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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

<input type="checkbox"/>		spring-boot-oauth2-resource-server-client -	Running (2/3)		
<input type="checkbox"/>		keycloak-1 ee69c8ed4cfb	bitnami/keycloak:latest	Running	8091:8091 19 seconds ago
<input type="checkbox"/>		postgresql-1 43059b50063c	bitnami/postgresql:latest	Running	20 seconds ago
<input type="checkbox"/>		springboot-microservice-vaadin-1 f5c2ce5da248	springboot-microservice-vaadin:latest	Exited (137)	8080:8080

- Restart springboot-microservice-vaadin-1

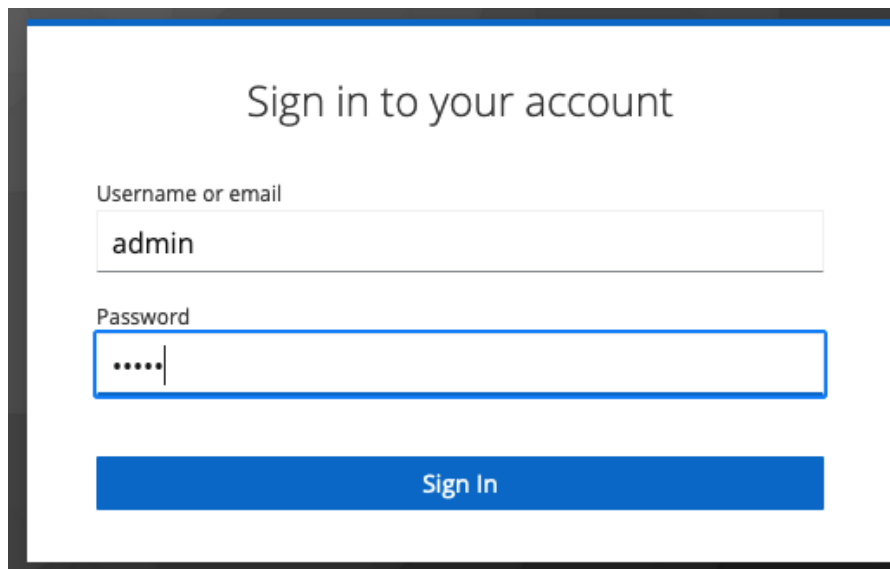
```

  ____  __
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/ /   / __/ / / /
/_/   /___/_/_/

:: Spring Boot ::
               (v2.7.5)

2022-11-14 07:07:43.914 INFO 16 --- [main] .O.OAuth2ResourceServerClientApplication : Starting OAuth2ResourceServerClientApplication v1.0-SNAPSHOT using Java 1
7.0.5 on 5f1f940a4104 with PID 16 (/app/target/spring-boot-oauth2-resource-server-client-1.0-SNAPSHOT.jar started by root in /app/target)
2022-11-14 07:07:43.924 INFO 16 --- [main] .O.OAuth2ResourceServerClientApplication : No active profile set, falling back to 1 default profile: "default"
2022-11-14 07:07:43.878 INFO 16 --- [main] .s.d.r.c.RepositoryConfigurationDelegate : Bootstrapping Spring Data JPA repositories in DEFAULT mode.
2022-11-14 07:07:45.980 INFO 16 --- [main] .s.d.r.c.RepositoryConfigurationDelegate : Finished Spring Data repository scanning in 84 ms. Found 2 JPA repository
interfaces.
2022-11-14 07:07:47.052 INFO 16 --- [main] o.s.b.w.embedded.tomcat.TomcatWebServer : Tomcat initialized with port(s): 8080 (http)
2022-11-14 07:07:47.074 INFO 16 --- [main] o.apache.catalina.core.StandardService : Starting service [Tomcat]
2022-11-14 07:07:47.075 INFO 16 --- [main] org.apache.catalina.core.StandardEngine : Starting Servlet engine: [Apache Tomcat/9.0.68]
2022-11-14 07:07:47.218 INFO 16 --- [main] o.a.c.c.C.[Tomcat].[localhost].[/] : Initializing Spring embedded WebApplicationContext
2022-11-14 07:07:47.218 INFO 16 --- [main] w.s.c.ServletWebServerApplicationContext : Root WebApplicationContext: initialization completed in 3119 ms
2022-11-14 07:07:47.546 INFO 16 --- [main] com.zaxxer.hikari.HikariDataSource : HikariPool-1 - Starting...
2022-11-14 07:07:47.851 INFO 16 --- [main] com.zaxxer.hikari.HikariDataSource : HikariPool-1 - Start completed.
2022-11-14 07:07:47.925 INFO 16 --- [main] o.hibernate.jpa.internal.util.LogHelper : HHH000204: Processing PersistenceUnitInfo [name: default]
2022-11-14 07:07:48.009 INFO 16 --- [main] org.hibernate.Version : HHH0000412: Hibernate ORM core version 5.6.12.Final
2022-11-14 07:07:48.561 INFO 16 --- [main] o.hibernate.annotations.common.Version : HCANN000001: Hibernate Commons Annotations (5.1.2.Final)
2022-11-14 07:07:48.759 INFO 16 --- [main] org.hibernate.dialect.Dialect : HHH000400: Using dialect: org.hibernate.dialect.H2Dialect
2022-11-14 07:07:49.612 INFO 16 --- [main] o.h.e.t.j.p.i.JtaPlatformInitiator : HHH000490: Using JtaPlatform implementation: [org.hibernate.engine.transa
ction.jta.platform.internal.NoJtaPlatform]
2022-11-14 07:07:49.626 INFO 16 --- [main] j.LocalContainerEntityManagerFactoryBean : Initialized JPA EntityManagerFactory for persistence unit 'default'
2022-11-14 07:07:52.340 WARN 16 --- [main] JpaBaseConfiguration$JpaWebConfiguration : spring.jpa.open-in-view is enabled by default. Therefore, database querie
s may be performed during view rendering. Explicitly configure spring.jpa.open-in-view to disable this warning
2022-11-14 07:07:53.475 INFO 16 --- [main] o.s.s.web.DefaultSecurityFilterChain : Will secure any request with [org.springframework.security.web.session.Di
sableEncodeUrlFilter#64920dc2, org.springframework.security.web.context.request.async.WebAsyncManagerIntegrationFilter#859a79443, org.springframework.security.web.context.S
ecurityContextPersistenceFilter#df53053, org.springframework.security.web.header.HeaderWriterFilter#71c17a57, org.springframework.security.web.filter.CorsFilter#493ac8d3, org.sprin
gframework.security.web.csrf.CsrfFilter#4601203a, org.springframework.security.web.authentication.logout.LogoutFilter#5c723f2d, org.springframework.security.oauth2.client.
web.OAuth2AuthorizationRequestRedirectFilter#41da3aee, org.springframework.security.oauth2.client.web.OAuth2LoginAuthenticationFilter#5dc0ff7d, org.springframework.securit
y.web.authentication.ui.DefaultLoginPageGeneratingFilter#527fc8e, org.springframework.security.web.authentication.ui.DefaultLogoutPageGeneratingFilter#13dbed9e, org.sprin
gframework.security.oauth2.server.resource.web.BearerTokenAuthenticationFilter#5d1e0ffb, org.springframework.security.web.savedrequest.RequestCacheAwareFilter#707bla44, org
.springframework.security.web.servletapi.SecurityContextHolderAwareRequestFilter#7132a9dc, org.springframework.security.web.authentication.AnonymousAuthenticationFilter#67
531e3a, org.springframework.security.web.session.SessionManagementFilter#1e0a864d, org.springframework.security.web.access.ExceptionTranslationFilter#60b34931, org.springf
ramework.security.web.access.intercept.FilterSecurityInterceptor#f69893c]
2022-11-14 07:07:54.338 INFO 16 --- [main] o.s.b.w.embedded.tomcat.TomcatWebServer : Tomcat started on port(s): 8080 (http) with context path ''
2022-11-14 07:07:54.371 INFO 16 --- [main] .O.OAuth2ResourceServerClientApplication : Started OAuth2ResourceServerClientApplication in 11.42 seconds (JVM runni
ng for 12.252s)
```

- springboot-microservice-vaadin is up and running
- keycloak has imported Demo-Realm-realm.json at startup → Realm, springboot-microservice, 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



Sign in to your account

Username or email

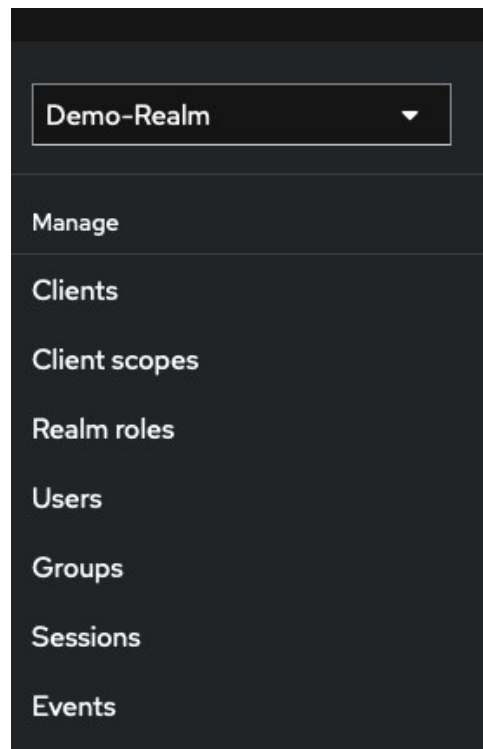
admin

Password

.....

Sign In

- 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
 - employee3 → Assign Role app-user, app-admin, set Email verified to on, set credential switch „Temporary“ to off

Demo-Realm

Manage

Clients

Client scopes

Realm roles

Users

Groups

Sessions

Events

Configure

Realm settings

Users > Create user

Create user

Username *

employee2

Email

Email verified ?

On

First name

Last name

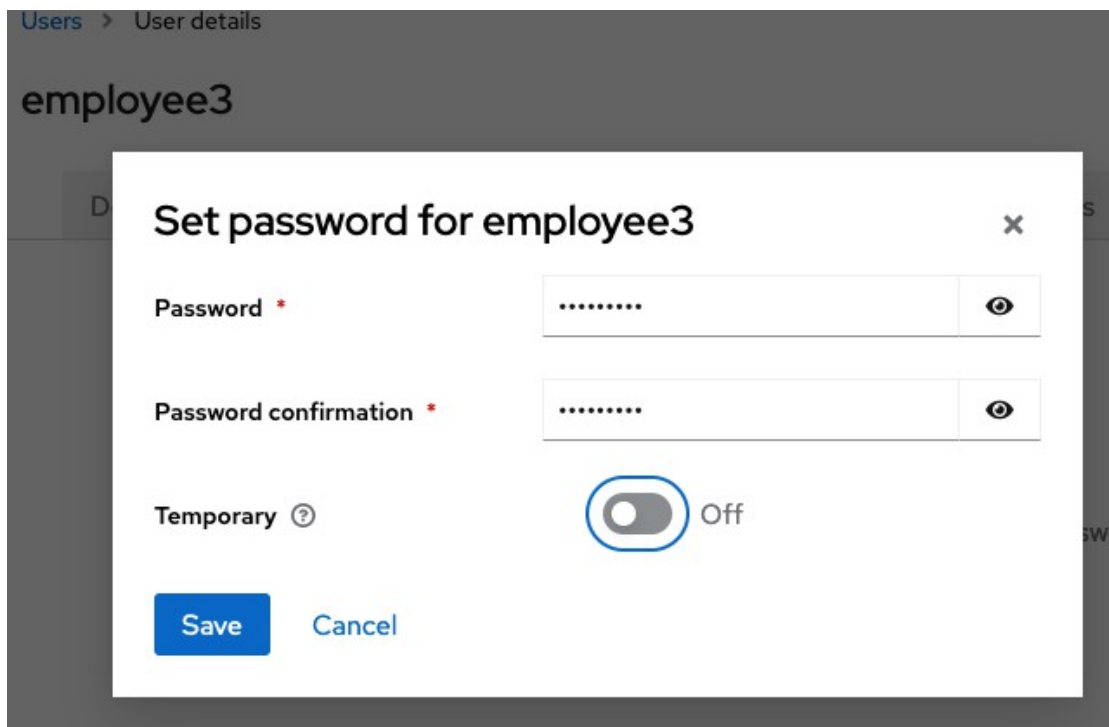
Enabled ?

On

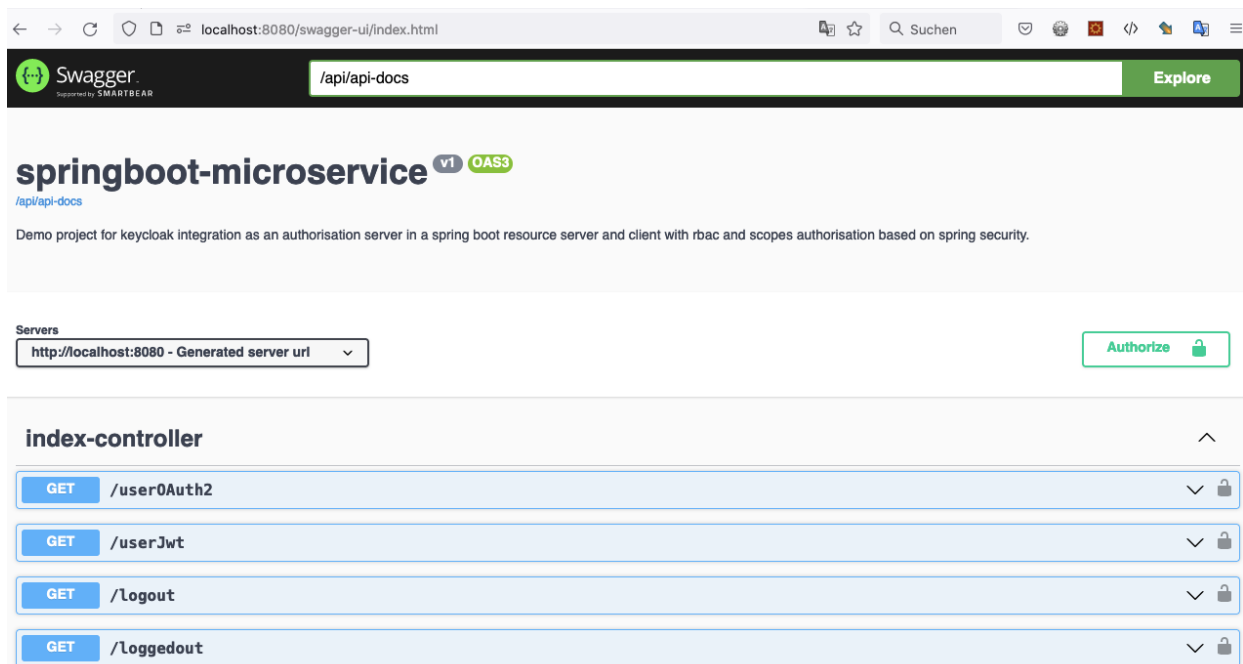
Users > User details

employee3

Details	Attributes	Credentials	Role mapping	Groups	Consents	
<div><div>Q Search by name</div><div>→</div></div>		<div><input checked="" type="checkbox"/> Hide inherited roles</div>	<div>Assign role</div>	<div>Unassign</div>		
<input type="checkbox"/>	Name	Inherited	Description			
<input type="checkbox"/>	app-user	False	–			
<input type="checkbox"/>	default-roles-demo-realm	False	`\${role_default-role:			
<input type="checkbox"/>	app-admin	False	–			



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



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