

Title: From Springboot app connect to mysql container

Post Body:

Hello guys !

It's my first so I will try to make the best that I can.

I want to create an app which is running with Springboot framework and I would like to connect it to a docker container which embeds MySQL (but the spring boot app is not running on docker)

So I have followed this [post](#)

I have made my docker-compose:

```
db:      image: mysql  ports:      - '3306:3306'  environment:      - MYSQL_ROOT_PASSWORD=secret      - MYSQL_DATABASE=use
```

and I run it with this command :

```
docker-compose run --service-ports db
```

All is fine, so now I change my application.properties on spring boot :

```
## Server Properties      server.port= 5000      ## Spring DATASOURCE (DataSourceAutoConfiguration & DataSourceProperties)
```

But When I run my app, I have this error :(:

Caused by: org.springframework.jdbc CannotGetJdbcConnectionException: Failed to obtain JDBC Connection; nested exception is com.mysql.jdbc.exceptions.jdbc4.CommunicationsException: Communications link failure

I'm on MacOS...

I tried to follow callicoder's course ...

<https://www.callicoder.com/spring-boot-spring-security-jwt-mysql-react-app-part-1/>

Thanks for your help :)

Accepted Answer: None

Highest Rated Answer:

The problem is that the db container is not running on localhost but rather inside a mini Linux VM since you are on a MAC.

Thus to connect to the database you need to use the IP address of the machine where the container is running. To do that run the command `docker-machine ip default`. This will return the IP address which you would use in the connection url rather than localhost:

```
spring.datasource.url= jdbc:mysql://<docker-machine-ip>:3306/users?useSSL=false&serverTimezone=UTC&useLegacyDatetimeCode=false
```