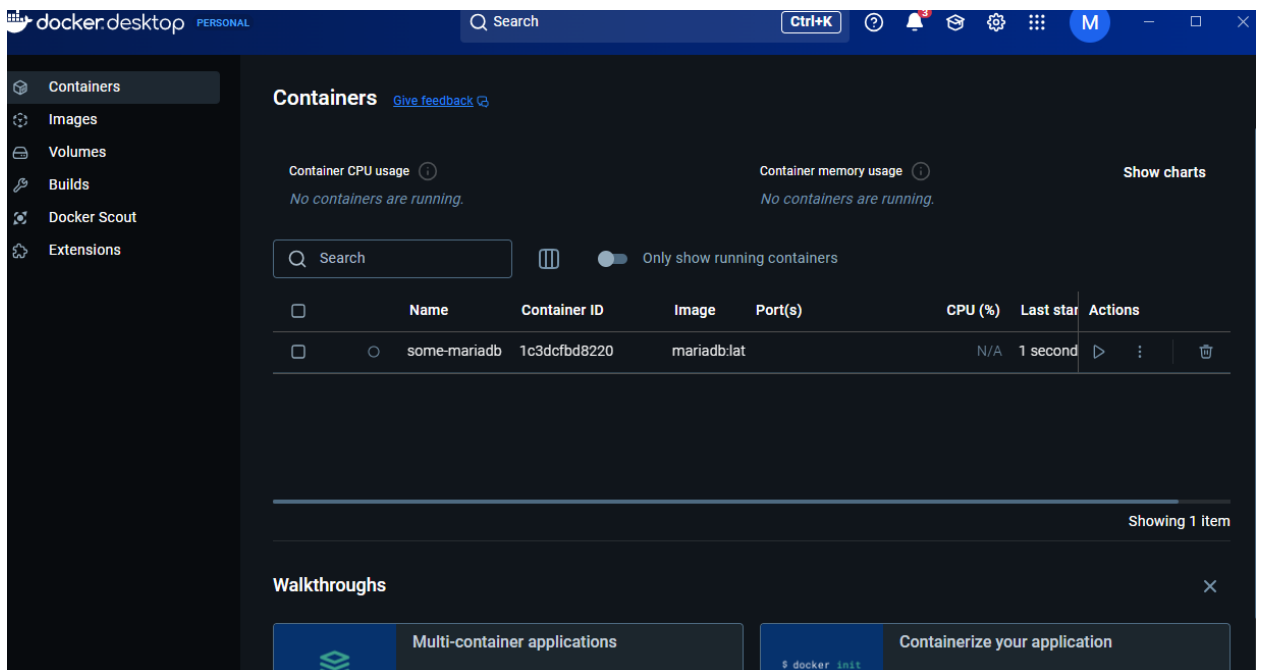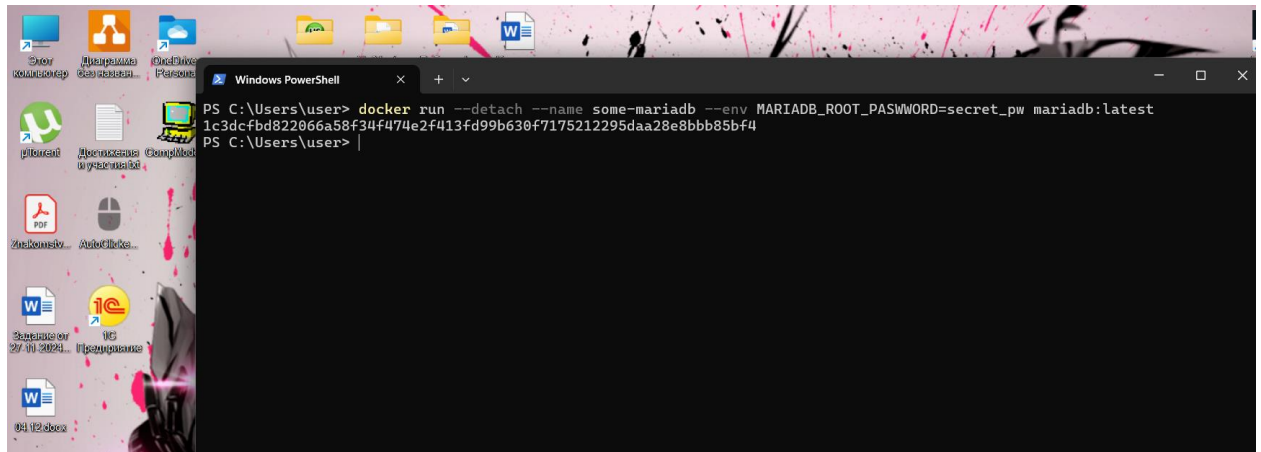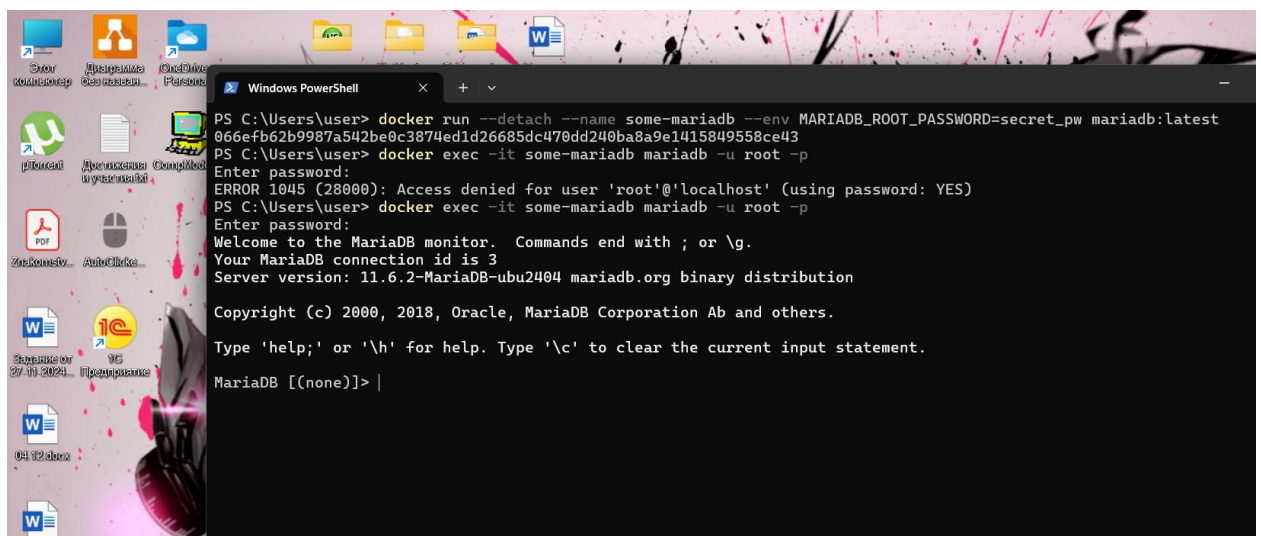Создание и запуск контейнера

После создания заходим в контейнер с логином и паролем, который только что указали

Создаем базу «test»

```
Type help; or \h for help. Type \c to
MariaDB [(none)]> create database test;
Query OK, 1 row affected (0.006 sec)

MariaDB [(none)]> |
```

Создаем пользователя Админа со всеми правами

```
MariaDB [(none)]> create user 'admin_user'@'%' identified by 'admin_password';
Query OK, 0 rows affected (0.011 sec)

MariaDB [(none)]> grant all privileges on test.* to 'admin_user'@'%';
Query OK, 0 rows affected (0.008 sec)

MariaDB [(none)]> flush privileges;
Query OK, 0 rows affected (0.001 sec)

MariaDB [(none)]> |
```

Добавление 2х пользователей с правами «Select»

```
MariaDB [(none)]> create user 'emp_user'@'%' identified by 'emp_password';
Query OK, 0 rows affected (0.008 sec)

MariaDB [(none)]> grant select on test.* to 'admin_user'@'%';
Query OK, 0 rows affected (0.007 sec)

MariaDB [(none)]> flush privileges;
Query OK, 0 rows affected (0.001 sec)

MariaDB [(none)]> create user 'emp1_user'@'%' identified by 'emp1_password';
Query OK, 0 rows affected (0.008 sec)

MariaDB [(none)]> grant select on test.* to 'emp2_user'@'%';
ERROR 1133 (28000): Can't find any matching row in the user table
MariaDB [(none)]> grant select on test.* to 'emp_user'@'%';
Query OK, 0 rows affected (0.005 sec)

MariaDB [(none)]> grant select on test.* to 'emp1_user'@'%';
Query OK, 0 rows affected (0.008 sec)

MariaDB [(none)]> |
```

Проверяем права доступа пользователей (вход только по заданному нами паролю)

```
PS C:\Users\user> docker exec -it some-mariadb mariadb -u admin_user -p
Enter password:
ERROR 1045 (28000): Access denied for user 'admin_user'@'localhost' (using password: YES)
PS C:\Users\user> docker exec -it some-mariadb mariadb -u admin_user -p
Enter password:
ERROR 1045 (28000): Access denied for user 'admin_user'@'localhost' (using password: YES)
PS C:\Users\user> docker exec -it some-mariadb mariadb -u admin_user -p
Enter password:
Welcome to the MariaDB monitor.  Commands end with ; or \g.
Your MariaDB connection id is 7
Server version: 11.6.2-MariaDB-ubu2404 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)]> |
```

```
Windows PowerShell
(C) Корпорация Майкрософт (Microsoft Corporation). Все права защищены.

Установите последнюю версию PowerShell для новых функций и улучшения! https://aka.ms/PSWindows

PS C:\Users\user> docker exec -it some-mariadb mariadb -u read_user -p
Enter password:
Welcome to the MariaDB monitor.  Commands end with ; or \g.
Your MariaDB connection id is 8
Server version: 11.6.2-MariaDB-ubu2404 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)]> |
```

Создадим таблицу logs

```
MariaDB [(none)]> USE test;
Database changed
MariaDB [test]> CREATE TABLE logs ( id INT AUTO_INCREMENT PRIMARY KEY, date DATE, purpose VARCHAR(255));
Query OK, 0 rows affected (0.047 sec)

MariaDB [test]> |
```
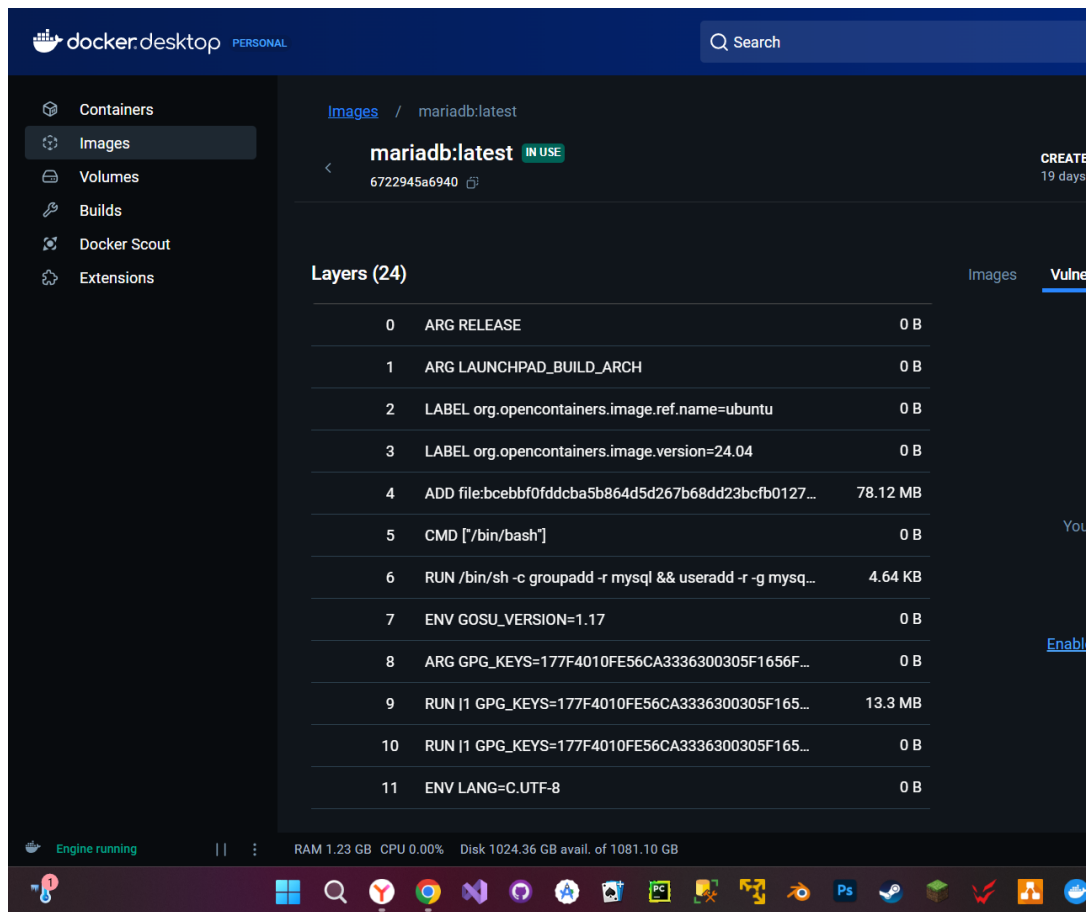
Добавляем записи в таблицу «logs»

```
Database changed
MariaDB [test]> CREATE TABLE logs (id INT AUTO_INCREMENT PRIMARY KEY, date DATE, purpose VARCHAR(255));
ERROR 1050 (42S01): Table 'logs' already exists
MariaDB [test]> insert into logs (дата, цель) values ('2024-12-11', 'hello');
ERROR 1054 (42S22): Unknown column 'дата' in 'INSERT INTO'
MariaDB [test]> insert into logs (date, purpose) values ('2024-12-11', 'hello');
Query OK, 1 row affected (0.008 sec)

MariaDB [test]> select * from logs
    -> select * from logs;
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MariaDB server versi
on for the right syntax to use near 'select * from logs' at line 2
MariaDB [test]>  select * from logs;
+----+------------+---------+
| id | date       | purpose |
+----+------------+---------+
|  1 | 2024-12-11 | hello   |
+----+------------+---------+
1 row in set (0.001 sec)

MariaDB [test]> |
```

Containers

Images

Volumes

Builds

Docker Scout

Extensions

Images / mariadb:latest

< **mariadb:latest** IN USE
6722945a6940

CREATE
19 days

Layers (24)

Images   Vulne

0	ARG RELEASE		0 B
1	ARG LAUNCHPAD_BUILD_ARCH		0 B
2	LABEL org.opencontainers.image.ref.name=ubuntu		0 B
3	LABEL org.opencontainers.image.version=24.04		0 B
4	ADD file:bcebbf0fddcba5b864d5d267b68dd23bcfb0127...		78.12 MB
5	CMD ["/bin/bash"]		0 B
6	RUN /bin/sh -c groupadd -r mysql && useradd -r -g mysq...		4.64 KB
7	ENV GOSU_VERSION=1.17		0 B
8	ARG GPG_KEYS=177F4010FE56CA3336300305F1656F...		0 B
9	RUN |1 GPG_KEYS=177F4010FE56CA3336300305F165...		13.3 MB
10	RUN |1 GPG_KEYS=177F4010FE56CA3336300305F165...		0 B
11	ENV LANG=C.UTF-8		0 B

You

Enabl

Engine running || ⋮   RAM 1.23 GB CPU 0.00%   Disk 1024.36 GB avail. of 1081.10 GB

Layers (24)

12	LABEL org.opencontainers.image.authors=MariaDB Co...	0 B
13	ARG MARIADB_VERSION=1:11.6.2+maria~ubu2404	0 B
14	ENV MARIADB_VERSION=1:11.6.2+maria~ubu2404	0 B
15	ARG REPOSITORY=http://archive.mariadb.org/mariadb-...	0 B
16	RUN |3 GPG_KEYS=177F4010FE56CA3336300305F165...	133 B
17	RUN |3 GPG_KEYS=177F4010FE56CA3336300305F165...	315.44 MB
18	VOLUME [/var/lib/mysql]	0 B
19	COPY healthcheck.sh /usr/local/bin/healthcheck.sh # b...	10.35 KB
20	COPY docker-entrypoint.sh /usr/local/bin/ # buildkit	26.47 KB
21	ENTRYPOINT ["docker-entrypoint.sh"]	0 B
22	EXPOSE map[3306/tcp:{}]	0 B
23	CMD ["mariadbd"]	0 B