

Connection refused when connecting to keycloak container from backend container

Asked 3 years, 7 months ago Modified 3 years, 7 months ago Viewed 13k times



I have two containers backend (spring boot application) and Keycloak. if I run keycloak in a container and backend locally : it works

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If both of them are run in container the backend doesn't start and shows the following error :



```
Failed to instantiate [org.springframework.security.oauth2.jwt.JwtDecoder]:
Factory method 'jwtDecoderByIssuerUri' threw exception; nested exception is
java.lang.IllegalArgumentException: Unable to resolve the Configuration with the
provided Issuer of "http://keycloak:8082/auth/realms/myrealm"
```

```
Caused by: org.springframework.web.client.ResourceAccessException: I/O error on
GET request for "http://keycloak:8082/auth/realms/myrealm/.well-known/openid-
configuration": Connection refused (Connection refused);
```

following are my configs :

docker-compose :

```
services:

  keycloak:
    image: jboss/keycloak:8.0.1
    command:
      - "-b 0.0.0.0"
    container_name: "keycloak"
    networks:
      - myproject
    volumes:
      - "./keycloak/realm-export.json:/opt/jboss/keycloak/bin/keycloak_export_dir/realm-export.json"
    environment:
      KEYCLOAK_USER: admin
      KEYCLOAK_PASSWORD: admin
      KEYCLOAK_IMPORT: /opt/jboss/keycloak/bin/keycloak_export_dir/realm-export.json
    ports:
      - "8082:8080"

  backend:
    build:
      context: ./backend
      dockerfile: Dockerfile
    container_name: "backend"
    environment:
      - spring.oauth2.resourceserver.jwt.issuer-uri=http://keycloak:8082/auth/realms/myrealm
    links:
      - keycloak
    networks:
      - myproject
    restart: on-failure
    ports:
```

```
- "8080:8080"

networks:
  myproject:
    driver: bridge
```

application.yml:

```
application:
  name: backend
security:
  oauth2:
    resourceserver:
      jwt:
        issuer-uri: http://localhost:8082/auth/realms/myrealm
```

do you have any Idea why do I get connection refused ? any help is appreciated :)

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asked Nov 13, 2020 at 14:25



Rad1

205 ● 3 ● 5 ● 17

1 Answer

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Your Keycloak container using the following port configuration

```
ports:
  - "8082:8080"
```

That mean:



Keycloak is reachable from Outside via Port `8082` .



But internally (in this docker network), keycloak is only reachable via the exposed `8080` port.
So your backend application need to connect (internally) to `http://keycloak:8080`

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answered Nov 19, 2020 at 19:18



Evil_skunk

3,252 ● 4 ● 32 ● 44