

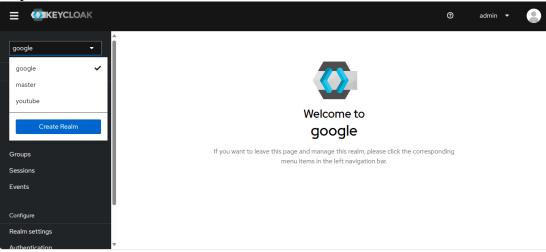
Keycloak 22 Guide by Sakib

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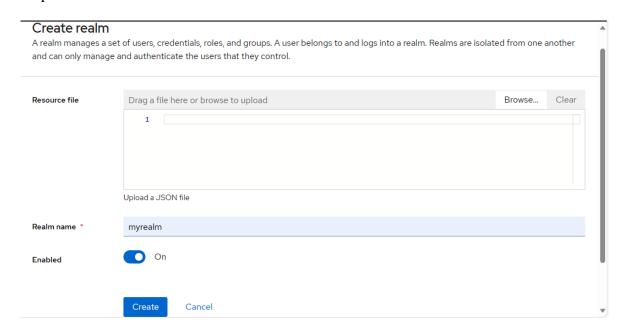
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Create Realm

Step-1

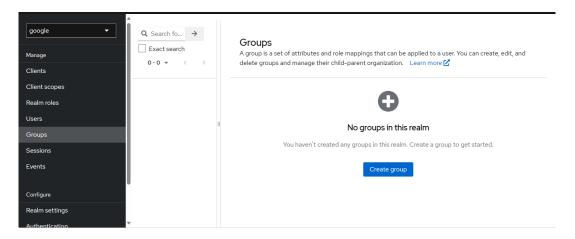


Step-2

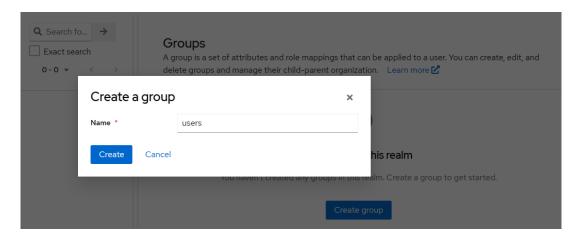


Setup Group and Assign Realm Roles

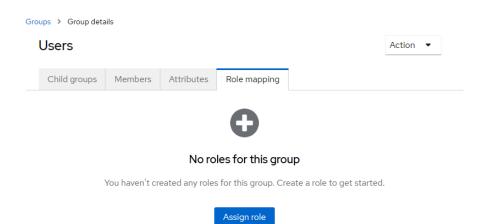
Step:1



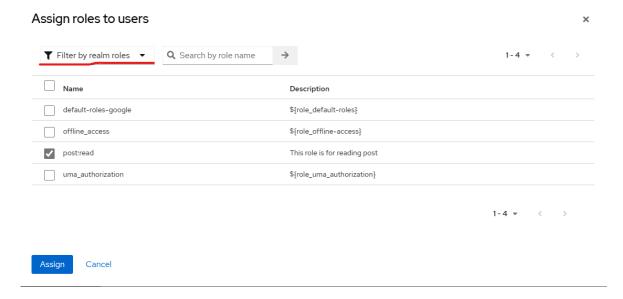
Step:2



Step:3 - Assign roles in group



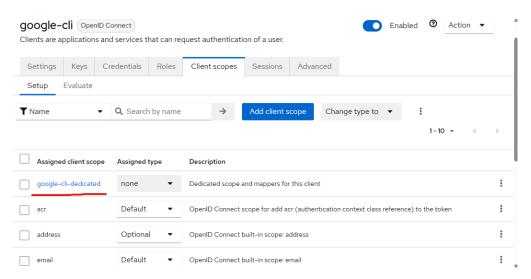
Step:4 – Adding reading post permission for this USERS group



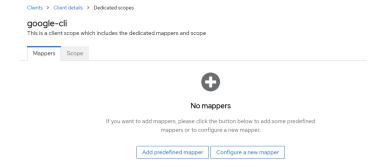
Step:5 – Adding this USERS group in the client

Go to Client>{CLIENT NAME}>Client Scopes

i) Go to the google-cli-dedicated (client scope name will depend on client name)



ii) Click on Configure a new mapper



iii) Click on Group Membership

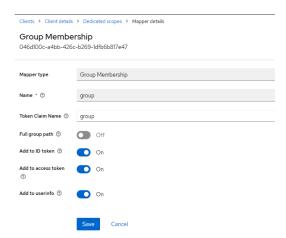
Configure a new mapper

Choose any of the mappings from this table

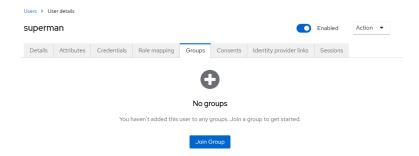
Name	Description
Allowed Web Origins	Adds all allowed web origins to the 'allowed-origins' claim in the token
Audience	Add specified audience to the audience (aud) field of token
Audience Resolve	Adds all client_ids of "allowed" clients to the audience field of the token. Allowed client means the client for which user has at least one client role
Authentication Context Class Reference (ACR)	Maps the achieved LoA (Level of Authentication) to the 'acr' claim of the token
Claims parameter Token	Claims specified by Claims parameter are put into tokens
Claims parameter with value ID Token	Claims specified by Claims parameter with value are put into an ID token.
Group Membership	Map user group membership
Hardcoded claim	Hardcode a claim into the token.

×

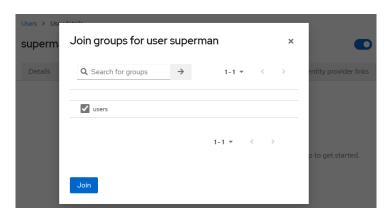
iv) Click on Save



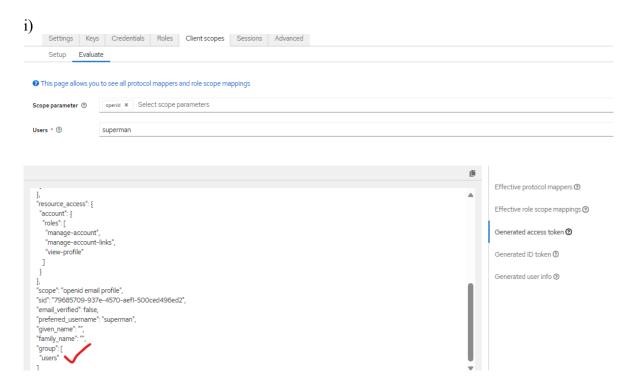
Step-6: Adding user to the group



Add the user to the USERS group. Or we can add the user from group directly.



Step-7 - Let's check that user's access token Go to Client>{CLIENT_NAME}>Client Scopes. Then Evaluate tab



```
session_state: ZZZ54Z5a-CCO9-484C-aCT8-08/a00Ua3DaC,
"allowed-origins": [
"http://localhost:3000"
"realm_access": {
"roles": [
 "default-roles-google",
"offline_access",
"post:read",
 "uma_authorization"
"resource_access": {
"account": {
 "roles": [
  "manage-account", •
  "manage-account-links", •
  "view-profile"•
"scope": "openid email profile",
"sid": "2225425a-cc69-484c-acf8-687a6d0a3bac",
"email_verified": false,
"groups": [
"/users"
],
```

Adding custom property for roles in access token

This can be done by adding a new mapper in client scope

oose any of the mappings from this table	
rose any or the mappings from this table	sha-256 hash. See OpenID Connect specification for
	more info about pairwise subject identifiers.
Role Name Mapper	Map an assigned role to a new name or position in the
	token.
Jser Address	Maps user address attributes (street, locality, region,
	postal_code, and country) to the OpenID Connect
	'address' claim.
Jser Attribute	Map a custom user attribute to a token claim.
Jser Client Role	Map a user client role to a token claim.
Jser Property	Map a built in user property (email, firstName, lastName)
	to a token claim.
Jser Realm Role	Map a user realm role to a token claim.
User Session Note	Map a custom user session note to a token claim.
Jser's full name	Maps the user's first and last name to the OpenID
	Connect 'name' claim. Format is <first> + ' ' + <last></last></first>

Add mapper

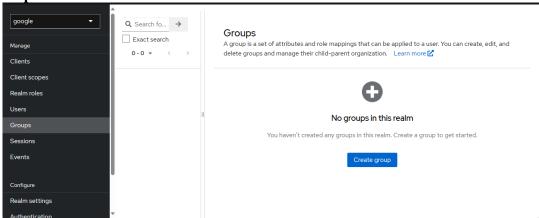
If you want more fine-grain control, you can create protocol mapper on this client



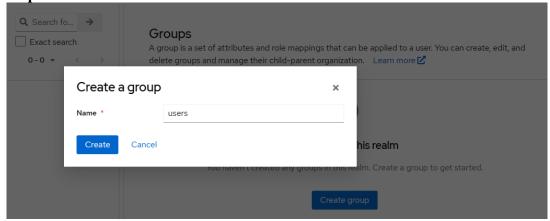


Setup Group and Assign Client Roles

Step:1



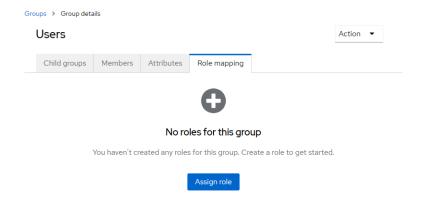
Step:2



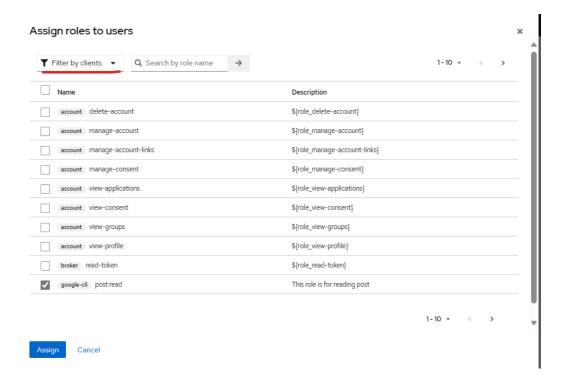
Step:3 – Create Client Role Go to Client>{CLIENT_NAME}>Roles

Create role	
Role name *	postread
Description	This role is reading post
Description	This total to reading post
	Save Cancel

Step:4 - Assign roles in group

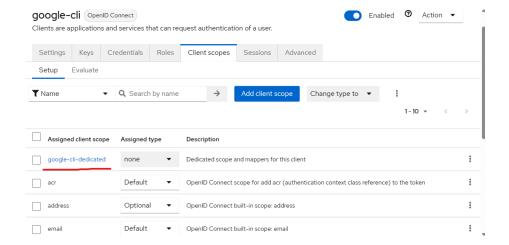


Step:5 – Adding reading post permission for this USERS group

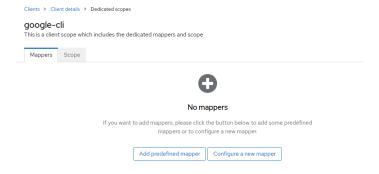


Step:6 – Adding this USERS group in the client

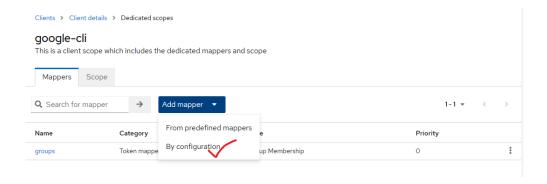
i) Go to Client>{CLIENT_NAME}>Client Scopes



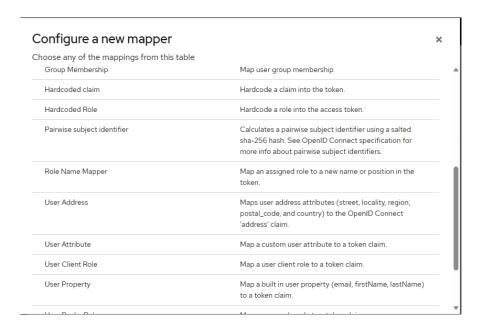
ii) Go to the google-cli-dedicated (client scope name will depend on client name)



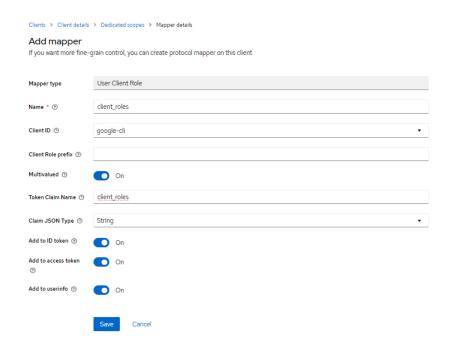
iii) If one MAPPER already exist, click on By configuration



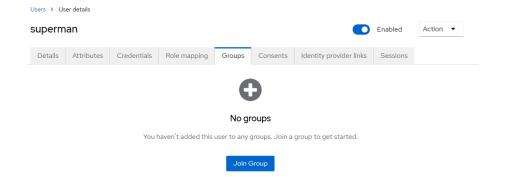
iv) Click on User Client Role



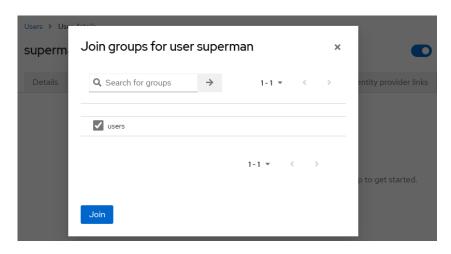
v) Cick on Save



Step-6: Add the user to the USERS group. Or we can add the user from group directly.



Add group



Step-7 - Let's check that user's access token Go to Client>{CLIENT_NAME}>Client Scopes. Then Evaluate Tab

Clients > Client details

Users ¹ ⊕

google-cli OpenID Connect

Clients are applications and services that can request authentication of a user.

Settings	Keys	Credentials	Roles	Client scopes	Sessions	Advanced
Setup	Evaluate					
This page allo	ows you to	see all protoco	mappers	and role scope ma	ppings	
Scope parameter	0	openid X Sele	ct scope p	parameters		

