

Keycloak Integration

```
docker run -d
--name keycloak
-p 8080:8080
-e KEYCLOAK_ADMIN=admin
-e KEYCLOAK_ADMIN_PASSWORD=admin
quay.io/keycloak/keycloak:latest
start-dev
```

Access the admin console at <http://localhost:8080> and log in with `admin/admin`.

Create a Realm

- Hover over "master" in the top-left → "Create Realm"
- Give it a name, e.g. `company` — this becomes your `<realm>` placeholder

Create a Client

- Go to Clients → Create client
- Client ID: e.g. `spring-boot-app`
- Client authentication: **ON** (this gives you a client secret)
- Authorization: ON (optional)
- Valid redirect URIs: `http://localhost:*`
- Save → go to **Credentials** tab to copy the **client secret**

[Clients](#) > Create client

Create client

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

1 General settings

2 Capability config

3 **Login settings**

Root URL ⓘ

http://localhost:8081

Home URL ⓘ

http://localhost:8081

Valid redirect URIs ⓘ

http://localhost:8081/login/oauth2/code/*

+ Add valid redirect URIs

Valid post logout redirect URIs ⓘ

http://localhost:8081

+ Add valid post logout redirect URIs

Web origins ⓘ

+

+ Add web origins

Back

Save

Cancel

Keycloak has generated the secret after saving:

[Clients](#) > Client details

spring-boot-app

OpenID Connect

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

Settings

Keys

Credentials

Roles

Client scopes

Authorization

Service account roles

Sessions

Advanced

Events

Client Authenticator ⓘ

Client Id and Secret ▼

Save

Client Secret

.....

👁️ 📋

Regenerate

Registration access token ⓘ

📋

Regenerate

Copy the **Client Secret** value and ensure it is in your project's properties:
spring.security.oauth2.client.registration.keycloak.client-secret=YOUR_COPIED_SECRET

Creating User:

company

Current realm

Manage realms

Manage

Clients

Client scopes

Realm roles

Users

Groups

Sessions

Events

Configure

Realm settings

Authentication

Identity providers

User federation

Users > User details

testuser

Details

Credentials

Role mapping

Groups

Consents

Identity provider links

Sessions

Events

ID *

67656c18-bd1d-484b-bad2-3f5179b47eb7

Created at *

2/20/2026, 8:55:10 PM

Required user actions

Select action

X

Email verified ⓘ

☒ On

General

Jump to section

General

Username *

testuser

Email

test@company.com

First name

test

Last name

user

Save

Revert

Once created, set the password

Create the Realm Role, such as user, admin, etc. and then add them to the user in role-mapping