

Re: Problem connecting to Oracle database

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<http://www.tech-archive.net/Archive/DotNet/microsoft.public.dotnet.framework.adonet/2005-10/msg00714.html>

- *From:* Paul Clement <UseAddressAtEndofMessage@xxxxxxxxxxxxxxxx>
 - *Date:* Wed, 19 Oct 2005 09:18:00 -0500
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On Wed, 19 Oct 2005 05:40:02 -0700, "Jaime Stuardo" <JaimeStuardo@xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx> wrote:

- ✂ Hi all...
- ✂
- ✂ I have an ASP.NET application where I placed a DataSource control connected
- ✂ to an Oracle 7.3.4 database using MSDAORA provider.
- ✂
- ✂ When I configured the connection string I chose Oracle Database as the data
- ✂ source and .NET Framework Data Provider for OLEDB as the data provider.
- ✂
- ✂ In the connection string configuration wizard, I can use a query to test
- ✂ the results and also I could see the connection in Server Explorer tab. I can
- ✂ see the database tables, views and stored procedures. All that means that I
- ✂ have a good connection to Oracle.
- ✂
- ✂ On the other hand, I placed a Data Grid control in the page, configured to
- ✂ use the data source control already created. The grid refreshes columns
- ✂ according to the query I entered in the connection string wizard.
- ✂
- ✂ When I run the application, I get the error telling that Oracle client
- ✂ components weren't found and that I must install Oracle client 7.3.3 or
- ✂ above. I tried using Oracle provider in connection string but it produces the
- ✂ same error but concerning Oracle 8 and above.
- ✂
- ✂ The fact is that I have Oracle 9i client installed in my machine. I can use
- ✂ tools such TOAD to query the database, and even, as I told, when I configure
- ✂ the connection string in Visual Studio I can use queries to see the results.
- ✂
- ✂ I use ASP.NET 2.0 and Visual Studio 2005.
- ✂
- ✂ Thanks a lot in advance
- ✂ Jaime
- ✂

It's a permissions issue:

Problem Description

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When running an application using the Oracle9i Release 2 (9.2.0.1.0) install of client software and that attempts to connect to an Oracle database with the Authenticated User privilege (such as when you use Microsoft's Internet Information Server (IIS)) through any of the following programmatic interfaces

1. Oracle Provider for OLE DB
2. Microsoft OLE DB Provider for Oracle
3. Oracle ODBC Driver
4. Microsoft ODBC for Oracle
5. Oracle Objects for OLE (OO4O)
6. Microsoft .NET Framework Data Provider for Oracle

you may receive one of the following errors:

(1) Oracle Provider for OLE DB

- (a) Error Type: Microsoft OLE DB Service Components (0x80070005)

Access is denied.

- (b) OraOLEDB.Oracle Provider is not registered on the local machine

(2) Microsoft OLE DB Provider for Oracle

- (a) Error Type: Microsoft OLE DB Provider for Oracle (0x80004005)

Oracle client and networking components were not found. These components are supplied by Oracle Corporation and are part of the Oracle Version 7.3.3 or later client software installation. Provider is unable to function until these components are installed.

- (b) Error Type: Microsoft OLE DB Provider for Oracle (0x80004005)

Oracle error occurred, but error message could not be retrieved from Oracle.

(3) Oracle ODBC Driver

- (a) Error Type: Microsoft OLE DB Provider for ODBC Drivers (0x80004005)

Specified driver could not be loaded due to system error 5 (Oracle in OraHome92).

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(4) Microsoft ODBC for Oracle

(a) The Oracle(tm) client and networking components were not found. These components are supplied by Oracle Corporation and are part of the Oracle Version 7.3 (or greater) client software installation.

You will be unable to use this driver until these components have been installed.

(b) Error number: -2147467259

Error Description: [Microsoft][ODBC Driver Manager] Driver's SQLAllocHandle on SQL_HANDLE_ENV failed

(5) Oracle Objects for OLE

(a) while using a GLOBAL.ASA file

Error Type: Active Server Pages (0x0)

An error occurred while creating object 'OraSession'.

(b) not using a GLOBAL.ASA file

Error Type: Microsoft VBScript runtime (0x800A0046)

Permission denied: 'CreateObject'

(6) Microsoft .NET Framework Data Provider for Oracle

(a) System.DllNotFoundException: Unable to load DLL (oci.dll).
at System.Data.OracleClient.DBObjectPool.GetObject(Boolean& isInTransaction)
at System.Data.OracleClient.OracleConnectionPoolManager.
GetPooledConnection(String encryptedConnectionString,
OracleConnectionString options, Boolean& isInTransaction)
at System.Data.OracleClient.OracleConnection.OpenInternal
(OracleConnectionString parsedConnectionString, Object transact)
at System.Data.OracleClient.OracleConnection.Open()
at WCWSItemAvailability.ETAAvailability.SingleAvailability(String
ItemNumber, String BusinessUnit, Int32 OrderQty, Int32&
AvailableQty, Int32& OnHandQty, String& ETADate, Int32& Error)
at WCWSItemAvailability.ETAAvailability.XMLAvailability(String
XMLInput)

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(7) Other miscellaneous errors

(a) The Specified Module Could Not Be Found

(b) ORA-00604: error occurred at recursive SQL level 1
ORA-12705: invalid or unknown NLS parameter value specified

(c) Unable to load DLL (OraOps9.dll):

...

[DllNotFoundException: Unable to load DLL (OraOps9.dll).]

(d) System Error 998 trying to run ASP page

Solution Description

Oracle 9.2 Client software requires that you give the Authenticated User privilege to the Oracle Home by following these steps:

1. Log on to Windows as a user with Administrator privileges.
2. Launch Windows Explorer from the Start Menu and navigate to the ORACLE_HOME folder. This is typically the "Ora92" folder under the "Oracle" folder (i.e. D:\Oracle\Ora92).
3. Right-click on the ORACLE_HOME folder and choose the "Properties" option from the drop down list. A "Properties" window should appear.
4. Click on the "Security" tab of the "Properties" window.
5. Click on "Authenticated Users" item in the "Name" list (on Windows XP the "Name" list is called "Group or user names").
6. Uncheck the "Read and Execute" box in the "Permissions" list under the "Allow" column (on Windows XP the "Permissions" list is called "Permissions for Authenticated Users").
7. Re-check the "Read and Execute" box under the "Allow" column (this is the box you just unchecked).
8. Click the "Advanced" button and in the "Permission Entries" list make sure you see the "Authenticated Users" listed there with:

Permission = Read & Execute

Apply To = This folder, subfolders and files

If this is NOT the case, edit that line and make sure the "Apply onto" drop-down box is set to "This folder, subfolders and files". This should already be set properly but it is important that you verify this.

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9. Click the "Ok" button until you close out all of the security properties windows. The cursor may present the hour glass for a few seconds as it applies the permissions you just changed to all subfolders and files.

10. Reboot your computer to assure that these changes have taken effect.

Re-execute the application and it should now work.

Explanation

If you install Oracle9i Release 2 (9.2.0.1.0) on a computer running Windows with an NTFS partition, the contents of ORACLE_HOME directory will not be visible to users who are authenticated on that machine. These permissions were not set properly when the software was installed.

Applications that were working fine with previous versions of Oracle software will stop working when they upgrade to Oracle 9.2.

NOTE: The application will continue to work if the user has logged onto the machine as an Administrator.

Any application that is using the Authenticated User privilege will not work. A notable example would be IIS which might service some of the requests based on the Authenticated User privileges.

To demonstrate the problem in further detail, you can log on to the operating system as an authenticated machine user. You won't be able browse the contents of the ORACLE_HOME directory demonstrating your inability to load any Oracle DLLs or make a connection.

Additional Information

The above error messages may not only be encountered when using Oracle 9.2 client software but may also exist when running into general permissions issues using third party products on a Windows platform.

Paul

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Microsoft MVP (Visual Basic)

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