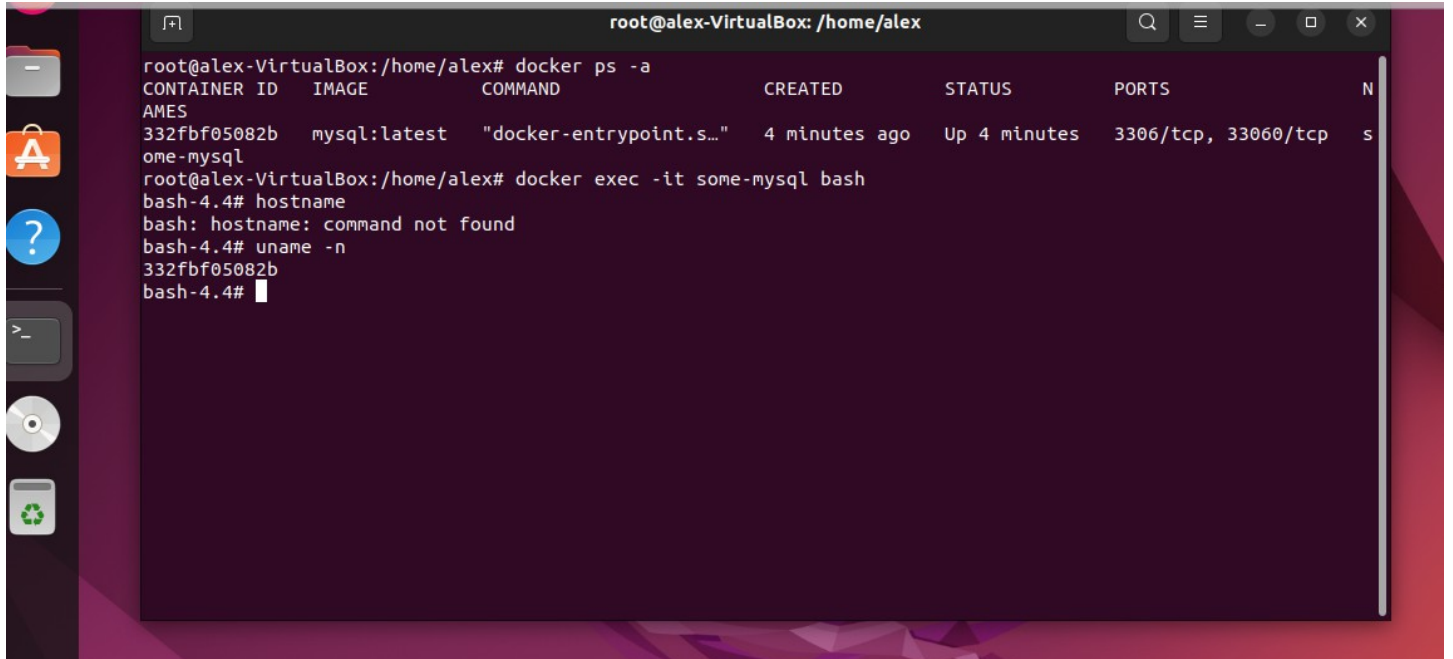


```
alex@alex-VirtualBox:~$ sudo apt install docker.io
[sudo] password for alex: 
```

Делаем переменную окружение  
hostname

```
alex@alex-VirtualBox:~$ sudo docker pull container-registry.oracle.com/mysql/com
munity-server:latest
```

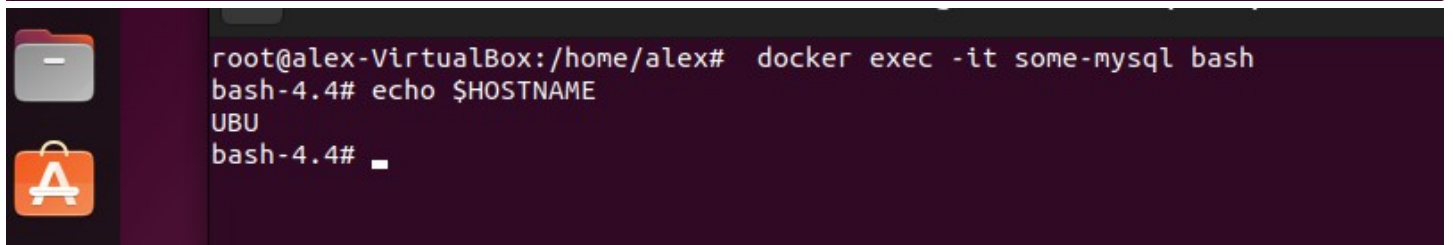
```
alex@alex-VirtualBox:~$ sudo docker run --name some-mysql -e MYSQL_ROOT_PASSWORD
=my-secret-pw -d mysql:latest
```



The terminal window shows the following commands and output:

```
root@alex-VirtualBox: /home/alex
root@alex-VirtualBox:/home/alex# docker ps -a
CONTAINER ID   IMAGE          COMMAND                  CREATED        STATUS        PORTS
AMES          332fbf05082b  mysql:latest           "docker-entrypoint.s..."  4 minutes ago  Up 4 minutes  3306/tcp, 33060/tcp
ome-mysql
root@alex-VirtualBox:/home/alex# docker exec -it some-mysql bash
bash-4.4# hostname
bash: hostname: command not found
bash-4.4# uname -n
332fbf05082b
bash-4.4#
```

```
root@alex-VirtualBox:/home/alex# docker run --name some-mysql -e HOSTNAME=UBU -e MYSQL_ROOT_PASSWORD=my-secret-pw -d mysql:latest -p 3306:3306
6a914f9025172ed9621fca5fa0d5f9a118067430f3a3314b106814539b257071
```



The terminal window shows the following commands and output:

```
root@alex-VirtualBox:/home/alex# docker exec -it some-mysql bash
bash-4.4# echo $HOSTNAME
UBU
bash-4.4#
```

Виртуальная машина сообщает, что гостевая ОС поддерживает **интеграцию указателя мыши**. Это означает, что не требуется

```
root@alex-VirtualBox: /home/alex

root@alex-VirtualBox:/home/alex# docker exec -it some-mysql bash
bash-4.4# mysql -u root -p
Enter password:
ERROR 1045 (28000): Access denied for user 'root'@'localhost' (using password: YES)
bash-4.4# mysql -u root -p
Enter password:
Welcome to the MySQL monitor.  Commands end with ; or \g.
Your MySQL connection id is 11
Server version: 8.0.33 MySQL Community Server - GPL

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affiliates. Other names may be trademarks of their respective
owners.

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 (0.02 sec)
```

```
mysql> create database testDB;
Query OK, 1 row affected (0.52 sec)
```

Заполняем mysql

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

mysql> use testDB;
Database changed
mysql>
```

```
mysql> create table `employees` ( `id` int(11) NOT NULL AUTO_INCREMENT, `first_name` varchar(64) DEFAULT NULL,
`last_name` varchar(64) DEFAULT NULL, `email` varchar(64) DEFAULT NULL, `department` varchar(64) DEFAULT NULL
, `salary` DECIMAL(10,2) DEFAULT NULL, PRIMARY KEY(`id`))
-> ENGINE = InnoDB AUTO_INCREMENT=1 DEFAULT CHARSET = latin1;
Query OK, 0 rows affected, 1 warning (3.22 sec)

mysql> INSERT INTO `employees` (`id`,`first_name`,`last_name`,`email`,`department`,`salary`)
-> VALUES (1, 'Sumanta','Silwal','sumantasilwal10@gmail.com','Computer Design', '5000.00');
Query OK, 1 row affected (0.40 sec)

mysql> select * from employees;
+-----+-----+-----+-----+-----+-----+
| id | first_name | last_name | email | department | salary |
+-----+-----+-----+-----+-----+-----+
| 1 | Sumanta | Silwal | sumantasilwal10@gmail.com | Computer Design | 5000.00 |
+-----+-----+-----+-----+-----+-----+
1 row in set (0.00 sec)
```

```
mysql> CREATE USER 'external'@'%' IDENTIFIED BY 'password';
Query OK, 0 rows affected (0.58 sec)

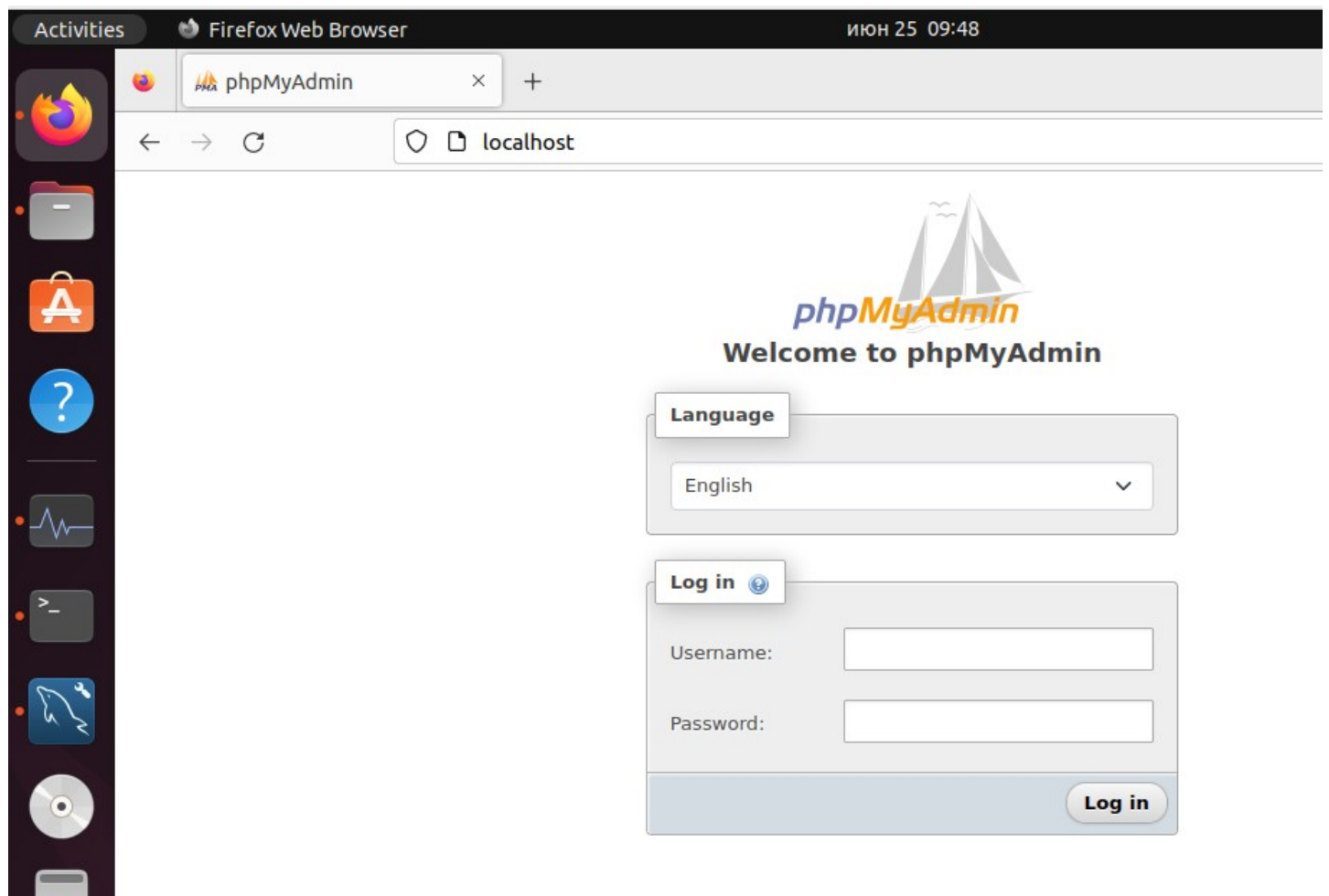
mysql> GRANT ALL PRIVILEGES ON *.* TO 'external'@'%' WITH GRANT OPTION;
Query OK, 0 rows affected (0.93 sec)

mysql> FLUSH PRIVILEGES;
Query OK, 0 rows affected (0.12 sec)
```

Делаем внешнего юзера для удобства, подключаемся через phpmyAdmin

```
root@alex-VirtualBox:/home/alex# docker run --name phpmyadmin -d --link some-mysql:db -p 80:80 phpmyadmin
4682cf6c2250a8ba8324a83a40011eb4d94d7584daa2e0cd8dc4df1647e78875
```

```
root@alex-VirtualBox:/home/alex# docker ps -a
CONTAINER ID   IMAGE          COMMAND                  CREATED        STATUS        PORTS
4682cf6c2250   phpmyadmin     "/docker-entrypoint...." 35 seconds ago Up 29 seconds 0.0.0.0:80->80/tcp, :::80->80/tcp
42c5dedd36e4   mysql:latest   "docker-entrypoint.s..." 57 minutes ago Up 19 minutes 0.0.0.0:3306->3306/tcp, :::3306->3306/tcp, 33060/tcp
some-mysql
```



Activities Firefox Web Browser июн 25 09:58

localhost / db / testDB / × +

localhost/index.php?route=/sql&pos=0&db=testDB&table=employees

Server: db > Database: testDB > Table: employees

**phpMyAdmin**

Recent Favorites

- New
  - information\_schema
  - mysql
  - performance\_schema
  - sys
  - testDB
    - New
      - employees
      - Columns
      - Indexes

Showing rows 0 - 0 (1 total, Query took 0.0127 seconds.)

```
SELECT * FROM `employees`
```

☐ Profiling [ Edit inline ] [ Edit ] [ Explain SQL ] [ Create PHP code ] [ Refresh ]

☐ Show all | Number of rows: 25 | Filter rows: Search this table

Extra options

	id	first_name	last_name	email	department	salary
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	1	Sumanta	Silwal	sumantasilwal10@gmail.com	Computer Design	5000.00

☐ Check all | With selected: ☐ Edit ☐ Copy ☐ Delete ☐ Export

☐ Show all | Number of rows: 25 | Filter rows: Search this table

Query results operations

☐ Print ☐ Copy to clipboard ☐ Export ☐ Display chart ☐ Create view

Console

Правый Ctrl