

Enter password:

Welcome to the MariaDB monitor. Commands end with ; or \g.

Your MariaDB connection id is 3

Server version: 10.10.2-MariaDB-1:10.10.2+maria~ubu2204 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 statement.

MariaDB [(none)]> show databeses

-> show databeses;

ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MariaDB server version for the right syntax to use near 'databases'

show databeses' at line 2

MariaDB [(none)]> show databases;

+-----+

| Database |

+-----+

```
| information_schema |  
  
| mysql      |  
  
| performance_schema |  
  
| sys        |
```

```
+-----+
```

4 rows in set (0.000 sec)

```
MariaDB [(none)]> CREATE DATABASE GB;  
Query OK, 1 row affected (0.000 sec)  
  
MariaDB [(none)]> show databases;  
+-----+  
| Database |  
+-----+  
| GB       |  
| information_schema |  
| mysql    |  
| performance_schema |  
| sys      |  
+-----+  
5 rows in set (0.000 sec)  
  
MariaDB [(none)]> Ctrl-C -- exit!  
Aborted  
root@fb3528ff2ff7:/#
```

xadmin@Ubuntu:~/GB/docker/3/mdb\$ ls -l

итого 139376

-rw-rw---- 1 vboxadd vboxsf 16842752 июл 25 13:50 aria\_log.00000001

-rw-rw---- 1 vboxadd vboxsf 52 июл 25 13:50 aria\_log\_control

-rw-rw---- 1 vboxadd vboxsf 9 июл 25 13:50 ddl\_recovery.log

drwx----- 2 vboxadd vboxsf 4096 июл 25 13:59 GB

-rw-rw---- 1 vboxadd vboxsf 868 июл 25 13:50 ib\_buffer\_pool

-rw-rw---- 1 vboxadd vboxsf 12582912 июл 25 13:50 ibdata1

```
-rw-rw---- 1 vboxadd vboxsf 100663296 июл 25 13:52 ib_logfile0
-rw-rw---- 1 vboxadd vboxsf 12582912 июл 25 13:50 ibtmp1
-rw-rw---- 1 vboxadd vboxsf 0 июл 25 13:50 multi-master.info
drwx----- 2 vboxadd vboxsf 4096 июл 25 13:50 mysql
-rw-r--r-- 1 vboxadd vboxsf 15 июл 25 13:50 mysql_upgrade_info
drwx----- 2 vboxadd vboxsf 4096 июл 25 13:50 performance_schema
drwx----- 2 vboxadd vboxsf 12288 июл 25 13:50 sys
```

```
xadmin@Ubuntu:~/GB/docker/3/mdb$ ls -l
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-rw-rw---- 1 vboxadd vboxsf 16842752 июл 25 13:50 aria_log.00000001
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-rw-r--r-- 1 vboxadd vboxsf 15 июл 25 13:50 mysql_upgrade_info
drwx----- 2 vboxadd vboxsf 4096 июл 25 13:50 performance_schema
drwx----- 2 vboxadd vboxsf 12288 июл 25 13:50 sys
xadmin@Ubuntu:~/GB/docker/3/mdb$
```

2. Запустить phpmysadmin (в контейнере) и через веб проверить, что все введенные данные доступны. <http://localhost:8081/>

Команды:

```
docker run --name phpmysadmin -d --link mariadbGB:db -p 8080:80 phpmysadmin/phpmysadmin
```

```
docker ps
```

Код:

```
xadmin@Ubuntu:~/GB/docker/3$ sudo docker run --name my-phpmysadmin-new-1 --link test-mariadb:db -p 8081:80 phpmysadmin/phpmysadmin
```

Unable to find image 'phpmysadmin/phpmysadmin:latest' locally

latest: Pulling from phpmysadmin/phpmysadmin

faef57eae888: Pull complete

989a1d6c052e: Pull complete

0705c9c2f22d: Pull complete

621478e043ce: Pull complete

98246dcca987: Pull complete

bfed8c155cb6: Pull complete

7a7c2e908867: Pull complete

d176994b625c: Pull complete

2d8ace6a2716: Pull complete

c70df516383c: Pull complete

15e1b44fe4c7: Pull complete

65e50d44e95a: Pull complete

77f68910bc0a: Pull complete

605dd3a6e332: Pull complete

99ce27188f07: Pull complete

74d64e32c5d5: Pull complete

ef5fc9928b9f: Pull complete

163f3256e112: Pull complete

Digest: sha256:67ba2550fd004399ab0b95b64021a88ea544011e566a9a1995180a3dec6410d

Status: Downloaded newer image for phpmyadmin/phpmyadmin:latest

AH00558: apache2: Could not reliably determine the server's fully qualified domain name, using 172.17.0.4. Set the 'ServerName' directive globally to suppress this message

AH00558: apache2: Could not reliably determine the server's fully qualified domain name, using 172.17.0.4. Set the 'ServerName' directive globally to suppress this message

[Tue Jul 25 12:10:43.244367 2023] [mpm\_prefork:notice] [pid 1] AH00163: Apache/2.4.57 (Debian) PHP/8.2.8 configured -- resuming normal operations

[Tue Jul 25 12:10:43.244406 2023] [core:notice] [pid 1] AH00094: Command line: 'apache2 -D FOREGROUND'

xadmin@Ubuntu:~/GB/docker/3\$ sudo docker ps


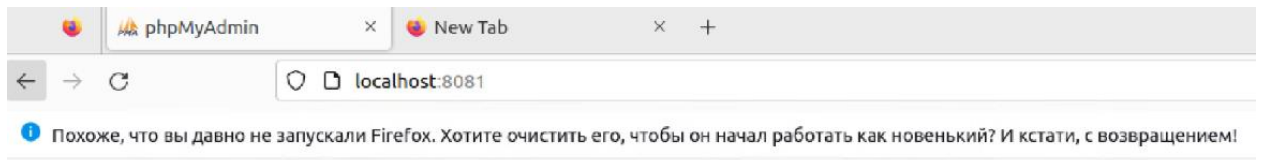
[sudo] пароль для xadmin:

CONTAINER ID	IMAGE	COMMAND	CREATED	STATUS	PORTS
NAMES					

7515d3b86ddb phpmyadmin/phpmyadmin "/docker-entrypoint...." 45 seconds ago Up 43 seconds  
0.0.0.0:8081->80/tcp, :::8081->80/tcp my-phpmyadmin-new-1

fb3528ff2ff7 mariadb:10.10.2 "docker-entrypoint.s..." About an hour ago Up About an hour  
3306/tcp test-mariadb

cf50d13e5f08 ubuntu:22.10 "bash" 2 hours ago Up 2 hours  
objective\_bartik



**Добро пожаловать в phpMyAdmin**

**Язык (Language)**

Русский - Russian

**Авторизация**

Пользователь:

Пароль:

**Авторизация**