

RE: BUG: JDBC connection disconnected, can't reconnect

Source:

<http://www.tech-archive.net/Archive/SQL-Server/microsoft.public.sqlserver.jdbcdriver/2008-06/msg00009.html>

- *From:* Marco <Marco@xxxxxxxxxxxxxxxxxxxxxxxxxxxxxx>
 - *Date:* Thu, 26 Jun 2008 02:54:00 -0700
-

Hi,

we have exacty the same problem. Our environment:
Windows 2003 Standard SP2
SQL 2005 Standard
Sun JDK 1.6
SQL JDBC 1.2

Help much appreciated!

Marco

"Frank Sommers" wrote:

Hi,

Our environment is:
Windows Server 2003, Service Pack 2
SQL Server Express 2005
SQLServer JDBC driver 1.2
Sun JDK 1.6 (we tried this on JDK 1.5 as well)
There is no virus protection software on the host, and no firewall is enabled.

Our problem is that the JDBC connection running on the localhost periodically gets disconnected, and then we can't reconnect to the database at all, unless we physically power cycle the server.

This is a very strange situation, and to illustrate, I created the following command-line program:

```
public class DBTest {  
  
    public static void main(String[] arg) throws Exception {  
        Class.forName("com.microsoft.sqlserver.jdbc.SQLServerDriver");  
        Connection conn =  
            DriverManager.getConnection("jdbc:sqlserver://127.0.0.1:1433;databaseName=datamart",
```

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```
"username", "password");  
System.out.println("Connected");  
conn.close();  
}  
}
```

Essentially, this program verifies that a database connection can be made to the SQL Server instance on the local host.

Executing this from the command line works the vast majority of the time.

However, once the Web application running on the same host encounters the JDBC disconnection issue, executing this program from the command line results in the following exception:

```
C:\Documents and Settings\frank>java -cp sqljdbc.jar;. DBTest  
Exception in thread "main" com.microsoft.sqlserver.jdbc.SQLServerException:  
Software caused connect on abort: rcv failed  
at  
com.microsoft.sqlserver.jdbc.SQLServerConnection.terminate(Unknown Source)  
at com.microsoft.sqlserver.jdbc.TDSChannel.read(Unknown Source)  
at com.microsoft.sqlserver.jdbc.TDSReader.readPacket(Unknown Source)  
at com.microsoft.sqlserver.jdbc.TDSReader.readPacket(Unknown Source)  
at com.microsoft.sqlserver.jdbc.TDSCommand.startResponse(Unknown  
Source)  
at com.microsoft.sqlserver.jdbc.TDSCommand.startResponse(Unknown  
Source)  
at  
com.microsoft.sqlserver.jdbc.SQLServerConnection.sendLogon(Unknown Source)  
at com.microsoft.sqlserver.jdbc.SQLServerConnection.logon(Unknown  
Source)  
at  
com.microsoft.sqlserver.jdbc.SQLServerConnection.access$000(Unknown Source)  
at  
com.microsoft.sqlserver.jdbc.SQLServerConnection$LogonCommand.doExecute(Unknown  
Source)  
at com.microsoft.sqlserver.jdbc.TDSCommand.execute(Unknown Source)  
at  
com.microsoft.sqlserver.jdbc.SQLServerConnection.executeCommand(Unknown  
Source)  
at  
com.microsoft.sqlserver.jdbc.SQLServerConnection.connectHelper(Unknown Source)  
at  
com.microsoft.sqlserver.jdbc.SQLServerConnection.loginWithoutFailover(Unknown  
Source)  
at com.microsoft.sqlserver.jdbc.SQLServerConnection.connect(Unknown  
Source)  
at com.microsoft.sqlserver.jdbc.SQLServerDriver.connect(Unknown  
Source)  
at java.sql.DriverManager.getConnection(Unknown Source)  
at java.sql.DriverManager.getConnection(Unknown Source)
```

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at DBTest.main(DBTest.java:7)

The relevant line seems to be:

Software caused connect on abort: recv failed

There is no way to obtain further access to the database, except by power-cycling the machine. Shutting down and then re-starting the SQL Server instance does not help, nor does restarting any individual process on the server.

Something permanently disables connection to the database server, and only a hard reset of the OS solves that problem.

Any suggestions would be most appreciated, as this is a serious, mission-critical problem for us right now.