

# cannot create user in the keycloak. Getting 403 status

Asked 6 years, 3 months ago   Modified 2 years, 11 months ago   Viewed 23k times



I am trying to access the create a user in the keycloak programmatically. But I am getting 403 as a status code. I am following the below link.

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<https://technology.first8.nl/programmatically-adding-users-in-keycloak/>



Can anyone help me? Thanks In advance



I have using the following code to create user



```
Keycloak kc = Keycloak.getInstance(
    "http://{server name}:8080/auth",
    "{realm name}", // the realm to log in to
    "{username}",
    "{password}", // the user
    "{client id}",
    "{client secret key}");

CredentialRepresentation credential = new CredentialRepresentation();
credential.setType(CredentialRepresentation.PASSWORD);
credential.setValue("test123");
UserRepresentation user = new UserRepresentation();
user.setUsername("codeuser");
user.setFirstName("sampleuser1");
user.setLastName("password");

user.setCredentials(Arrays.asList(credential));
user.setEnabled(true);
Response result = kc.realm("{realm name}").users().create(user);
```

response.status is coming as 403

java

keycloak

keycloak-services

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edited Mar 27, 2018 at 11:37

asked Mar 27, 2018 at 11:22



Programmer

687 ● 4 ● 11 ● 22

4 Answers

Sorted by: Highest score (default)



I faced the same issue. This is how i fixed it.

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## 1. Create a role that has at least a realm-management role of `manage-users`

### Roles

Realm Roles

Default Roles

Search...

Q

Add Role

Role Name	Composite	Description	Actions	
admin-role	True	Admin Role	Edit	Delete
offline_access	False	\$(role_offline-access)	Edit	Delete
uma_authorization	False	\$(role_uma_authorization)	Edit	Delete

### Composite Roles

Realm Roles

Available Roles ?

offline\_access  
uma\_authorization

Add selected >

Associated Roles ?

<< Remove selected

Client Roles

realm-management

Available Roles ?

manage-clients  
manage-identity-providers  
manage-realm  
query-clients  
query-groups  
query-realms

Add selected >

Associated Roles ?

manage-users

< Remove selected

## UI update for server 9.0.2

### Composite Roles

Realm Roles

Available Roles ?

admin  
agent  
customer-support  
developer  
operations

Add selected >

Associated Roles ?

offline\_access  
uma\_authorization

<< Remove selected

Client Roles

realm-management

Available Roles ?

manage-realm  
manage-users  
query-clients  
query-groups  
query-realms

Add selected >

Associated Roles ?

manage-realm  
manage-users  
query-clients  
query-groups  
query-realms

< Remove selected

## 2. Go to your client's `Scope` tab and add the role to your `Realm Roles`

Settings

Credentials

Roles

Client Scopes ?

Mappers ?

Scope ?

Authorization

Revocation

Sessions ?

Offline Access ?

Clustering

Installation ?

Service Account Roles ?

Permissions ?

Approve app Scope Mappings

Full Scope Allowed ?

OFF

Realm Roles

Available Roles ?

offline\_access  
uma\_authorization

Add selected >

Assigned Roles ?

admin-role

<< Remove selected

Effective Roles ?

admin-role

Client Roles

Select client to view roles for client



niinyarko

504 ● 6 ● 12

This works for me with KC server 3.4.0.Final and the same version of admin client; fwiw the Gradle stanza I have is `compile group: 'org.keycloak', name: 'keycloak-admin-client', version: '3.4.0.Final'` – user3456014 Jan 24, 2019 at 9:43

[stackoverflow.com/questions/60359979/...](https://stackoverflow.com/questions/60359979/...) explained better. – Lakmal Vithanage Jul 26, 2022 at 12:39



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I faced the same issue with KeyCloak 9.0.3. What finally worked for me was:

1. Use the admin-cli client with client credentials on the target realm (where I am trying to create the user)

```
curl \
  -d "client_id=admin-cli\"
  -d "client_secret=<YOUR_CLIENT_SECRET>" \
  -d "grant_type=client_credentials" \
  "http://localhost:8080/auth/realms/myrealm/protocol/openid-connect/token"
```

I am not sure why, but using the admin client on the master realm simply did not work for me.

2. Set up the admin-cli client in the target realm with the role as mentioned in the correct answer above.
3. In addition to adding the new role to Scope, I also had to add the role to Service Account Roles.

BTW client credentials access token is not even mentioned as an option in the Admin Rest API docs for Keycloak 9.0.3, but it does work.



crimson\_sails

207 ● 5 ● 9

"I also had to add the role to Service Account Roles" +1 – Paul EDANGE Feb 25, 2022 at 12:20



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If you are not using `admin` user from `master` realm.

You need to assign proper roles like `manage-users` role from `realm-management` client for the user which you are using to get instance the instance of Keycloak.

Client Roles	Available Roles ?	Assigned Roles ?	Effective Roles ?
realm-management	<div>create-client impersonation manage-authorization manage-clients manage-events</div> <div>Add selected »</div>	<div>manage-users</div> <div>&lt;&lt; Remove selected</div>	<div>manage-users</div>

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answered Mar 28, 2018 at 0:14



ravthiru

9,458 ● 2 ● 49 ● 55

I have assigned the roles as shown above still I am getting the status as forbidden – Programmer Mar 28, 2018 at 5:07

Can you find the error message using `ErrorRepresentation` error = `response.readEntity(ErrorRepresentation.class); error.getErrorMessage()` – ravthiru Mar 28, 2018 at 5:31

RESTEASY003145: Unable to find a `MessageBodyReader` of content-type / and type class `org.keycloak.representations.idm.ErrorRepresentation` this exception occurs when I add the above line of code – Programmer Mar 28, 2018 at 5:55

You need to have `resteasy-jackson2-provider` jar in your dependency – ravthiru Apr 3, 2018 at 8:03



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If you use **Service Accounts** to authenticate, you need to add roles of precedent answer in the tab **Service Accounts Roles**

Like below

The screenshot shows the Keycloak Admin Console interface for the 'admin-cli' client. The 'Service Accounts Roles' tab is active. It displays three columns: 'Available Roles', 'Assigned Roles', and 'Effective Roles'. The 'Available Roles' list contains 'banned', 'default-roles-square', 'moderator', and 'user'. The 'Assigned Roles' list shows 'admin' is selected. The 'Effective Roles' list also shows 'admin'. Below the 'Available Roles' list is an 'Add selected >' button. Below the 'Assigned Roles' list is a '< Remove selected' button. At the bottom, there is a 'Client Roles' section with a dropdown menu set to 'Select a client...'.

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answered Aug 16, 2021 at 23:58



ValentinG

186 ● 1 ● 6