

Title: Spring Boot, PostgreSQL, and Docker - Connection Refused while Running in Container

Post Body:

I am attempting to build a 'service' consisting of a Spring Boot application and PostgreSQL database. I have been able to access the database (running in a container) from the Spring Boot app while the Spring Boot application was running on my local machine. Now, when I attempt to move the Spring Boot application to a container, I am received the following error:

```
inventory_1 | 2018-01-20 18:43:06.108 ERROR 1 --- [nio-8080-exec-1] o.a.c.c.C.[.][.][dispatcherServlet] : Servlet.servic
```

However, I am able to connect to DB from my local machine: `psql -h localhost -p 5000 -U kelly_psql -d leisurely_diversion`

My application.properties file:

```
spring.jpa.hibernate.ddl-auto=none spring.jpa.show-sql=false spring.jpa.database-platform=org.hibernate.dialect.PostgreSQLDial
```

My docker-compose file:

```
# Use postgres/example user/password credentials version: '3.2' services: db: image: postgres ports: - 50
```

My Dockerfile (from the [Spring website](#))

```
FROM openjdk:8-jdk-alpine VOLUME /tmp ARG JAR_FILE ADD ${JAR_FILE} app.jar ENTRYPOINT ['java', '-Djava.security.egd=file:/dev/.
```

I suspect the issue lies in a misunderstanding (on my part) of Docker or containers, but I am not sure. Any advice would be appreciated.

Accepted Answer:

You are pointing your application towards `localhost`, but this is not shared between containers.

To access another container you have to refer to its `hostname`.

In your case, I understand that you want the `inventory` service to access the `db` service. So you should use the following `datasource` url:

```
spring.datasource.url=jdbc:postgresql://db:5432/leisurely_diversion
```

See this simple tutorial about connecting to a container from another container with docker compose: <https://docs.docker.com/compose/gettingstarted/>

Highest Rated Answer:

Like in my case if you are using **Docker Toolbox** for windows 8.1 then you cannot use "localhost",

Instead you have to use docker machine ip;

```
host> docker-machine ip default 192.168.99.100
```

After that your url will look like;

```
spring.datasource.url=jdbc:postgresql://192.168.99.100:5432/bankdb
```

This will successfully connect to docker Postgres DB.

Cheers!!