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



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
      - keycloak
    networks:
      - myproject
   restart: on-failure
```

```
- "8080:8080"

networks:
myproject:
driver: bridge
```

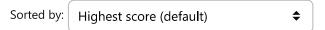
application.yml:

```
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:)



1 Answer





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

