Урок 4. Dockerfile и слои

*5 (не обязательно). Сбилдить образ любой базы данных на основе alpine или debian/ubuntu. Запустить контейнер и проверить, что БД запустилась (допустим зайти через командную строку и вывести список баз данных).

DockerFile:

```
FROM ubuntu:22.10
RUN apt-get update
RUN apt-get install -y mysql-server
EXPOSE 3306
CMD mysqld
```

```
docker build -t mariadb-hw-4 .
```

```
Error response from daemon: No such image: c9d4de60f385:latest
Error response from daemon: No such image: c6580720ab18:latest
HW-4 [issue-258-Dockerfile_и_слои_HW-4●●] docker images
REPOSITORY     TAG        IMAGE ID      CREATED     SIZE
HW-4 [issue-258-Dockerfile_и_слои_HW-4●●] docker build -t mariadb-hw-4 .
DEPRECATED: The legacy builder is deprecated and will be removed in a future release.
           Install the buildx component to build images with BuildKit:
           https://docs.docker.com/go/buildx/

Sending build context to Docker daemon  16.38kB
Step 1/5 : FROM ubuntu:22.10
22.10: Pulling from library/ubuntu
317e06b63fc0: Pull complete
Digest: sha256:1fa7586c0f10cc7ce7ca379ae48bf06776325b9f8e97963ce40803a8bcc07dca
Status: Downloaded newer image for ubuntu:22.10
 ---> e39f297e9dda
Step 2/5 : RUN apt-get update
 ---> Running in 036f2513cb83
Get:1 http://archive.ubuntu.com/ubuntu kinetic InRelease [267 kB]
Get:2 http://security.ubuntu.com/ubuntu kinetic-security InRelease [109 kB]
Get:3 http://archive.ubuntu.com/ubuntu kinetic-updates InRelease [118 kB]
Get:4 http://security.ubuntu.com/ubuntu kinetic-security/multiverse amd64 Packages [6731 B]
Get:5 http://archive.ubuntu.com/ubuntu kinetic-backports InRelease [99.9 kB]
Get:6 http://security.ubuntu.com/ubuntu kinetic-security/restricted amd64 Packages [307 kB]
Get:7 http://archive.ubuntu.com/ubuntu kinetic/restricted amd64 Packages [151 kB]
Get:8 http://archive.ubuntu.com/ubuntu kinetic/main amd64 Packages [1778 kB]
Get:9 http://security.ubuntu.com/ubuntu kinetic-security/universe amd64 Packages [247 kB]
Get:10 http://security.ubuntu.com/ubuntu kinetic-security/main amd64 Packages [352 kB]
Get:11 http://archive.ubuntu.com/ubuntu kinetic/universe amd64 Packages [17.9 MB]
Get:12 http://archive.ubuntu.com/ubuntu kinetic/multiverse amd64 Packages [289 kB]
Get:13 http://archive.ubuntu.com/ubuntu kinetic-updates/restricted amd64 Packages [315 kB]
Get:14 http://archive.ubuntu.com/ubuntu kinetic-updates/main amd64 Packages [499 kB]
Get:15 http://archive.ubuntu.com/ubuntu kinetic-updates/multiverse amd64 Packages [17.2 kB]
Get:16 http://archive.ubuntu.com/ubuntu kinetic-updates/universe amd64 Packages [393 kB]
```

```
docker run --name mariadb-test -v mariadb:/var/lib/mysql -p 3306:3306 -d
mariadb-hw-4
docker ps
docker exec -it mariadb-test mysql -uroot -p
```

```
HW-4 [issue-258-Dockerfile_и_слои_HW-4●●] docker run --name mariadb-test -v mariadb:/var/lib/mysql -p 3306:3306 -d mariadb-hw-4
d827b543d12bba3bf9ed3a1277f3d6158cced2a743e220834c15c0e7e0ede93d
HW-4 [issue-258-Dockerfile_и_слои_HW-4●●] docker ps
CONTAINER ID   IMAGE          COMMAND              CREATED        STATUS         PORTS                                             NAMES
d827b543d12b   mariadb-hw-4   "/bin/sh -c mysqld"  5 seconds ago  Up 4 seconds   0.0.0.0:3306->3306/tcp, :::3306->3306/tcp   mariadb-test
HW-4 [issue-258-Dockerfile_и_слои_HW-4●●] docker exec -it mariadb-test mysql -uroot -p
Enter password:
Welcome to the MySQL monitor.  Commands end with ; or \g.
Your MySQL connection id is 8
Server version: 8.0.33-0ubuntu0.22.10.2 (Ubuntu)

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

mysql> show databases;
+--------------------+
| Database           |
+--------------------+
| information_schema |
| mysql              |
| performance_schema |
| sys                |
+--------------------+
4 rows in set (0.00 sec)

mysql>
```