

Re: Internal connection fatal error

Source:

<http://www.tech-archive.net/Archive/DotNet/microsoft.public.dotnet.framework.adonet/2004-08/0215.html>

From: Angel Saenz-Badillos[MS] (angelsa_at_online.microsoft.com)

Date: 08/03/04

Date: Tue, 3 Aug 2004 16:42:38 -0700

Max,

Can you verify the connection number with the server side performance counters? The client side counters are unfortunately next to useless because of this: <http://support.microsoft.com/default.aspx?scid=kb:en-us:Q314429>

--

Angel Saenz-Badillos [MS] Managed Providers

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I am now blogging about ADO.NET: <http://weblogs.asp.net/angelsb/>

"Max Metral" <memetral@hotmail.com> wrote in message

news:Oe39FgaeEHA.2544@TK2MSFTNGP10.phx.gbl...

> Another note... I was monitoring perf when this error occurred. The DB CPU

> went through the roof, and other connections failed. So here's my newest > flaky theory:

>

> 1) A "fatal error" happens, because of some bug somewhere, probably MSFTs in

> ADO.Net, but who knows.

> 2) The connection pool gets tossed out and rebuilt

> 3) Everybody and their mother tries to connect to the db

> 4) The db CPU gets pegged

> 5) Goto step 1.

>

> One thing bolstering this theory: The perf counter "SqlClient: Current # > pooled and nonpooled connections" on one of the web servers reads 415,

even

> though there are only 30 conns to the db overall.

>

> "Max Metral" <memetral@hotmail.com> wrote in message

> news:epyenbaeEHA.2852@tk2msftngp13.phx.gbl...

>> I like this error even less. Anything interesting on this:

>>

>> MESSAGE: A severe error occurred on the current command. The results, if >> any, should be discarded.

>>

>> SOURCE: .Net SqlClient Data Provider

>>

>> STACKTRACE: at

>> System.Data.SqlClient.SqlCommand.ExecuteReader(CommandBehavior

>> cmdBehavior,

>> RunBehavior runBehavior, Boolean returnStream)

>>

Re: Internal connection fatal error

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> > at System.Data.SqlClient.SqlCommand.ExecuteReader()
> >
> > "Angel Saenz-Badillos[MS]" <angelsa@online.microsoft.com> wrote in
message
> > news:%236dTxqLeEHA.720@TK2MSFTNGP11.phx.gbl...
> > > Max,
> > > I believe from your description that you are running into Q814114.
> Please
> > > contact PSS directly for the fix
> > >
> > >
> > > http://support.microsoft.com/default.aspx?scid=/support/contact/default.asp
> > > (this is a free call).
> > >
> > > The bug addressed by this QFE is almost exactly what you describe, a
> > > dirty
> > > connection gets in the pool. This only repros when the network you are
> > > using
> > > is high traffic or high latency, this forces the network libraries to
> > > include multiple TDS Packets per read. Normally on connection close we
> > > clean
> > > the data waiting on the connection, there is a bug where we fail to
> > > clean
> > > up
> > > multiple packet TDS under certain conditions.
> > >
> > > I apologize for the obvious pain this is causing, let me know if this
> > > does
> > > not fix your problem.
> > > --
> > > Angel Saenz-Badillos [MS] Managed Providers
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> > > rights. Please do not send email directly to this alias.
> > > This alias is for newsgroup purposes only.
> > > I am now blogging about ADO.NET: http://weblogs.asp.net/angelsb/
> > >
> > >
> > >
> > > "Max Metral" <memetral@hotmail.com> wrote in message
> > > news:OCIXOr1dEHA.3864@TK2MSFTNGP10.phx.gbl...
> > > > LAN connection, which isn't especially loaded (.27% according to
> > > > perfmon).
> > > > The pool stabilizes at about 80 connections under heavy load,
although
> > > > I
> > > > just got one of these errors with 10 in the pool. I also wonder
> > > > whether
> > > > it's some sort of "dirty" connection in the pool, is this possible?
> > > > i.e.
> > > > something like:
> > > >
> > > > 1) Expensive query in web page
> > > > 2) user hits stop, recordset still "in" the connection
> > > > 3) connection goes back in pool
> > > > 4) another thread gets conn
> > > > 5) conn is in weird state, all bets off (also would explain errors
> > > > like
> > > > missing columns, sort of)
> > > >
> > > > I realize this kind of diagnosis is indistinguishable from guessing,
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> but
> > > you
> > > > never know
> > > >
> > > > "William (Bill) Vaughn" <billvaRemoveThis@nwlink.com> wrote in
message
> > > > news:OqPl35xdEHA.384@TK2MSFTNGP10.phx.gbl...
> > > > > Turn on Perfmon and watch the connection pool. Is it constantly
> > growing
> > > > over
> > > > > time or does it flatten out after a few minutes under load? Is the
> > > network
> > > > > stable? Are you connecting over a LAN, WAN or web? If you lose a
> > > > connection
> > > > > due to IO problems on the wire, you can get this type of
exception.
> > > > >
> > > > > --
> > > > > _____
> > > > > William (Bill) Vaughn
> > > > > Author, Mentor, Consultant
> > > > > Microsoft MVP
> > > > > www.betav.com
> > > > > Please reply only to the newsgroup so that others can benefit.
> > > > > This posting is provided "AS IS" with no warranties, and confers
no
> > > > > rights.
> > > > > _____
> > > > >
> > > > > "Max Metral" <memetral@hotmail.com> wrote in message
> > > > > news:OPsOqrmdeHA.3212@TK2MSFTNGP12.phx.gbl...
> > > > > > I've seen other posts about such errors, but never a solution.
It
> > > > > seems
> > > > > > to
> > > > > > > appear randomly under load. We are pretty vigilant about
"using"
> > > > > > > > SqlDataReader's and Connections, so it's pretty unlikely that
we're
> > > > > > > doing
> > > > > > > > something outwardly wrong that would excuse this sort of
behavior.
> > > > > > The
> > > > > > > > stack is:
> > > > > > > >
> > > > > > > > TARGETSITE: System.Data.SqlClient.SqlDataReader
> > > > > > > > ExecuteReader(System.Data.CommandBehavior,
> > > > > > > > System.Data.SqlClient.RunBehavior, Boolean)
> > > > > > > >
> > > > > > > > STACKTRACE: at
> > > > > > > > System.Data.SqlClient.SqlCommand.ExecuteReader(CommandBehavior
> > > > > > > > cmdBehavior,
> > > > > > > > RunBehavior runBehavior, Boolean returnStream)
> > > > > > > > at System.Data.SqlClient.SqlCommand.ExecuteReader()
> > > > > > > > at Web.MyPage.Page_Load(Object sender, EventArgs e)
> > > > > > > > <removed by me>
> > > > > > > >
> > > > > > > > Perhaps related, we also see random errors like this about
columns
> > > > > > we
> > > > > > > > KNOW
> > > > > > > > > exist in recordsets that are being returned:
```

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```
> > > > >
> > > > > MESSAGE: EventId
> > > > > SOURCE: System.Data
> > > > > TARGETSITE: Int32.GetOrdinal(System.String)
> > > > > STACKTRACE: at
> System.Data.Common.FieldNameLookup.GetOrdinal(String
> > > > > fieldName)
> > > > > at System.Data.SqlClient.SqlDataReader.GetOrdinal(String name)
> > > > > at MyObject..ctor(IDataReader eventReader, EventData eventData)
> > > > > <removed by me>
> > > > >
> > > > > This is definitely unacceptable behavior from ADO, SQL Server,
or
> > > > both...
> > > > No
> > > > > code that an end user writes in a managed language should be
able
> to
> > > > create
> > > > > this kind of untraceable havoc.
> > > > >
> > > > > Any thoughts?
> > > > >
> > > > >
> > > > >
> > > >
> > >
> >
> >
>
>
```