Re: Deadlock questions

Source:
http://www.tech−archive.net/Archive/SQL−Server/microsoft.public.sqlserver.server/2004−07/3472.html

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From: Greg Linwood (*g_linwoodQhotmail.com*)
Date: 07/25/04

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Date: Sun, 25 Jul 2004 14:17:53 +1000
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I just tried the tinyurl site & it seems to be up now, but in case you still
can't get at it, here's the long version:

http://groups.google.com.au/groups?hl=en&lr=&ie=UTF−8&frame=right&th=e61687c0b5d1727a&seekm=Q9foUNG

Regards,
Greg Linwood
SQL Server MVP

"Hassan" <fatima_ja@hotmail.com> wrote in message
news:uL0J52EcEHA.2812@TK2MSFTNGP11.phx.gbl...
> Also cant view the site you mentioned regarding parallelism deadlock
>
>
> "Greg Linwood" <g_linwoodQhotmail.com> wrote in message
> news:uDiqgU5bEHA.1652@TK2MSFTNGP09.phx.gbl...
> > Hi Hassan
> >
> > There's an example of a parallelism deadlock in the newsgroup archive
> here:
> > http://tinyurl.com/4atwl. These can be nasty to solve.
> >
> > As far as how the report structure from the article would read
normally −
> > the nodes basically have their information represented upside down in
the
> > article, as if the report has been partially pulled from the SQL
> Enterprise
> > Manager's log viewer. Most people who actually read & use these reports
in
> > the real world access them directly from the log files (not the SQL EM
> > viewer) so that they can be read in the intended order. The key thing
here
> > is that the locked resources are declared at the top of the Node report
> > block, which makes the report slightly intuitive. From the log, this
> > particular report would be formatted something like this:
> >

> > *Wait−for graph*
> > *Node:1*
> > *KEY: 8:1653632984:2 (da00ce043a9e) CleanCnt:1 Mode: U Fl ags: 0x0*
> > *Grant List 0::*
> > *Owner:0x1937f2a0 Mode: S Flg:0x0 Ref:1 Life:00000000 SPID:55*
ECID:0
> > *SPID: 55 ECID: 0 Statement Type: EXECUTE Line #: 1*
> > *Input Buf: RPC Event: sp_cursoropen;1*
> > *Requested By:*
> > *ResType:LockOwner Stype:'OR' Mode: X SPID:60 ECID:0 Ec:(0x1F1BB5B0)*
> > *Value:0x193*
> > *Victim Resource Owner:*
> > *ResType:LockOwner Stype:'OR' Mode: S SPID:55 ECID:0 Ec:(0x33AE1538)*
> > *Value:0x193*
> >
> > *Node:2*
> > *KEY: 8:1653632984:1 (2d018af70d80) CleanCnt:1 Mode: X Flags: 0x0*
> > *Grant List 0::*
> > *Owner:0x1936e420 Mode: X Flg:0x0 Ref:0 Life:02000000 SPID:60*
ECID:0
> > *SPID: 60 ECID: 0 Statement Type: UPDATE Line #: 1*
> > *Input Buf: Language Event: Update tblQueuedEvents Set NotifyID = 2,*
> > *ResynchDate*
> > *Requested By:*
> > *ResType:LockOwner Stype:'OR' Mode: S SPID:55 ECID:0 Ec:(0x33AE1538)*
> > *Value:0x193*
> >
> > *Regards,*
> > *Greg Linwood*
> > *SQL Server MVP*
> >
> > *"Hassan" <fatima_ja@hotmail.com> wrote in message*
> > *news:%23COH$PsbEHA.384@TK2MSFTNGP10.phx.gbl...*
> > > *Thanks Greg,*
> > >
> > > *How would the graph actually read ? Have you any idea how the graph*
> *would*
> > > *look like should it involve parallelism or threads as is also*
mentioned
> *in*
> > > *the article ?*
> > >
> > > *"Greg Linwood" <g_linwoodQhotmail.com> wrote in message*
> > > *news:uf1WjzibEHA.3596@tk2msftngp13.phx.gbl...*
> > > > *Hi Hassan*
> > > >
> > > > *Answered inline:*
> > > >
> > > > *"Hassan" <fatima_ja@hotmail.com> wrote in message*
> > > > *news:eOyTG6dbEHA.2840@TK2MSFTNGP11.phx.gbl...*
> > > > > *I had some questions based on this article*

> > > > > http://www.support.microsoft.com/?id=832524
> > > > >
> > > > > With regards to the deadlock graph, it states
> > > > >
> > > > > "Next, in Node 1, Request By, SPID 55 requested a shared lock,
Mode:
> > S,
> > > on
> > > > > IndexId=1. In Node 2, Request By, SPID 60 requested an exclusive
> lock,
> > > > Mode:
> > > > > X, on IndexId=2. Because these lock requests occur at the same
time,
> > the
> > > > > deadlock occurs. Each SPID's granted locks are preventing the
> > requested
> > > > > locks from continuing"
> > > > >
> > > > > How does it know that SPID 55 is requesting a lock on IndexId=1
and
> > > that
> > > > > SPID 60 is requesting a lock on IndexId=2. Am i suppose to assume
> that
> > > > bcos
> > > > > of the granted locks ?
> > > >
> > > > Yes, that's correct. It makes sense because this is the nature of a
> > > > deadlock − that resource owners are waiting on each other for locks
> > > against
> > > > the resources each other already has granted.
> > > >
> > > > >
> > > > > Which SPID is the deadlock victim here ..i.e which SPID was killed
?
> > Is
> > > it
> > > > > SPID 60 ?
> > > >
> > > > Yes. The report in the article is not formatted correctly which
makes
> > this
> > > a
> > > > little confusing.
> > > >
> > > > >
> > > > > Any info in addition to that article is highly appreciated.
> > > >
> > > >
> > > > I have responded to the private newsgroup about this article already
> but
> > > so

> > > > far I've been ignored. I was hoping this article would be corrected
> > before
> > > > being released so I'm disappointed to see that you've encountered it
> in
> > > such
> > > > a confused state.
> > > >
> > > > Here are some additional comments I posted to the private newsgroup
> > which
> > > > you might find helpful:
> > > >
> > > > A few issues I picked up in this article:
> > > >
> > > > (a) "The following is a sample of the output that you might see in
the
> > SQL
> > > > Server error log when you use the −T1205 startup parameter. ". That
> > should
> > > > be −T1204, not −T1205
> > > >
> > > > (b) The example graph report is messed up & does not read in order.
> Sure
> > > the
> > > > EM reads log files in reverse, but this one seems right out of
> kilter −
> > > for
> > > > the purpose of the article, it should probably be set out in proper
> > > order..
> > > >
> > > > (c) The statement "An IndexId that is equal to 2 is a nonclustered
> > index."
> > > > seems not to communicate it's intended message very well. A non
> > clustered
> > > > index may have a value of 2 or greater, not just 2.
> > > >
> > > > (d) The article suggests first to use startup parameters rather than
> > dbcc.
> > > > Why suggest to users that they stop the server when they don't have
> to?
> > > >
> > > > Otherwise, this would be a useful article to the many who ask about
> this
> > > in
> > > > the NGs..
> > > >
> > > > Regards,
> > > > Greg Linwood
> > > > SQL Server MVP
> > > >
> > > > Thanks
> > > >

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