

Title: Can't connect to mySql docker container with JDBC

Post Body:

I use [Docker Maven Plugin](#)

When test-integration starts i can connect to mysql on container in terminal with this command:

```
mysql -h 127.0.0.1 -P 32795 -uroot -p
```

and everythings works good but when i want to connect mysql in java app with JDBC with this code:

```
Class.forName('com.mysql.jdbc.Driver').newInstance(); Connection connection = DriverManager.getConnection('jdbc:mysql://127.0.0.1:32795', 'root', 'root');
```

i get this error:

```
org.springframework.jdbc.CannotGetJdbcConnectionException: Could not get JDBC Connection; nested exception is java.sql.SQLException: Access denied for user 'root'@'127.0.0.1' (password given)
```

I tried:

```
export _JAVA_OPTIONS='-Djava.net.preferIPv4Stack=true'
```

and

```
System.setProperty('java.net.preferIPv4Stack', 'true');
```

but nothing changed.

[Docker Maven Plugin](#) Conf:

```
<plugin>
    <groupId>org.jolokia</groupId>
    <artifactId>docker-maven-plugin</artifactId>
    <version>0.10.0</version>
    <configuration>
        <dockerHost>tcp://127.0.0.1:2376</dockerHost>
        <imageName>mysql:5.7.11</imageName>
        <alias>mysqlContainer</alias>
        <run>
            <env>
                <MYSQL_ROOT_PASSWORD>root</MYSQL_ROOT_PASSWORD>
            </env>
        </run>
    </configuration>
</plugin>
```

Accepted Answer:

The problem was this:

MySql starting process takes about 40 seconds, so i should stay about 40 seconds and after that try to connecting to mySql, so simple :)

Or i can use these settings in pom.xml:

```
<image>
    <name>mysql:5.7.11</name>
    <alias>mysqlContainer</alias>
    <run>
        <env>
            <MYSQL_ROOT_PASSWORD>root</MYSQL_ROOT_PASSWORD>
        </env>
    </run>
</image>
```

Highest Rated Answer:

Make sure your your MySQL config file (`my.cnf`) set in your mysql container uses:

```
bind-address = 0.0.0.0
```

As explained in [this answer](#) (for a reverse case: connecting to mysql running on host from a docker container, but the idea is the same here), in bridge mode, setting `bind-address` to broadcast mode would help validate that mysql is reachable.

Note: if you use `bind-address = 0.0.0.0` your MySQL server will listen for connections on all network interfaces. That means your MySQL server could be reached from the Internet ; make sure to setup firewall rules accordingly.

After this test, check '[How to connect to mysql running in container from host machine](#)'

By default, root only has access from the localhost, 127.0.0.1 & ::1, you need to specifically allow access from 192.168.99.1 or from anywhere using '%' in the user setup.

See '[Securing the Initial MySQL Accounts](#)'.