## 12 ДЗ - RBAC контроль доступа, квоты и ограничения.

## Собираем Dockerfile и docker-compose.

```
clickhouse-25.2.1.Dockerfile:
```

FROM clickhouse/clickhouse-server:25.2.1 MAINTAINER Maksim Kulikov <max.uoles@rambler.ru>

RUN apt-get update -y --fix-missing RUN DEBIAN\_FRONTEND=noninteractive apt-get -yq upgrade RUN apt-get install nano mc python3 pip kafkacat -y RUN pip install clickhouse\_driver

EXPOSE 8123 9000

ENTRYPOINT ["/entrypoint.sh"]

Собираем образ командой:

docker build -f clickhouse-25.2.1.Dockerfile -t uoles/clickhouse:25.2.1.

## Запускаем:

```
docker run -d \
-p 18123:8123 \
-p 19000:9000 \
-e CLICKHOUSE_DB=my_database \
-e CLICKHOUSE_USER=username \
-e CLICKHOUSE_DEFAULT_ACCESS_MANAGEMENT=1 \
-e CLICKHOUSE_PASSWORD=password \
--name clickhouse-server \
--ulimit nofile=262144:262144 \
uoles/clickhouse:25.2.1
```

```
## 89.169.3.137 - Putty

root@4694741-uoles:/home/uoles/OtusClickHouseHW/docker# docker build -f clickhouse-25.2.1.Dockerfile -t uoles/clickhouse:25.2.1 .

[+] Building 1.0s (10/10) FINISHED

=> [internal] load build definition from clickhouse-25.2.1.Dockerfile

D => => transferring dockerfile: 374B

=> WARN: MaintainerDeprecated: Maintainer instruction is deprecated in favor of using label (line 2)

=> [internal] load metadata for docker.io/clickhouse-server:25.2.1

=> [auth] clickhouse/clickhouse-server:pull token for registry-1.docker.io

=> [internal] load .dockerignore

C => > transferring context: 2B

=> [1/5] FROM docker.io/clickhouse/clickhouse-server:25.2.1@sha256:1775bf0ed27dfaf340f4c5bba4a16afb1199fcedc1fc70b43c6dee488acbf3d9

=> CACHED [2/5] RUN apt-get update -y --fix-missing

=> CACHED [3/5] RUN ptp-get update -y --fix-missing

=> CACHED [3/5] RUN ptp-get update -y --fix-missing

=> CACHED [3/5] RUN ptp-get install nano mc python3 pip kafkacat -y

=> CACHED [5/5] RUN ptp-get install nano mc python3 pip kafkacat -y

=> exporting to image

2 => exporting to image

2 => exporting layers

=> => writing image sha256:d782932fcb5fc78221f0f4971beeb2a3118f115a1b93d3b1fc27bcea70ac0b3f

=> => naming to docker.io/uoles/clickhouse:25.2.1

1 warning found (use docker --debug to expand):

1 warning found (use docker --debug to expand):

1 warning found (use docker --debug to expand):
```

#### Создание пользователя и роли.

Выполняем запросы:

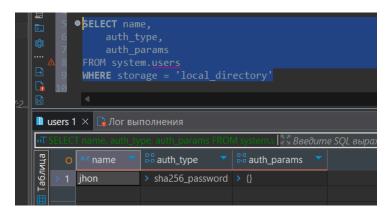
```
CREATE USER jhon IDENTIFIED WITH sha256_password BY 'qwerty'

CREATE ROLE devs;

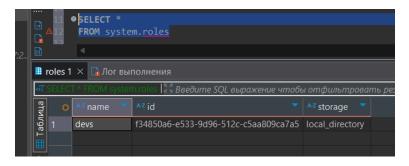
GRANT SELECT ON my_database.* TO devs;

GRANT devs TO jhon;
```

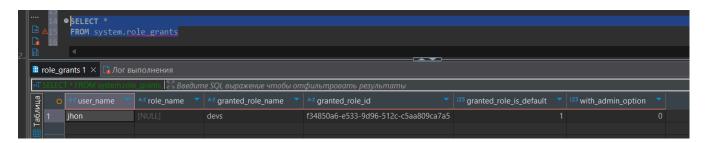
Проверяем наличие пользователя и роли:



## SELECT \* FROM system.roles



# SELECT \* FROM system.role\_grants



```
grants.role_name,
    users.name AS role_member,
    grants.access_type,
    grants.database,
    grants.table
FROM system.grants
LEFT JOIN system.role_grants ON grants.role_name = role_grants.granted_role_name
LEFT JOIN system.users ON role_grants.user_name = users.name
WHERE users.name = 'jhon'
```

