

Title: Spring boot connection reset after a few minutes in docker container

Post Body:

The backend runs in a docker container. It runs with spring boot & security and works fine. The frontend runs in another container as well. All works fine until out of nowhere this exception is thrown. I only noticed this exception after I idled a few minutes (normally between 5 and 10 min).

```
WARN 1 --- [nio-8080-exec-2] o.h.engine.jdbc.spi.SqlExceptionHelper : SQL Error: 0, SQLState: 08S01
ERROR 1 --- [nio-8080-exec-2] o.h.engine.jdbc.spi.SqlExceptionHelper : I/O Error: Connection reset
ERROR 1 --- [nio-8080-exec-2] o.a.c.c.C.[.][.].dispatcherServlet : Servlet.service() for servlet [dispatcherServlet] in context with path [] threw exception
[Request processing failed; nested exception is org.springframework.dao.DataAccessResourceFailureException: could not extract ResultSet; nested
exception is org.hibernate.exception.JDBCConnectionException: could not extract ResultSet] with root cause

java.net.SocketException: Connection reset at java.net.SocketInputStream.read(SocketInputStream.java:209) ~[na:1.8.0_111-internal] at
java.net.SocketInputStream.read(SocketInputStream.java:141) ~[na:1.8.0_111-internal] at java.io.DataInputStream.readFully(DataInputStream.java:195)
~[na:1.8.0_111-internal]
.....
```

The connection to the Database is available all the time. The weird thing is, that this error is only thrown when I run my project with docker. If I run it with eclipse & node.js the error don't occurs. The only thing I noticed was, that a few minutes after I logged in and idled, I got automatically logged out when I tried to do something. I don't know if this has any connection with the original error.

application.properties

```
spring.datasource.url=databaseURL spring.datasource.username=SQLUsername spring.datasource.password=Password spring.datasource
```

I'm glad for every suggestion that could help to fix this problem.

Accepted Answer: None

Highest Rated Answer:

I had the same problem months ago! This happens because the jvm doesn't have memory enough to accept this request!

This error is intermittent and is very difficult to find your root cause!

Try this: Put in your Dockerfile some flags to solve it

```
ENTRYPOINT [ "java", "-XX:+TieredCompilation", "-XX:TieredStopAtLevel=1", "-jar", "yourJar.jar" ]
```

More details here: <https://jpbempel.github.io/2020/05/22/startup-containers-tieredcompilation.html>

Sometimes the problem can be memory. When you start your container with java, the jvm default heap memory is 1/4 of total memory of container. Then you can use the flag **-XX:MaxRAMFraction** where your value has a range 1 to 4.

More details here: <https://merikan.com/2019/04/jvm-in-a-container/#java-8u131-and-java-9>

Good luck!