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

#### Собираем Dockerfile.

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

>> [internal] load build definition is deprecated in favor of using label (line 2)

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

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

>> [internal] load dockerignore

(=> => transferring context: 2B

>> [1/5] FROM docker.io/clickhouse-server:25.2.1@sha256:1775bf0ed27dfaf340f4c5bba4al6afbl199fcedclfc70b43c6dee488acbf3d9

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

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

>> CACHED [3/5] RUN bBBIAN FRONTEND=noninteractive apt-get -yq upgrade

>> CACHED [5/5] RUN pip install clickhouse_driver

>> exporting to image

>> => > writing image sha256:d782932fcb5fc78221f0f4971beeb2a3118f115alb93d3blfc27bcea70ac0b3f

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

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

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

#### Создание пользователя и роли.

Выполняем запросы:

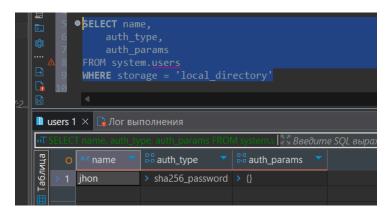
```
CREATE USER jhon IDENTIFIED WITH sha256_password BY 'qwerty'

CREATE ROLE devs;

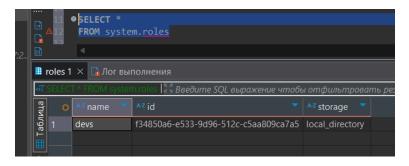
GRANT SELECT ON my_database.* TO devs;

GRANT devs TO jhon;
```

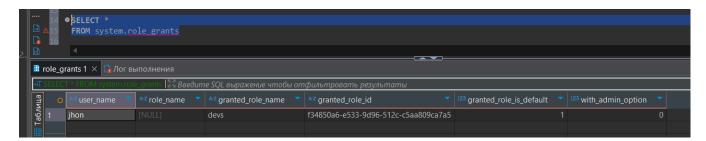
Проверяем наличие пользователя и роли:



## 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'
```

