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### 1 Docker setup

- Clone from <a href="mailto:git@github.com">git@github.com</a>:GilbertHofstaetter/spring-boot-oauth2-resource-server-client.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
```

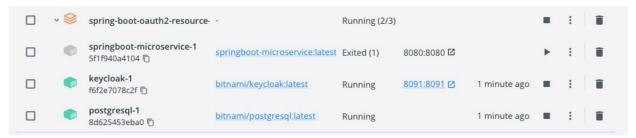
Change to directory to project root directory

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

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

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

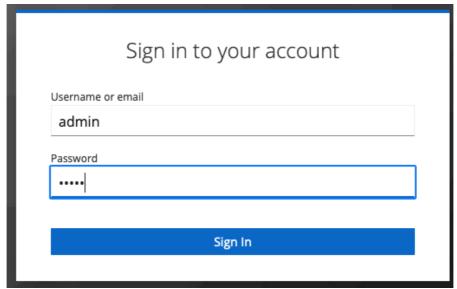


Restart springboot-microservice-1

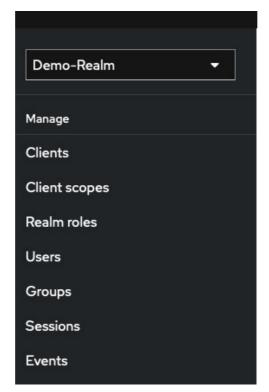
```
2022-11-14 07:07:43.314 NNO 15 --- [ main] .0.0Auth2ResourceServerClientApplication : Starting OAuth2ResourceServerClientApplication v1.0-SNAPSHOT using Java 1 7.0.5 on 5fif$40a4104 with PID 16 (/App/target/spring-boot-oauth2-resource-server-client-1.0-SNAPSHOT, jar started by root in /app/target) 2022-11-14 07:07:43.32 NNO 16 --- [ main] .0.0Auth2ResourceServerClientApplication : No control of the provided of
```

- springboot-microservice 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

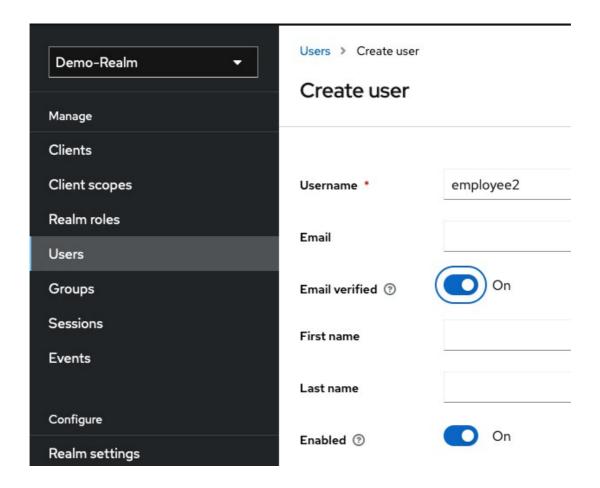


• Open realm "Demo-Realm"



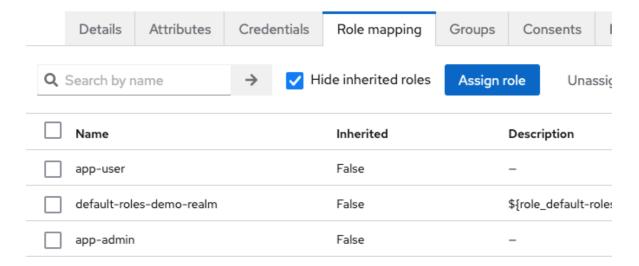
#### Create 3 Users

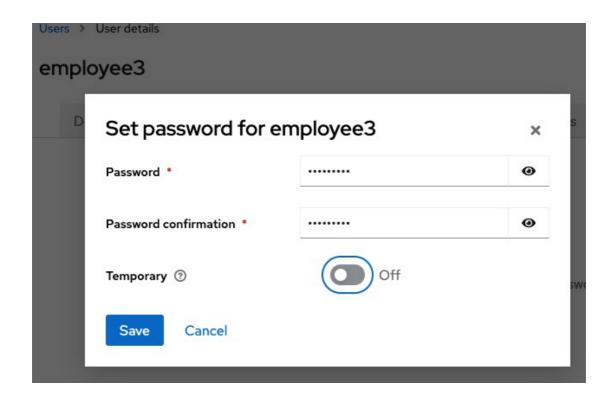
- employee1 → Assign Role app-user, set Email verified to on, set credential switch "Temporary" to off
- employee2 → Assign Role app-admin, set Email verified to on, set credential switch "Temporary" to off
- employee3 → Assign Role app-user, app-admin, set Email verified to on, set credential switch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



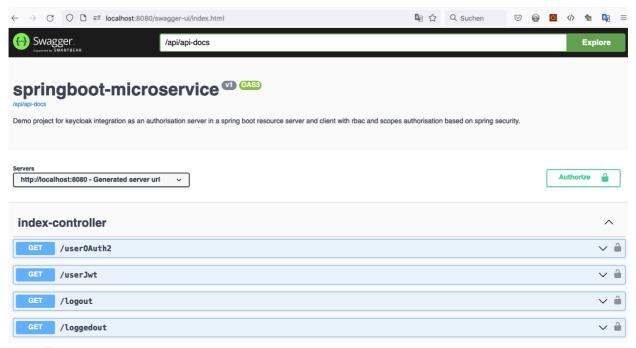
Users > User details

## employee3





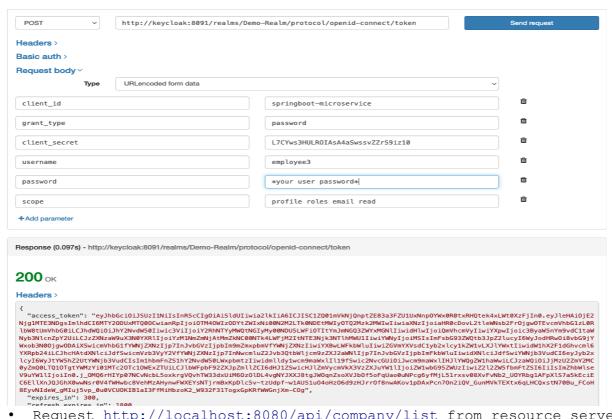
- Open <a href="http://localhost:8080/swagger-ui.html">http://localhost:8080/swagger-ui.html</a>
- Sign in with employee3



- 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

### Test JWT access

- With Docker the Keycloak host changed from localhost to "keycloak"
- Use <a href="http://keycloak:8091/realms/Demo-Realm/protocol/openid-">http://keycloak:8091/realms/Demo-Realm/protocol/openid-</a> connect/token 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 v http://local	nost:8080/api/company/list Send request
Headers >	
Authorization	u0VCU0KIB1aI3FfMiHbzoK2_W932F31TogxGpKRfWWGnjXm−C0g
+Add header	
Basic auth >	
Response (0.051s) - http://localhost:8080/api	company/list
200	
leaders >	
Į.	
"id": 4,	

```
"employees": [
        "firstName": "Max1",
       "lastName": "Mustermann1",
"email": "m1.m1@company.com",
"birthDate": "2022-11-15T09:39:39.359+00:00"
       io: 3,
"firstName": "Max2",
"lastName": "Mustermann2",
"email": "72.m2(company.com",
"birthDate": "2022-11-15T09:39:39.362+00:00"
       "id": 1,
"firstName": "Max0",
"lastName": "Mustermann0",
"email": "m0.m0@company.com",
        "birthDate": "2022-11-15T09:39:39.237+00:00"
```