

Microsoft ODBC for Oracle Driver problem

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I think I have a resource issue with this driver.

Our customers can either buy our software and host it themselves on their own web server or we can host it for them.

On our hosted servers, we are having an issue where suddenly the ODBC connection to the database cannot be established and the application pool has to be recycled, resolving the issue till next time. This is a real issue for us as once this happens for one customer it happens for every customer on that hosted machine.

This is running IIS6 on Windows 2003 Enterprise Edition on a machine with 2Gb ram and a Dual CPU.

Our presentation layer is an ISAPI DLL that connects to Oracle via the Microsoft ODBC Driver for Oracle.

Each customer gets their own section on the web server. There are 133 customers, 133 separate websites and 133 ODBC connections. Due to compatibility issues with Oracle and their drivers, the Microsoft ODBC for Oracle driver is what we specify for use with our software and this works without issue, except on our hosting server.

Examination of the Oracle logs shows nothing and other machines are still able to connect to the database, so the issue is clearly isolated to the machine rather than Oracle or the machine it's on.

Each one of these ISAPI DLLs creates 250 worker threads. Each one could potentially have a connection to the database. That means that there are 33250 threads created on the machine each potentially with a connection to the database. Due to the nature of our software, there is a real possibility that a lot of people submit at a specific time.

The ISAPI software is written in Visual C++6 and connects to the database using a COM component. It opens and closes the ODBC data handles every time someone requests a page. The DB COM component is also discarded at the end of the request, this discards the ODBC data handle. The DB COM component uses the MFC ODBC classes. Opening and closing both COM and ODBC like that is not ideal, it's quite slow, but this is old software now, it works

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generally, and I have been given responsibility to maintain it.

I've tested the database COM component for any hint of a memory or resource leak and cannot see one. 10's millions of requests to various sections and neither does it leak resources or does the connection to Oracle stop working.

ODBC tracing is not available to me (KB836072)

Any suggestions on what might be causing this?

I cannot see anything related to this in the knowledge base for that ODBC driver. Is there a way of monitoring the ODBC drivers resources using the Performance monitor?

Alex

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