

# Keycloak

## Client settings

Clients > Client details

oauth2-pkce OpenID Connect

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

Settings Roles Client scopes Sessions Advanced Events

### General settings

Client ID \*

Name

Description

Always display in UI ☐ Off

### Access settings

Root URL

Home URL

Valid redirect URIs  [Add valid redirect URIs](#)

Valid post logout redirect URIs  [Add valid post logout redirect URIs](#)

Web origins  [Add web origins](#)

Admin URL

### Capability config

Client authentication ☐ Off

Authorization ☐ Off

Authentication flow ☒ Standard flow ☒ Direct access grants

☐ Implicit flow ☐ Service accounts roles

☐ Standard Token Exchange

☐ OAuth 2.0 Device Authorization Grant

☐ OIDC CIBA Grant

PKCE Method

Require DPoP bound tokens ☐ Off

Jump to section

- General settings
- Access settings
- Capability config
- Login settings
- Logout settings

- Client ID: ID of client
- Valid redirect URIs: your frontend App
- Web origins: your frontend App
- Standard flow & Direct access grants
- PKCE Method: S256

demoRealm **Current realm**

Manage realms

Manage

Clients

Client scopes

Realm roles

Users

Groups

Sessions

Events

Configure

**Realm settings**

Authentication

Identity providers

User federation

## demoRealm

Realm settings are settings that control the options for users, applications, and other realm-related settings.

General

Login

Email

Themes

Keys

Events

Realm name \*

demoRealm

Display name

HTML Display name

Frontend URL ?

Require SSL ?

External requests

ACR to LoA Mapping

?

No AC  
the bel

User-managed access



Off

?

Organizations ?



Off

Admin Permissions ?



Off

Unmanaged Attributes

Disabled

?

Signature algorithm

Choose...

SAML IdP metadata

?

Endpoints ?

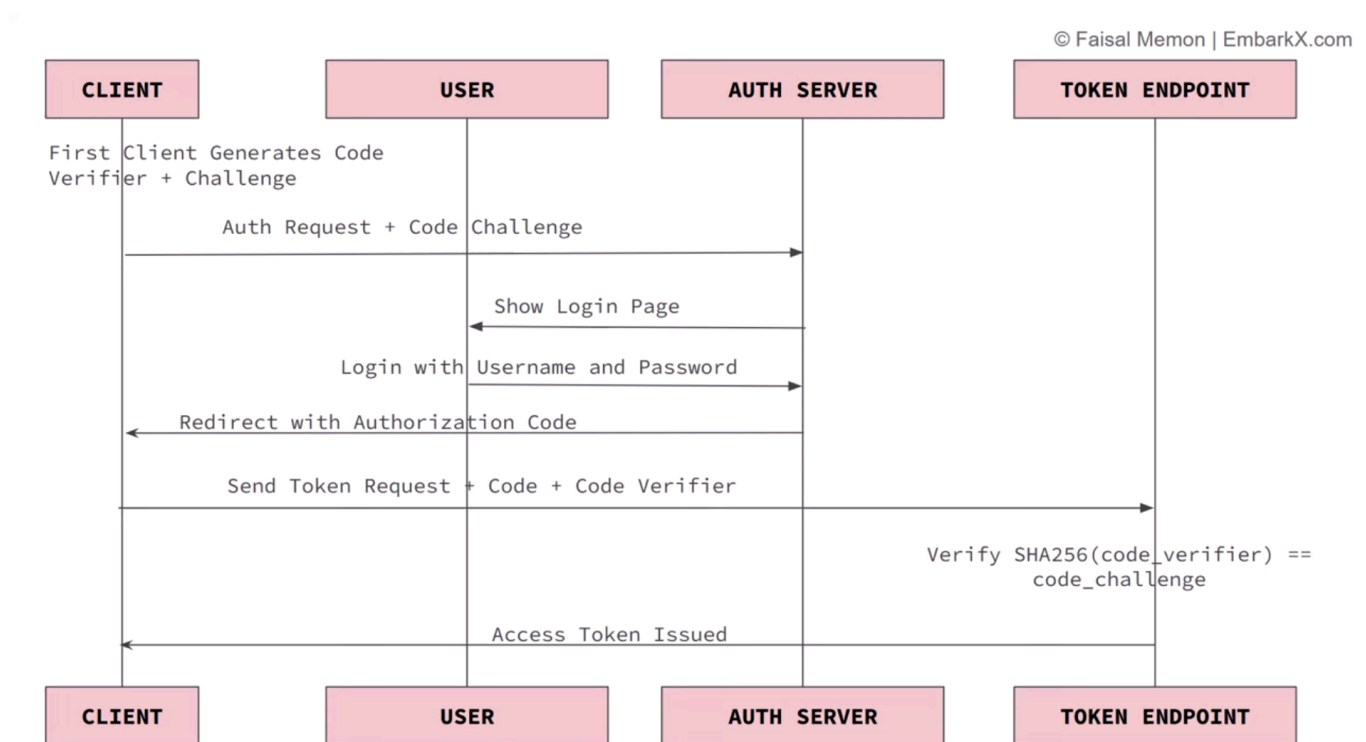
[OpenID Endpoint Configuration](#)

[SAML 2.0 Identity Provider Metadata](#)

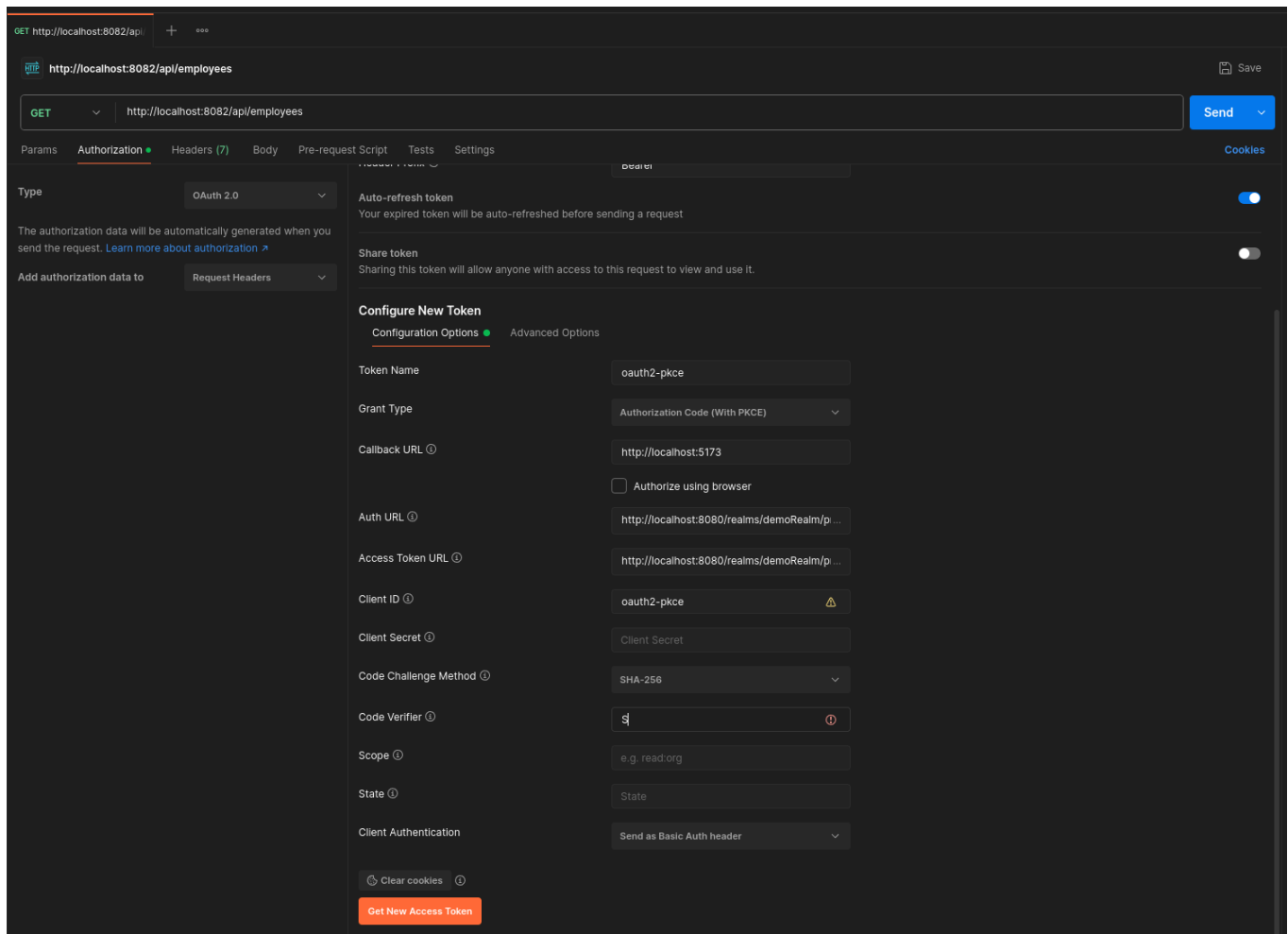
# OpenID Endpoint Configuration

```
{
  "issuer": "http://localhost:8080/realms/demoRealm",
  "authorization_endpoint": "http://localhost:8080/realms/demoRealm/protocol/openid-connect/auth",
  "token_endpoint": "http://localhost:8080/realms/demoRealm/protocol/openid-connect/token",
  "introspection_endpoint": "http://localhost:8080/realms/demoRealm/protocol/openid-connect/token/introspect",
  "userinfo_endpoint": "http://localhost:8080/realms/demoRealm/protocol/openid-connect/userinfo",
  "end_session_endpoint": "http://localhost:8080/realms/demoRealm/protocol/openid-connect/logout",
  "frontchannel_logout_session_supported": true,
  "frontchannel_logout_supported": true,
  "jwks_uri": "http://localhost:8080/realms/demoRealm/protocol/openid-connect/certs",
  "check_session_iframe": "http://localhost:8080/realms/demoRealm/protocol/openid-connect/login-status-iframe.html",
  "grant_types_supported": [
    "authorization_code",
    "client_credentials",
    "implicit",
    "password",
    "refresh_token",
    "urn:ietf:params:oauth:grant-type:device_code",
    "urn:ietf:params:oauth:grant-type:token-exchange",
    "urn:ietf:params:oauth:grant-type:uma-ticket",
    "urn:openid:params:grant-type:ciba"
  ],
  "acr_values_supported": [
```

## PKCE - Flow



## Postman



- Here you need to set up the auth by adding the client and paths and then get the access token.
- After that you should be able to do requests to the java backend and get results back

## JWT.io

JWT Debugger

Paste a JWT below that you'd like to decode, validate, and verify.

Generate example

ENCODED VALUE☐ Enable auto-focus

JSON WEB TOKEN (JWT)

COPYCLEAR

Valid JWTFix public key input errors to verify signature.

```
eyJhbGciOiJSUzI1NiIsInR5cCIgOjoiAaSldUIiwia2lkIAoICJ5THREenJsektQcDNGNmF5NzFyVlNFcGNLT2lwamNoBghnNZMoaIBCMVVvln0_eyJleHAioiE3NJMyOGdONzMsmImLhdCIGMTcmZmZI4ODE3MywiYXV0aF90awWllJoNXyzjmga4MTczLCJqdGkiOiJvbniJOYWwMMUlZTlZTMtYmQyNilMZja3LBHMGUtODU3MmUmUMTNmMTziIIwiaXNzIjoiaHRocDovL2xvYTJsag9zdDo4MDgwL3JlYWxtcy9kZWlvUmVhbG0ILCBjdWQiOiJhY2NvdW50Iiwic3ViIjoiodDNiNTlmM2MtZjQyS090NTc4LTkmXTYtMDLiM2RmYWEyYjBiIiwidHIWIjoiqMVhmVyIiwiYXpwIlfoib2FIdggYLXBryZUiLCJzaWQiOiIIZmzu0ZWyYC03OTU1LTlyINTktMmMSMi0yYmmM4MjFKntC20DgiLCjhY3iiOIIXiWiYwsbs3dlZClvcmlnaW5zIjpbiMH0dHA6Ly9sb2Nhbgvhv c3Q6NTE3MyJkdCLCYZWFSbv9hy2NLc3MiOnsicm9ScXMIOLsiyb2ZmbGluzV9hy2NLc3MilCj kZWZhdkXL3jbGVzLRlbW9yZWFSbSIscInvtYV9hdXRob3JpemF0aw9uill9LCJyZXNvdX JjZV9hy2NLc3MiOnsicYWNjb3Vu dCi6eyJyb2xlcyI6WyJtYW5hZ2U tYWNjb3Vu dCiSmihbmFnZS1hY2NvdW50LWxp bmtzIiwidmlldylwc m9maWxiLil9fSwic2NvcGU iOljlbfPbcBwmcm9maWxi IiwizWIhaWxfdmVyaWZpZW QionRydWUsImShbWUiOljk ZSBtbysIscInByZWZlc nJlZF9lc2VybmfTZSi6Im Rlbw8iLCjnaXZlbn uYWIllJoizGuilC jmwYlpbHlfbm FtZSi6Im lviWiZW1hawwi OljkZWlvQRlbW8u Y29wbSj9_-R-Bny7dzhl wzqI87fb-euvCWlx7ID0e8vw2Ms T4b8a4pp4loGo7 L4ezG5gu2afCGNsMA2 e7NgcfCMLzpPha3 vlsfm06B80qwBX4U05vs 17fdxgnb5GLsaT q7YNCUF _0ksFI BkaALZmjnpJ do42yyAY5MZK zDGmY4j zd-wto-hpnNyQ ylzr8fy9vlXS b_qhRHBI907MeNxOMtAM Hm9JGD3daEgs_06ZF dfgdqixLvPt pwp3vrIqfkUZ_w agsatl WadCz P4wyRe X0jbr3z4Xe7 -ourcgmmGa CJRXJPAX s30vkBYdi bnAc AeLS-0L3Zb6RV zuxy0MJ MGsl
```

DECODED HEADER

JSONCLAIMS TABLE

COPY↗

```
{  
  "alg": "RS256",  
  "typ": "JWT",  
  "kid": "yLtDzrlzKPp3F6ay71rVEpcKOmpjn1hg734jPB1eo"  
}
```

DECODED PAYLOAD

JSONCLAIMS TABLE

COPY↗

```
{  
  "exp": 1763288473,  
  "iat": 1763288173,  
  "auth_time": 1763288173,  
  "iti": "onrtac:2e5e9ee3-bd26-f07-0ae-8572e413f16b",  
  "iss": "http://localhost:8080/realm/demoRealm",  
  "aud": "account",  
  "sub": "83b59f3c-f43a-4578-9116-09b3dfaa2b0c",  
  "typ": "Bearer",  
  "azp": "oauth2-pkce",  
  "sid": "6354ef28-7955-6559-2c92-22c821d57688",  
  "acr": "1",  
  "allowed-origins": [  
    "http://localhost:5173"  
  ],  
  "realm_access": {  
    "roles": [  
      "offline_access",  
      "default-roles-demo realm",  
      "uma_authorization"  
    ]  
  },  
  "resource_access": {  
    "account": {  
      "roles": [  
        "manage-account",  
        "manage-account-links",  
        "view-profile"  
      ]  
    }  
  },  
  "scope": "email profile",  
  "email_verified": true,  
  "name": "demo",  
  "preferred_username": "demo",  
  "given_name": "de",  
  "family_name": "mo",  
  "email": "demo@demo.copm"  
}
```

IWT SIGNATURE VERIFICATION (OPTIONAL)

- Here you can check the contents of the jwt and what fields you can read out.