Baixar o Docker:

https://docs.docker.com/desktop/install/windows-install/

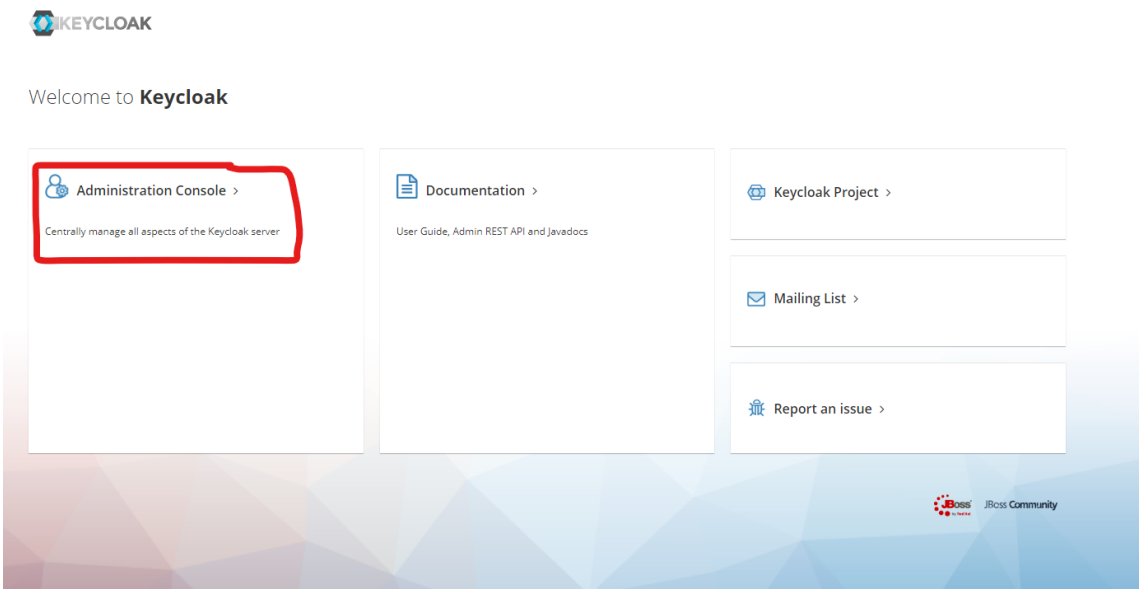
Com o Docker aberto rodar o seguinte comando no CMD em modo administrador:

docker run --name keycloak -p 8080:8080 -e KEYCLOAK_USER=admin -e KEYCLOAK_PASSWORD=admin quay.io/keycloak/keycloak:14.0.0

Após o comando aguardar de 2 a 4 minutos para a aplicação subir.

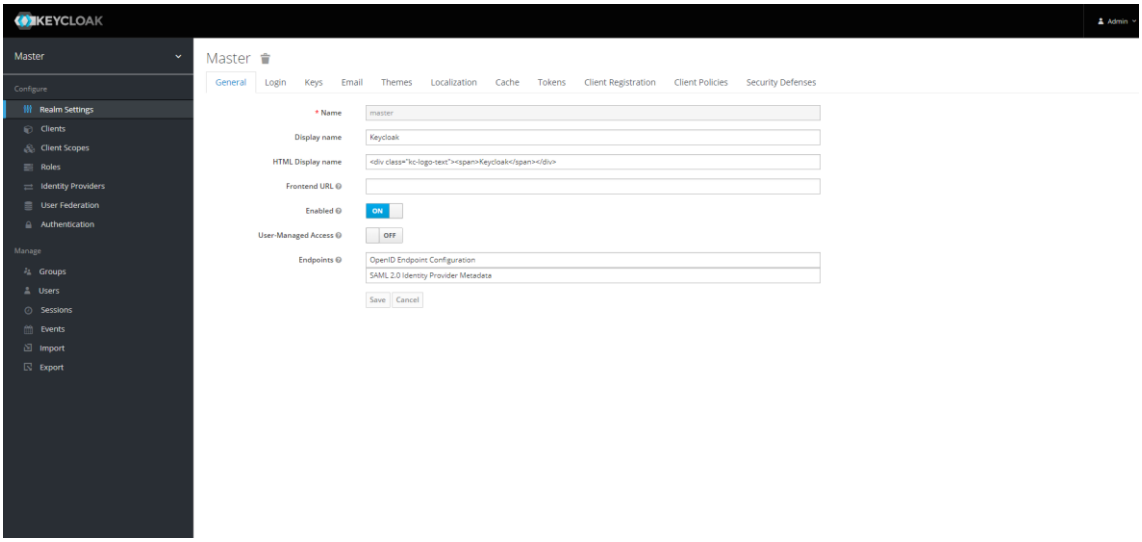
Acessar o container via url: localhost:8080

Acessar o link administration Console

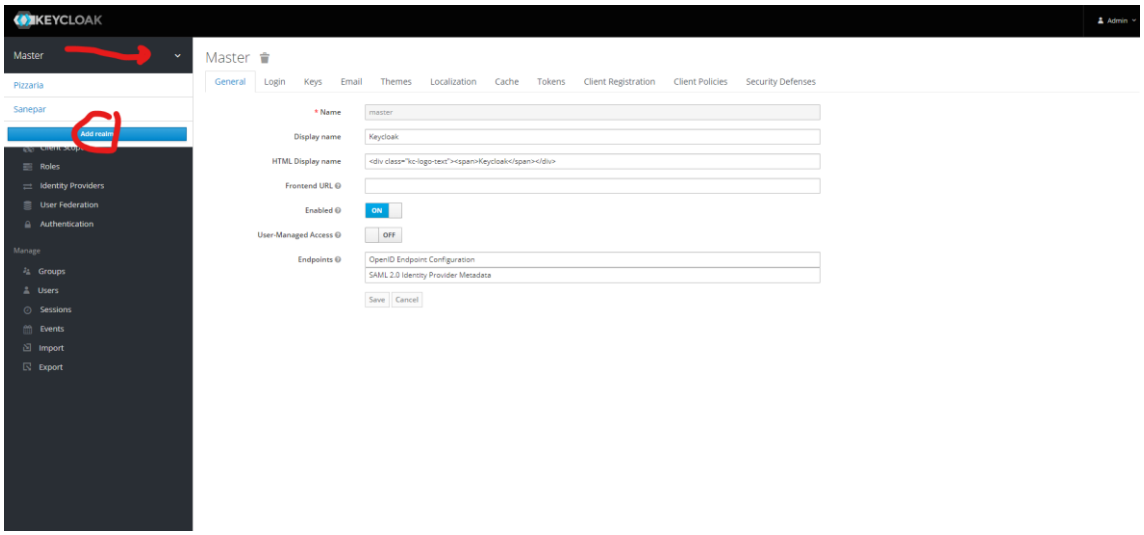


Login/senha: admin/admin

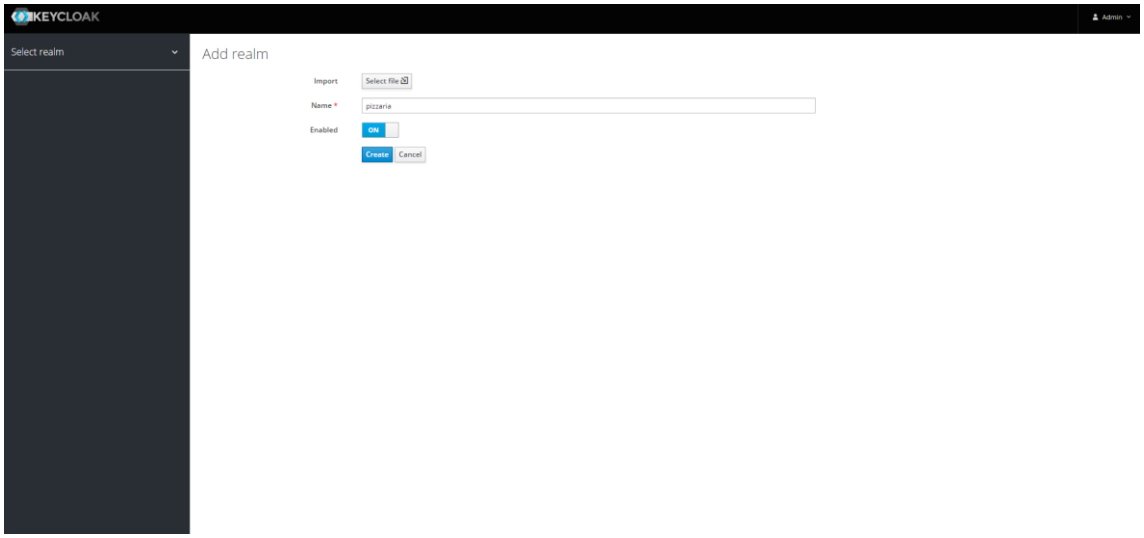
Tela inicial



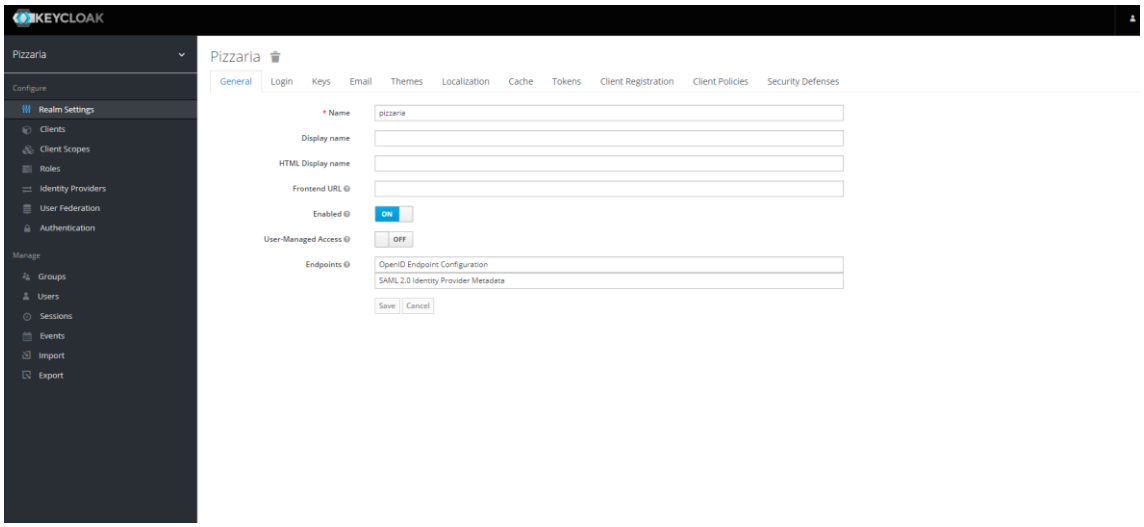
Na tela de login, logo abaixo do nome KeyCloak, selecionar a seta ao lado de “Master” e em seguida selecionar add realm



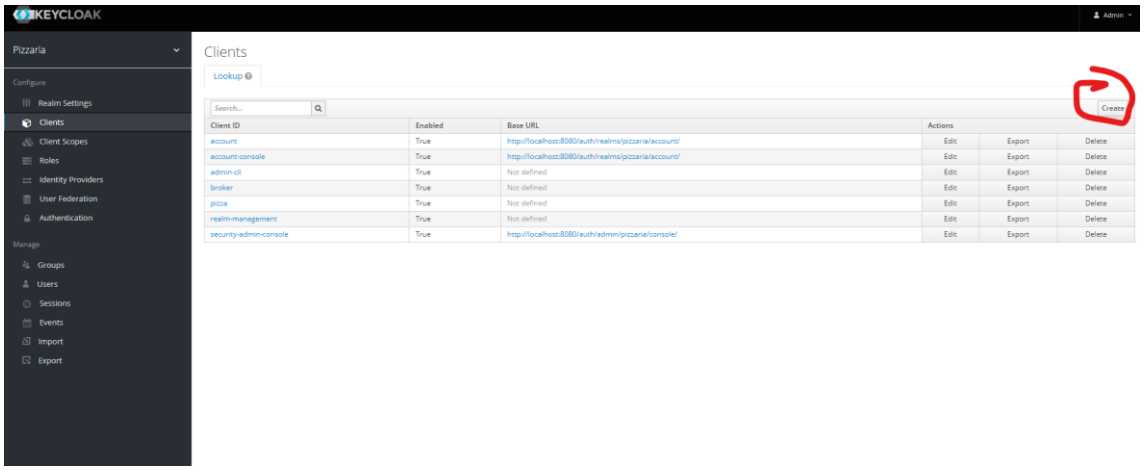
Adicione o nome do realm e selecione create



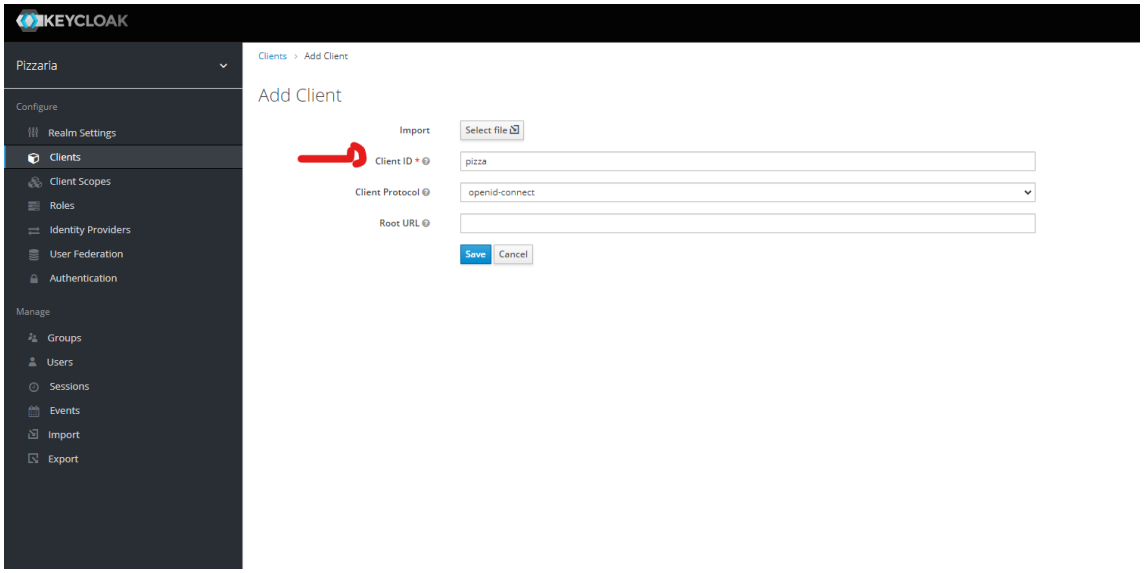
Tela após selecionar o create



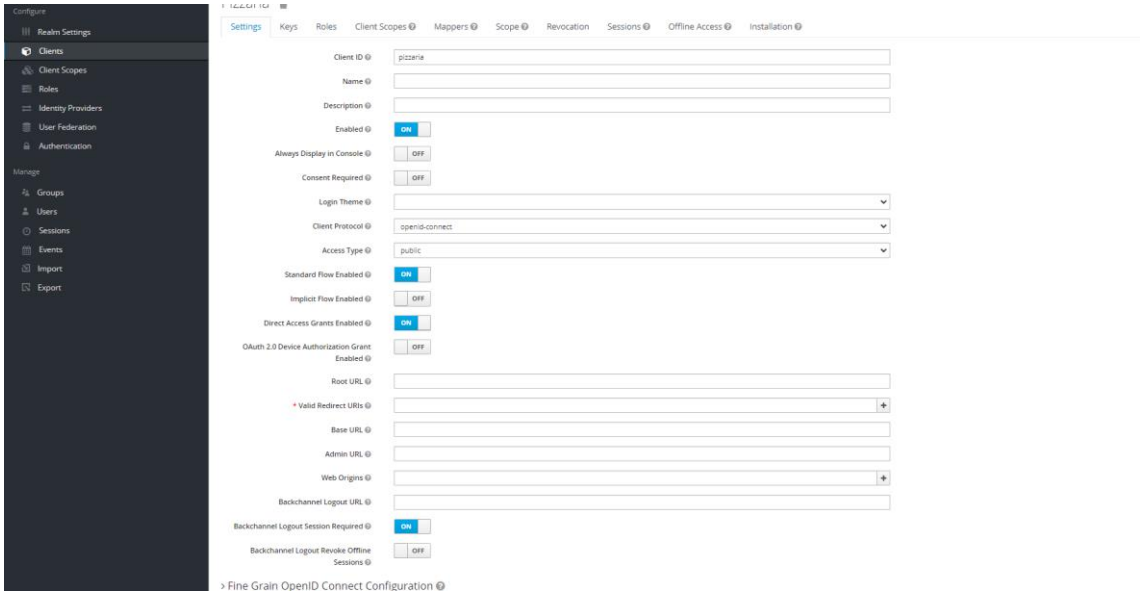
Agora selecione o Cliente (logo abaixo de Real Settings) e clique em add create



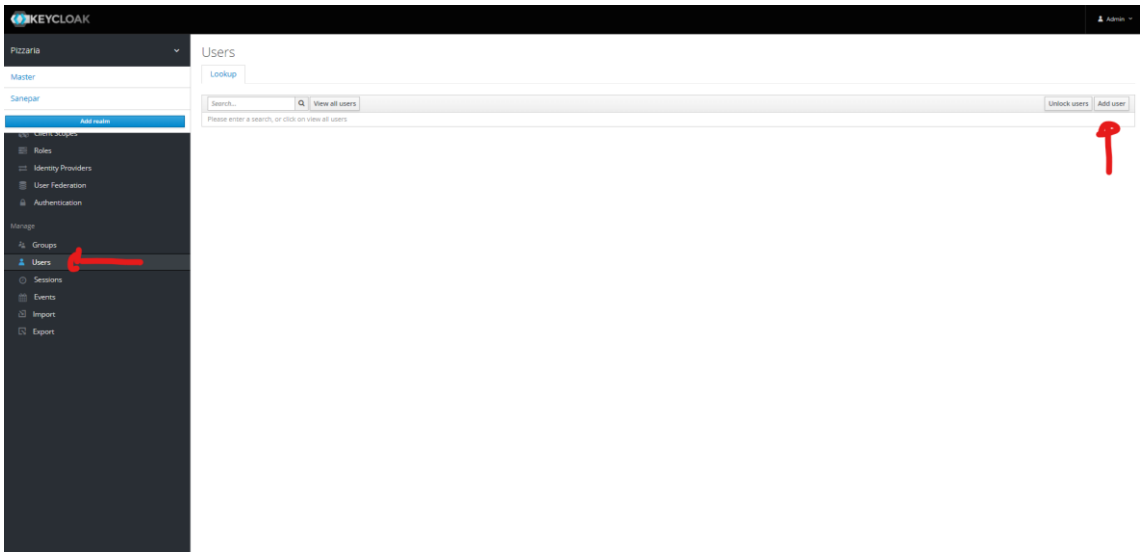
Só adicione o nome do client_id e clique em save



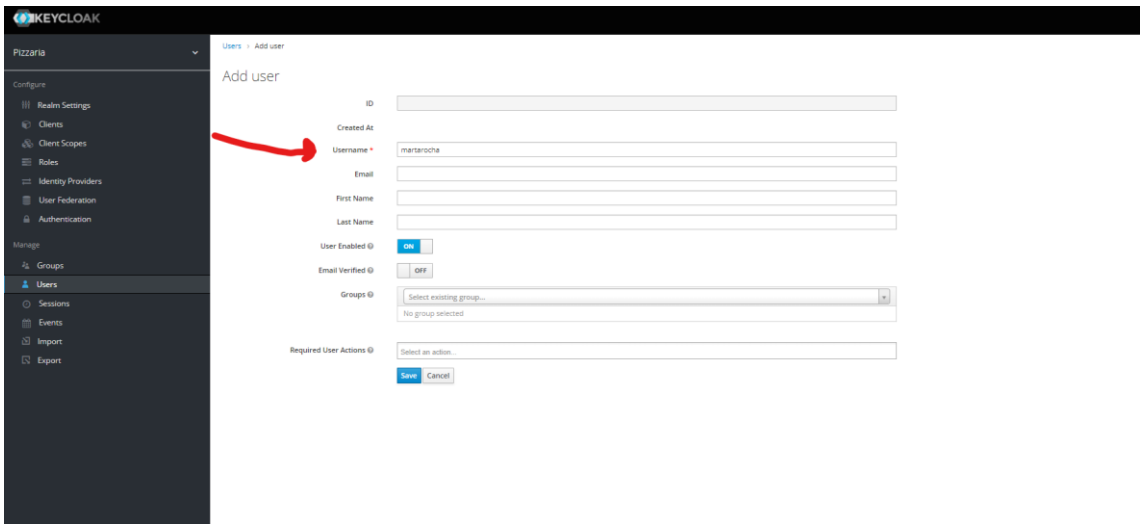
Tela após criar em save -> Não precisa fazer mais nada



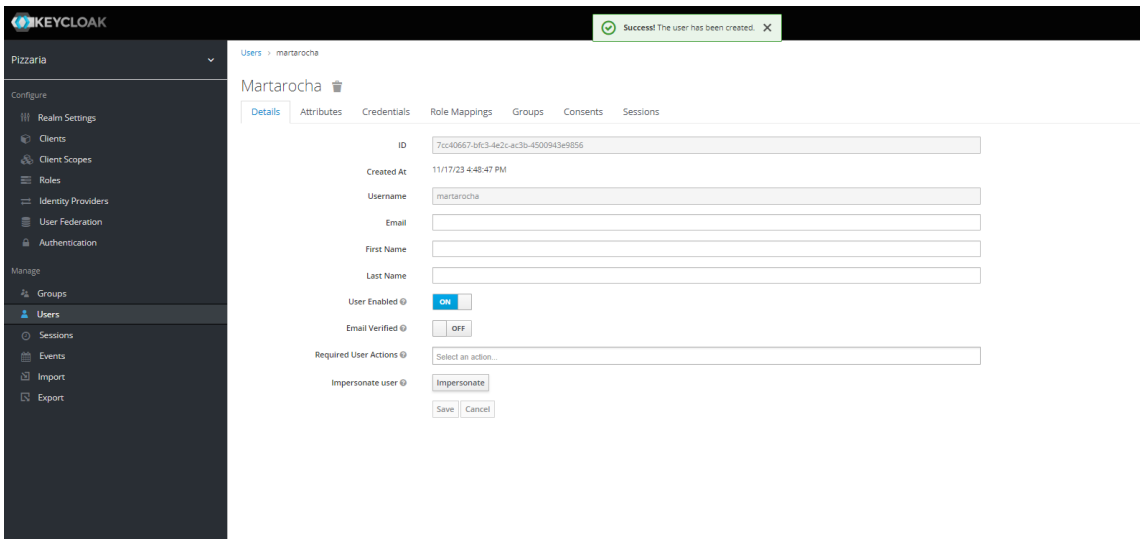
Agora basta criar um usuário, para isso selecione no menu esquerdo o campo User, logo abaixo de groups e em seguida selecione o add user



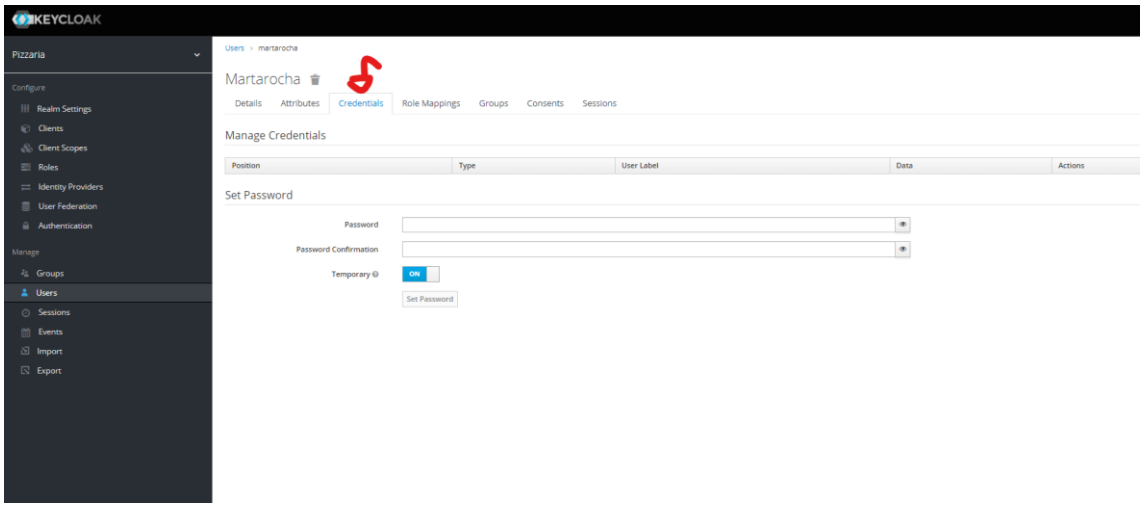
Coloque apenas um username e clique em save



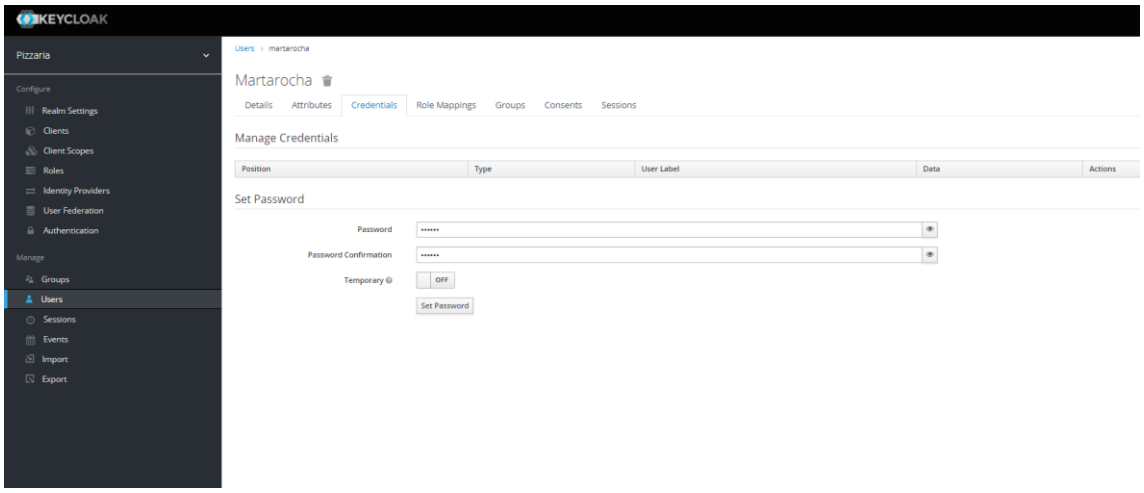
Tela Após salvar



Ainda na tela de usuário clique em credentials

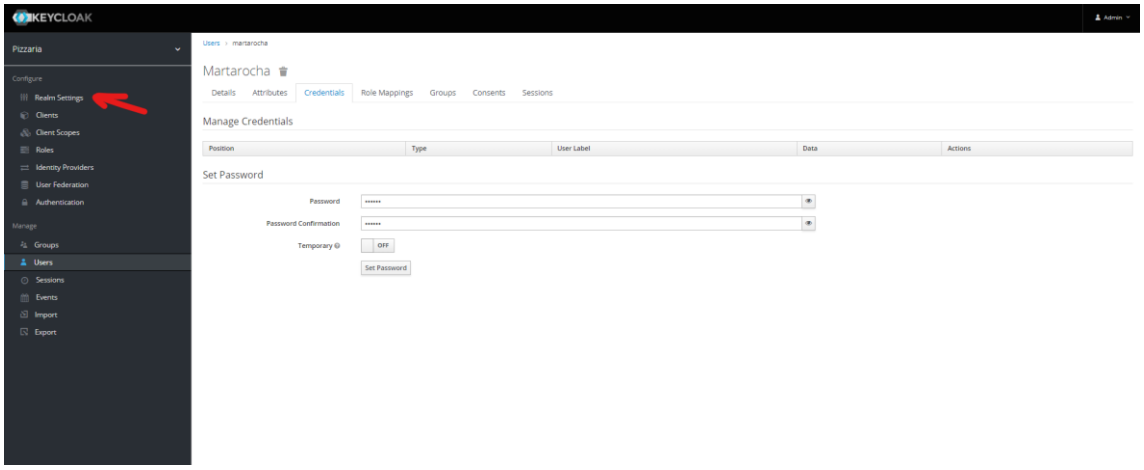


Preencha a senha e a confirmação e desabilite o campo “temporary” e, ao clicar em set, tudo sumira, isso é por questão de segurança.

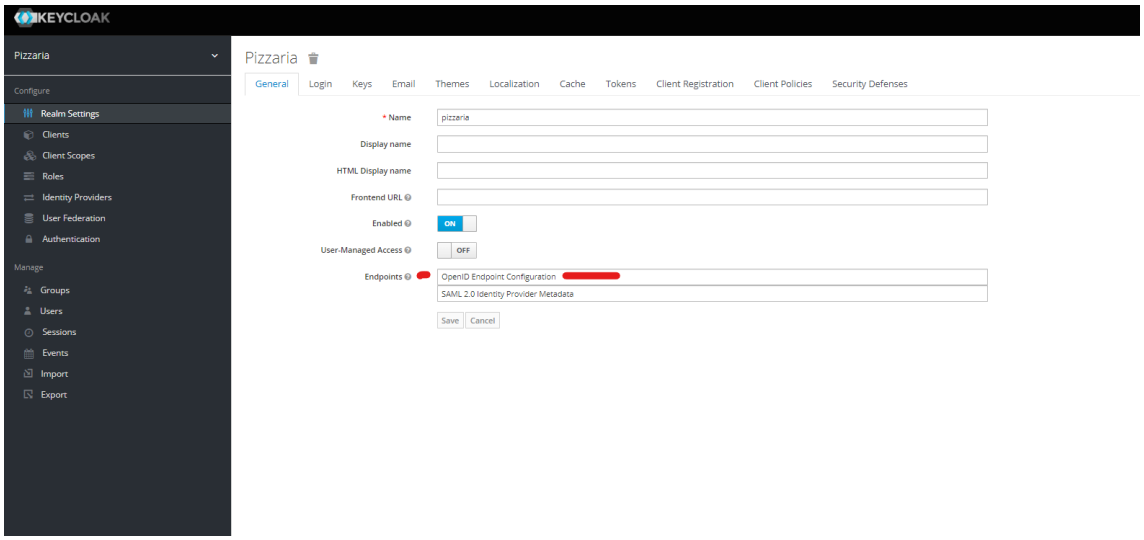


Pronto seu Keycloak está pronto para o uso.

Achando as rotas de requisição: selecione “Realm Settings”



Clique em OpenId



Abrirá uma nova tela com várias informações, agora atenção para as url

Em vermelho: Usar no back-end no application.properties, pois a aplicação usa essa url para verificar o token

Em verde: URL para requisitar um token, usamos ela no front ou neste caso vamos usar no postman.


```
{
  "issuer": "http://localhost:8080/auth/realms/pizzaria",
  "authorization_endpoint": "http://localhost:8080/auth/realms/pizzaria/protocol/openid-connect/auth",
  "token_endpoint": "http://localhost:8080/auth/realms/pizzaria/protocol/openid-connect/token",
  "introspection_endpoint": "http://localhost:8080/auth/realms/pizzaria/protocol/openid-connect/token/introspect",
  "userinfo_endpoint": "http://localhost:8080/auth/realms/pizzaria/protocol/openid-connect/userinfo",
  "end_session_endpoint": "http://localhost:8080/auth/realms/pizzaria/protocol/openid-connect/logout",
  "jwks_uri": "http://localhost:8080/auth/realms/pizzaria/protocol/openid-connect/certs",
  "check_session_iframe": "http://localhost:8080/auth/realms/pizzaria/protocol/openid-connect/login-status-iframe.html",
  "grant_types_supported": [
    "authorization_code",
    "implicit",
    "refresh_token",
    "password",
    "client_credentials",
    "urn:ietf:params:oauth:grant-type:device_code",
    "urn:openid:params:grant-type:ciba"
  ],
  "response_types_supported": [
    "code",
    "none",
    "id_token",
    "token",
    "id_token token",
    "code id_token",
    "code token",
    "code id_token token"
  ],
  "subject_types_supported": [
    "public",
```


Requisição via postman

Inserir a rota vermelha na URL do postman, no tipo de requisição post.

No body selecionar c-www-form-urlencoded

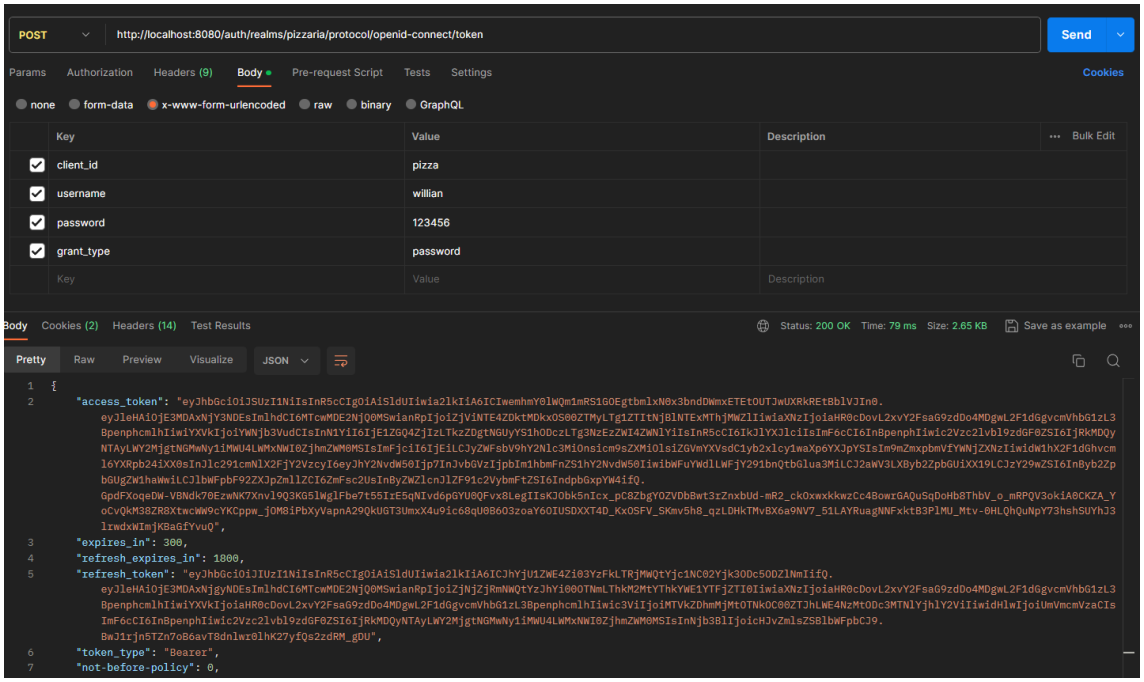
Informar as chaves:

Cliente_id: aquele nome de cliente que criamos depois de criar o realm

Username: nome do usuário criado

Password: senha do usuário

Grant_type: password -> deixar assim por padrão.



Toda requisição ao back deverá ter esse jwt no header.

No Back end:

Inserir as dependências:

```
            </dependency>
                    <dependency>
                <groupId>org.springframework.security</groupId>
                <artifactId>spring-security-config</artifactId>
            </dependency>
            <dependency>
                <groupId>org.springframework.boot</groupId>
                <artifactId>spring-boot-starter-oauth2-resource-
server</artifactId>
            </dependency>
```

E inserir no application :

```
server.port=9005
spring.security.oauth2.resourceserver.jwt.issuer-
uri=http://localhost:8080/auth/realms/pizzaria
```

URL é referente à marcação vermelha