How to run keycloak using docker

Step 1: Create Docker file

In this step you should add a docker file to make a custom image for dev

```
WORKDIR /opt/keycloak
# for demonstration purposes only, please make sure to use proper certificates
in production instead
RUN keytool -genkeypair -storepass password -storetype PKCS12 -keyalg RSA -
keysize 2048 -dname "CN=server" -alias server -ext
"SAN:c=DNS:localhost,IP:127.0.0.1" -keystore conf/server.keystore
RUN /opt/keycloak/bin/kc.sh build

FROM quay.io/keycloak/keycloak:latest
COPY --from=builder /opt/keycloak/ /opt/keycloak/

ENV KC_HOSTNAME=localhost
ENTRYPOINT ["/opt/keycloak/bin/kc.sh", "start-dev"]
```

Step 2: Create docker compose file

Now you should add a Docker Compose file to define and manage your Keycloak container along with its dependencies, making it easier to start and manage the service.

```
networks:
keycloak-network:
driver: bridge
```

Step 3: Run container

Now you can run the service using this command:

docker-compose up -d

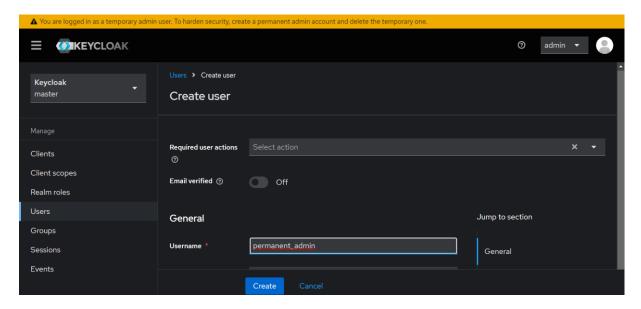
If you prefer a simpler approach and do not wish to create a custom Dockerfile or Docker Compose configuration, you can use the following single command to quickly set up and run a Keycloak container:

```
# docker run --name keycloak_dev -p 8081:8080 -d -e
KC_BOOTSTRAP_ADMIN_USERNAME=admin -e
KC_BOOTSTRAP_ADMIN_PASSWORD=admin quay.io/keycloak/keycloak:latest start-dev
```

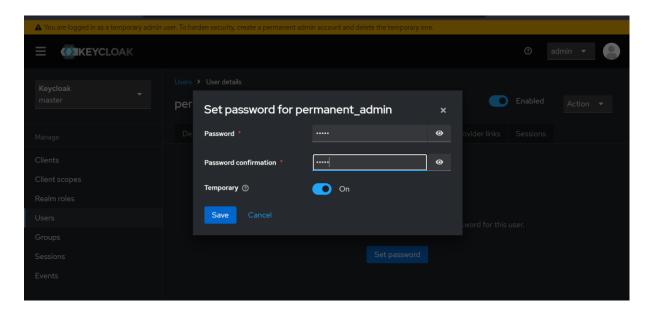
Step 4: Create permanent admin account

The created admin account created using env variables is temporary account so you should add a permanent one.

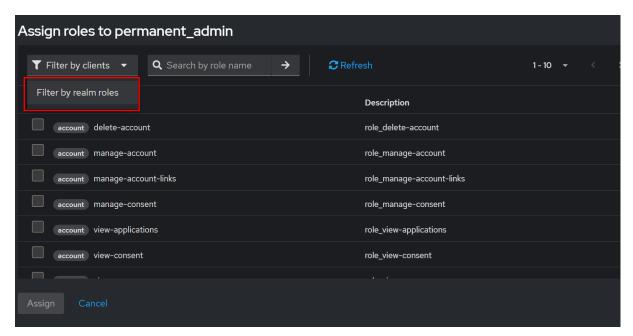
So after authenticating using the temporary account go to Users section and Create User after that you should assign role admin to it

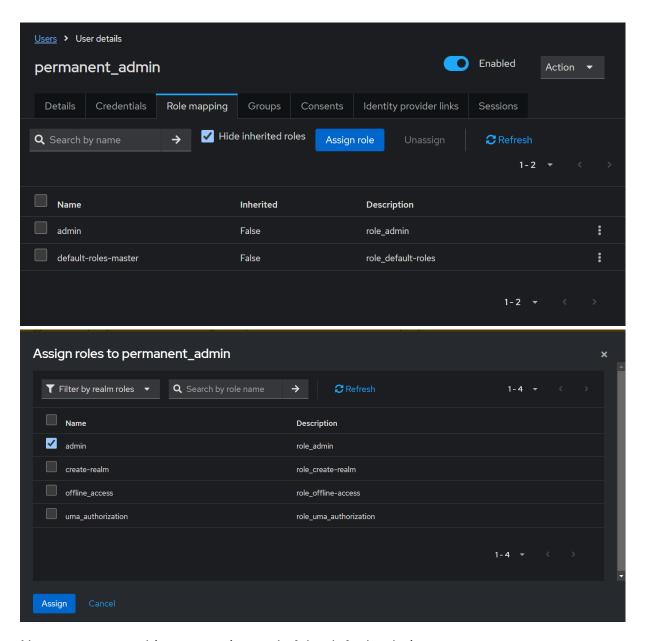


Set password:



Assign admin role:





Now you can use this account instead of the default admin.