

Keycloak API to create users returns a 403 Forbidden

Asked 3 years, 5 months ago Modified 3 years, 5 months ago Viewed 5k times



Experimenting with Keycloak as an Identity Provider. I'm running it by using the `./standalone.sh` script.

4



So, I obtain the `access_token` like this:



```
curl --request POST \  
  --url http://localhost:8080/auth/realms/master/protocol/openid-connect/token \  
  --header 'Content-Type: application/x-www-form-urlencoded' \  
  --data grant_type=client_credentials \  
  --data client_id=admin-cli \  
  --data client_secret=<the-client-secret-under-master-realm-for-admin-cli-client>
```

Response:

```
{  
  "access_token": "the-access-token",  
  "expires_in": 60,  
  "refresh_expires_in": 0,  
  "token_type": "Bearer",  
  "not-before-policy": 0,  
  "scope": "profile email"  
}
```

And then quickly, under my `test-realm` I try to create a user as follows:

```
curl --request POST \  
  --url http://localhost:8080/auth/admin/realms/test-realm/users \  
  --header 'Authorization: Bearer the-access-token' \  
  --header 'Content-Type: application/json' \  
  --data '{  
    "firstName": "Sergey",  
    "lastName": "Kargopolov",  
    "email": "test@test.com",  
    "enabled": "true",  
    "username": "app-user"  
  }'
```

And I get hit with a `403`:

```
< HTTP/1.1 403 Forbidden  
< X-XSS-Protection: 1; mode=block  
< X-Frame-Options: SAMEORIGIN  
< Referrer-Policy: no-referrer  
< Date: Thu, 28 Jan 2021 23:43:57 GMT  
< Connection: keep-alive  
< Strict-Transport-Security: max-age=31536000; includeSubDomains  
< X-Content-Type-Options: nosniff  
< Content-Type: application/json  
< Content-Length: 25
```

Is there something I'm missing? I'm following [this tutorial](#) and I'm doing everything exactly as described!

Edit: I tried the Password Grant way to obtain the Bearer Token and that worked, but NOT the client secret way. I obviously prefer the client secret way (which is where I'm stuck currently). What could be the issue here?

keycloak

keycloak-services

keycloak-rest-api

Share Edit Follow

edited Jan 29, 2021 at 7:05



dreamcrash

50.2k ● 26 ● 102 ● 126

asked Jan 28, 2021 at 23:45



Saturnian

1,868 ● 8 ● 45 ● 72

1 Answer

Sorted by: Highest score (default) ▾



2



To create the user using the Keycloak Rest API, one just need to request from the *admin-cli* client a token on behalf of the admin user by providing its name and password, for instance as follows:

```
TOKEN=$(curl -k -sS -d "client_id=admin-cli" \
-d "username=$ADMIN_NAME" \
-d "password=$ADMIN_PASSWORD" \
-d "grant_type=password" \
http://$KEYCLOAK_IP/auth/realms/master/protocol/openid-connect/token)
```

from the `$TOKEN` object extract the access token (let us named `$ACCESS_TOKEN`).

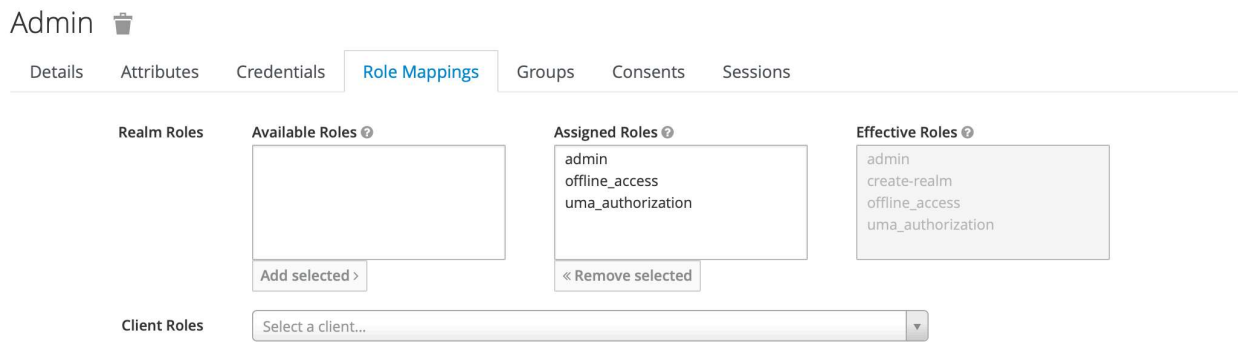
And then create the user as follows:

```
curl -k -sS -X POST https://$KEYCLOAK_IP/auth/admin/realms/$REALM_NAME/users \
-H "Content-Type: application/json" \
-H "Authorization: Bearer $ACCESS_TOKEN" \
-d "$USER_JSON_DATA"
```

`$USER_JSON_DATA` will be the json data representation of the user to be created. There is no need to add the role *admin* to the *master* admin deployed with Keycloak by default.

If setup normally, you would just need to know (as I already described) the *admin*'s name and password, which is configured in the initial setup anyway.

If you click on the *admin* user > roles, you would see the following:



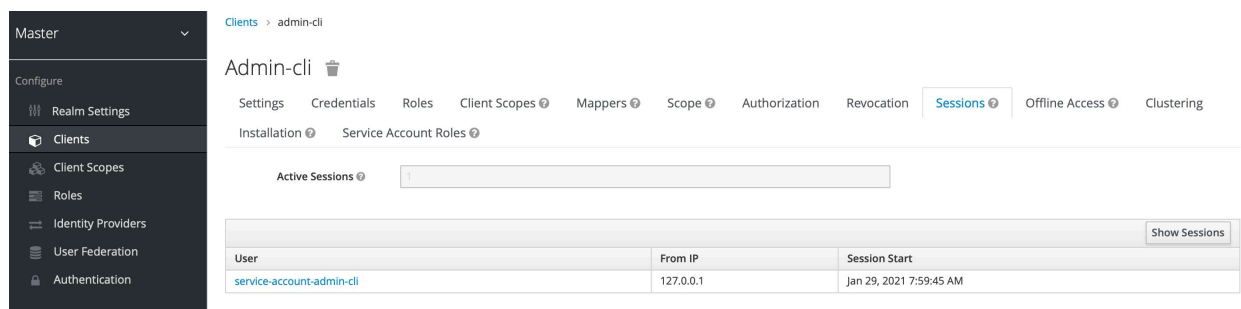
The *admin* user, has already the *admin* role.

Edit: I tried the Password Grant way to obtain the Bearer Token and that worked, but NOT the client secret way. I obviously prefer the client secret way (which is where I'm stuck currently). What could be the issue here?

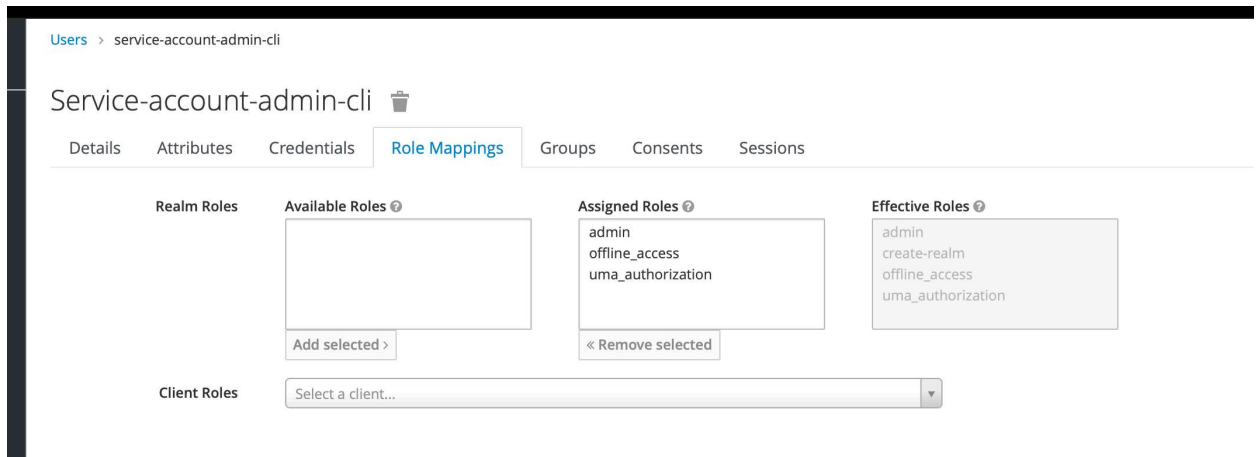
Now if you change the *admin_cli* configuration exactly as you did then you need to add to the *Service-account-admin-cli* user the role *admin*.

Now the problem is that *Service-account-admin-cli* user is *hidden* in the *User* section. Nonetheless, you can do the following:

1. Request again the admin token with your setup;
2. Go to Master Realm > Clients > admin-cli > Session > Click on [Show Session]:



3. click on the user *service-account-admin-cli*;
4. Go to Role Mappings;
5. Assign the *admin* role;



Since the `service-account-admin-cli` user has now the `admin` role, a token request on that user's behalf will contain the necessary privileges to create the users.

If the aforementioned does not work, then do the following go to:

- Realm Master;
- Clients > admin-cli;
- Go to Mappers;
- Click on [Create];
- As Mapper Type select "Hardcoded Role";
- Click on Select Role and selection "admin";
- Click [Save].

Share Edit Follow

edited Feb 5, 2021 at 12:49

answered Jan 29, 2021 at 6:52



[dreamcrash](#)

50.2k ● 26 ● 102 ● 126