



Welcome to **Keycloak**



**Administration
Console >**

Centrally manage all aspects of the
Keycloak server



Documentation >

User Guide, Admin REST API and
Javadocs



Keycloak Project >



Mailing List >



Report an issue >



Sign in to your account

Username or email

admin

Password

...

Sign In

KEYCLOAK

Admin

Master

Configure

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User Federation

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Import

Master

GeneralLoginKeysEmailThemesLocalizationCacheTokensClient RegistrationClient Policies

Security Defenses

Name

master

Display name

Keycloak

HTML Display name

<div class="kc-logo-text">Keycloak</div>

Frontend URL

Enabled

ON

User-Managed Access

OFF

Endpoints

OpenID Endpoint Configuration

SAML 2.0 Identity Provider Metadata

Save

Cancel

KEYCLOAK

Master

Add realm

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GeneralLoginKeysEmail

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Upload localization JSON file

Locale

No realm specific loca

locale

KEYCLOAK

Select realm

Add realm

Import

Select file

Name

fullcycle

Enabled

ON

Create

Cancel

KEYCLOAK

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Fullcycle

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Roles

Realm RolesDefault Roles

Search...View all rolesAdd Role

Role Name	Composite	Description	Actions	
default-roles-fullcycle	True	\$(role_default-roles)	Edit	Delete
offline_access	False	\$(role_offline-access)	Edit	Delete
uma_authorization	False	\$(role_uma_authorization)	Edit	Delete

KEYCLOAK

Roles > Add Role

Fullcycle

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Add Role

* Role Namegerente

Description

SaveCancel

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Search...

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View all users

ID	Username	Email	Last m
b13c0e2b-8a75-4dbf...	admin		

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View all users

Unlock users

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No users available

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Users > Add user

Add user

ID

Created At

Username *
user1@user.com

Email
user1@user.com

First Name
User1

Last Name
Last name

User Enabled ?
ON

Email Verified ?
ON

Groups ?
Select existing group...
No group selected

Required User Actions
Select an action

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User1@user.com

Details

Attributes

Credentials

Role Mappings

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Consents

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Manage Credentials

Position	Type	User Label	Data	Actions
----------	------	------------	------	---------

Set Password

Password
..... 123456

Password Confirmation
.....

Temporary ?
OFF

Set Password

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Users > user1@user.com

User1@user.com

DetailsAttributesCredentialsRole MappingsGroupsConsentsSessions

Manage Credentials

Position	Type	User Label	Data	Actions
	password		Show data...	DeleteSave

Reset Password

Password

Password Confirmation

Temporary ☒

Reset Password

Credential Reset

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Users > user1@user.com

User1@user.com

DetailsAttributesCredentialsRole MappingsGroupsConsentsSessions

Realm Roles

Available Roles

Assigned Roles

Effective Roles

Add selected >

< Remove selected

Client Roles

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Clients

Lookup

Client ID	Enabled	Base URL	Actions		
account	True	http://localhost:8080/auth/realms/fullcycle/account/	Edit	Export	Delete
account-console	True	http://localhost:8080/auth/realms/fullcycle/account/	Edit	Export	Delete
admin-cli	True	Not defined	Edit	Export	Delete
broker	True	Not defined	Edit	Export	Delete
realm-management	True	Not defined	Edit	Export	Delete
security-admin-console	True	http://localhost:8080/auth/admin/fullcycle/console/	Edit	Export	Delete

KEYCLOAK

Clients > Add Client

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Add Client

Import

Client ID *

Client Protocol

Root URL

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Sessions

Offline Access

Installation

Client IDnest

Name

Description

EnabledON

Always Display in ConsoleOFF

Consent RequiredOFF

Login Theme

Client Protocolopenid-connect

Access Typeconfidential

Standard Flow EnabledON

Implicit Flow EnabledOFF

KEYCLOAK

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Client AuthenticatorClient Id and Sec

Secretaf8d-2be8-4850-95cc-ec19c0be2752

Regenerate Secret

Registration access token

Regenerate registration access token


```
auth.service.ts X
nest > src > auth > auth > auth.service.ts > AuthService
1 import { HttpService } from '@nestjs/axios';
2 import { Injectable } from '@nestjs/common';
3 import { firstValueFrom } from 'rxjs';
4
5 @Injectable()
6 export class AuthService {
7
8   constructor(private http: HttpService) {}
9
10  async login(username:string, password:string){
11    const {data} = await firstValueFrom(
12      //this.http.post('http://localhost:8080/auth/realms/fullcycle/protocol/openid-connect/token',
13      this.http.post('http://host.docker.internal:8080/auth/realms/fullcycle/protocol/openid-connect/token',
14      new URLSearchParams({
15        client_id: 'nest',
16        client_secret: 'ff73aba4-a676-490b-ab6f-a49b6f6ea171',
17        grant_type: 'password',
18        username,
19        password
20      })),
21    ),
22  );
23  return data;
24  }
25
26
```

KEYCLOAK Admin

Fullcycle

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General Login Keys Email Themes Localization Cache Tokens Client Registration Client Policies

Security Defenses

Active Passive Disabled Providers

Algorithm	Type	Kid	Use	Priority	Provider	Public keys
AES	OCT	cd742864-de23-41f6-9231-53179b769c04	ENC	100	aes-generated	
RS256	RSA	XpniBzU/lkQ2jKOs4HsyFkArbI4e0HcGIC4JL_t381KU	SIG	100	rsa-generated	Public key Certificate
HS256	OCT	2c88615b-a902-40b0-8de0-c5c09b763834	SIG	100	hmac-generated	
RS256	RSA	FUKomXIHYi-bR-r6W3CbWUaQVgTgigALE3umjKu437g	ENC	100	rsa-enc-generated	Public key Certificate

```
auth.service.ts jwt-strategy.service.ts .env X
nest > .env
1 DB_CONNECTION=mysql
2 DB_HOST=db
3 DB_USERNAME=root
4 DB_PASSWORD=root
5 DB_DATABASE=fin
6 DB_PORT=3306
7
8 JWT_SECRET="-----BEGIN PUBLIC KEY-----\nMIIBIjANBgkqhkiG9w0BAQEFAAOCAQ8AMIIBCgKCAQEA1w5FhqrEgV1mMlK2YnBNybtJxGyafKssAJQhbZVA3iSdHbM
```

KEYCLOAK

Select realm ▾

Add realm

Import

Name *

Enabled ☒

Add realm

Import

Name *

Enabled ☒

KEYCLOAK

Success! Your changes have been saved to the user. ✕

Admin ▾

Fullcycle ▾

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Users > user1@user.com

User1@user.com

Details Attributes Credentials Role Mappings Groups Consents Sessions

Key	Value	Actions
subdomain	tenant1	Delete
<input type="text"/>	<input type="text"/>	Add

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Create

Add Built-in

No mappers available

Create Protocol Mapper

Protocol ?	<input type="text" value="openid-connect"/>
Name ?	<input type="text" value="subdomain"/>
Mapper Type ?	<input type="text" value="User Attribute"/> ▼
User Attribute ?	<input type="text" value="subdomain"/>
Token Claim Name ?	<input type="text" value="subdomain"/>
Claim JSON Type ?	<input type="text" value="String"/> ▼
Add to ID token ?	<input checked="" type="checkbox"/> ON
Add to access token ?	<input checked="" type="checkbox"/> ON
Add to userinfo ?	<input checked="" type="checkbox"/> ON
Multivalued ?	<input type="checkbox"/> OFF
Aggregate attribute values ?	<input type="checkbox"/> OFF
<input type="button" value="Save"/> <input type="button" value="Cancel"/>	