# Inhaltsverzeichnis

1Docker setup	2
2Test JWT access	<i>6</i>

## 1 Docker setup

- Clone from git@github.com:GilbertHofstaetter/spring-boot-oauth2-resource-server-client-vaadin.git
- Add 127.0.0.1 keycloak to your hosts file
  - Linux/Max /etc/hosts
  - Windows 10 c:\Windows\System32\Drivers\etc\hosts

```
127.0.0.1 keycloak
```

Change to directory to project root directory

```
spring-boot-oauth2-resource-server-client-vaadin %
```

Run docker-compose -f docker-compose-bitnami-custom.yml up

spring-boot-oauth2-resource-server-client-vaadin % docker-compose -f docker-compose-bitnami-custom.yml up

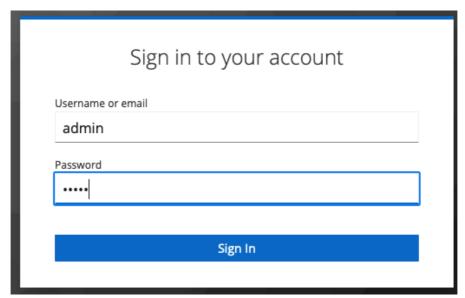
- Postgres, keycloak and springboot-microservice are starting → keycloak imports Demo-Realm from file ./realms/Demo-Realm-realm.json
- springboot-microservice fails on startup (Docker Desktop) → don't mind



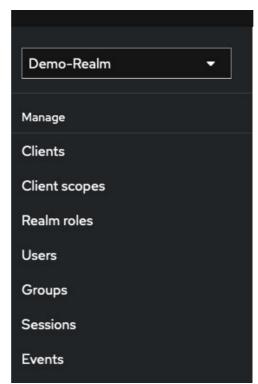
Restart springboot-microservice-vaadin-1

```
2022-11-14 07:07:43.924 INTO 16 -- [ main] 0.0Auth2ResourceServerClientApplication : Starting OAuth2ResourceServerClientApplication v1.0-SNAPSHOT using Java 1 7.0.5 on 5f1f940a4104 with PID 16 (/App/target/spring-boot-cauth2-resource-server-client-1.0-SNAPSHOT, is started by root in /app/target) 2022-11-14 07:07:43.924 INTO 16 -- [ main] 0.0Auth2ResourceServerClientApplication : No control of the profile set, falling back to 1 default profile: 'default' 2022-11-14 07:07:43.924 INTO 16 -- [ main] s.d.r.c.RepositoryConfigurationDelegate : Bootstrapping Spring Data JPA repositories in DEFAULT mode. 2022-11-14 07:07:45.980 INTO 16 -- [ main] o.s.b.w.embedded.tomeat.TomeatWebServer : Tomeat initialized with port(sp: 8000 (http) 2022-11-14 07:07:47.052 INTO 16 -- [ main] o.s.b.w.embedded.tomeat.TomeatWebServer : Tomeat initialized with port(sp: 8000 (http) 2022-11-14 07:07:47.052 INTO 16 -- [ main] o.s.c.c.C.C.Tomeat[.](localbox1].[/] : Starting service [Tomeat] 2022-11-14 07:07:47.053 INTO 16 -- [ main] o.s.c.c.C.TomeatWebServer plicationContext: Initializing Spring bendedd webbplicationContext = 100:07:47.054 INTO 16 -- [ main] o.s.c.c.C.TomeatWebServer plicationContext: Initializing Spring bendedd webbplicationContext = 100:07:47.054 INTO 16 -- [ main] o.s.c.c.C.TomeatWebServer plicationContext: Initializing Spring bendedded webbplicationContext = 100:07:47.054 INTO 16 -- [ main] o.s.c.c.c.TomeatWebServer = 100:07:47.054 INTO 16 -- [ main] o.s.c.c.c.TomeatWebServer = 100:07:47.054 INTO 16 -- [ main] o.s.c.c.c.c.TomeatWebServer = 100:07:47.054 INTO 16 -- [ main] o.s.c.c.c.c.TomeatWe
```

- springboot-microservice-vaadin is up and running
- keycloak has imported Demo-Realm-realm.json at startup → Realm, springbootmicroservice, scope read, Userroles (app-user, app-admin, admin, user) are now present
- Create 3 Users through keycloak admin console → localhost:8091
- · User: admin, Pwd: admin

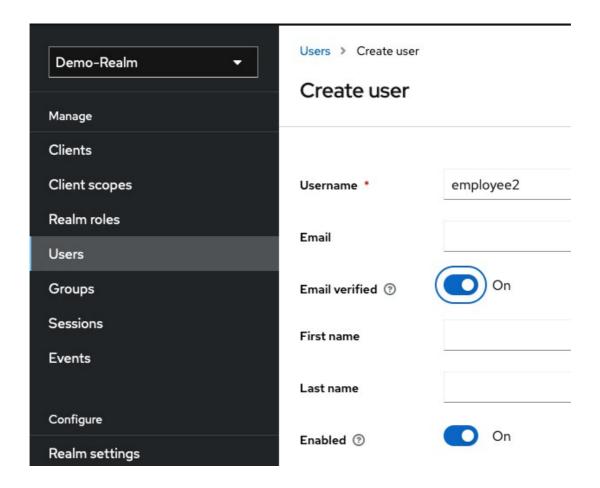


• Open realm "Demo-Realm"



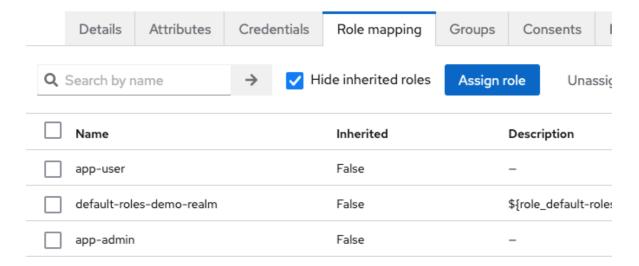
#### Create 3 Users

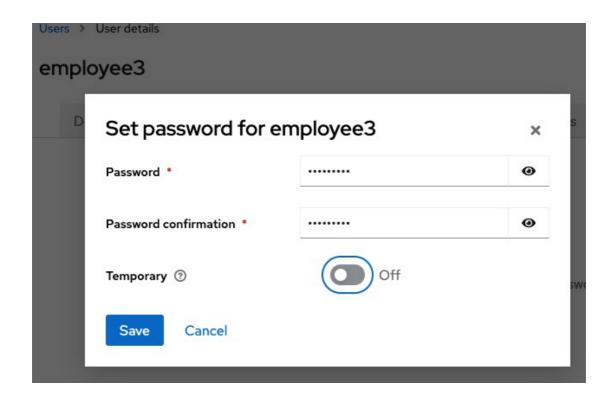
- employee1 → Assign Role app-user, set Email verified to on, set credential switch "Temporary" to off
- employee2 → Assign Role app-admin, set Email verified to on, set credential switch "Temporary" to off
- $\circ \;$  employee3  $\rightarrow$  Assign Role app-user, app-admin, set Email verified to on, set credential switch "Temporary" to off



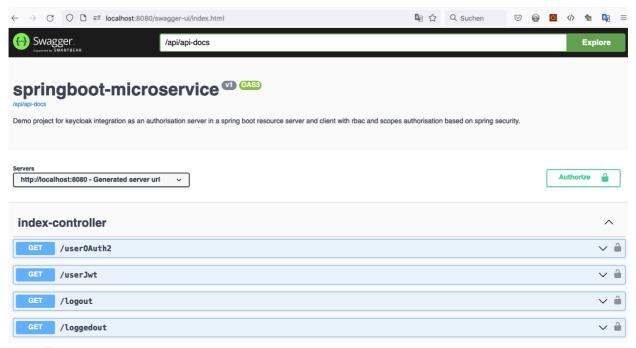
Users > User details

## employee3





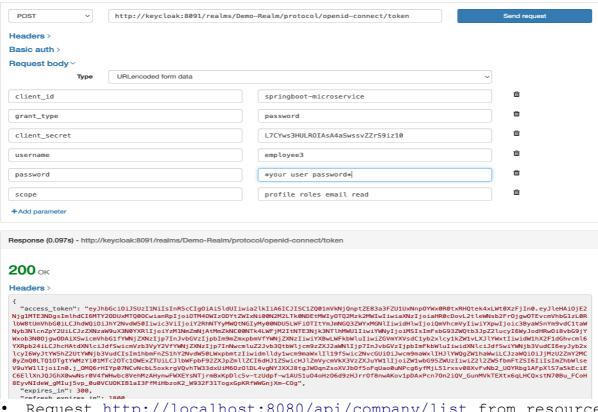
- Open <a href="http://localhost:8080/swagger-ui.html">http://localhost:8080/swagger-ui.html</a>
- Sign in with employee3



- Try out
  - http://localhost:8080/api/customer/list
  - http://localhost:8080/api/employee/list
  - http://localhost:8080/userJwt
  - <a href="http://localhost:8080/userOAuth2">http://localhost:8080/userOAuth2</a>
  - http://localhost:8080/logout

### 2 Test JWT access

- With Docker the Keycloak host changed from localhost to "keycloak"
- Use <a href="http://keycloak:8091/realms/Demo-Realm/protocol/openid-connect/token">http://keycloak:8091/realms/Demo-Realm/protocol/openid-connect/token</a> to request an access token from Keycloak. A request with host localhost:8091 delivers an invalid token



Request <a href="http://localhost:8080/api/company/list">http://localhost:8080/api/company/list</a> from resource server

GET ~	http://localhost:8080/api/company/list	Send request
Headers ~		
Authorization	u0VCUOKIB1aI3FfMiHbzoK2_W932F31TogxGpKRfWWGnjXm-C0g	Û
+Add header		
Basic auth >		

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