

Re: Windows Auth to SQL Server from ATL Web Service not working...

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Source: <http://www.tech-archive.net/Archive/VC/microsoft.public.vc.atl/2008-01/msg00086.html>

- *From:* "Alexander Nickolov" <agnickolov@xxxxxxxx>
 - *Date:* Fri, 18 Jan 2008 13:43:05 -0800
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Isn't a domain an option? Legacy credentials matching is a tricky business better left unexplored...

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Alexander Nickolov
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email: agnickolov@xxxxxxxx
MVP VC FAQ: <http://vcfaq.mvps.org>
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"mike" <mikebizub@xxxxxxxxxxxx> wrote in message
news:8d72d88a-8342-4432-95d3-67557d7fdeb8@xx
On Jan 17, 1:59 pm, "Brian Muth" <bm...@xxxxxxxx> wrote:

"mike" <mikebi...@xxxxxxxx> wrote in
message news:8f08910a-b98b-4098-bbb0-d3069a203bf6@xx

I have a web service that I've created using ATL Server (Visual Studio 2005 running on Windows 2003). The web service has NTLM auth on and anonymous turned off. the app pool its in is running under a local machine account. I'm trying to access SQL Server on a different machine. When I hit the web service with a simple test application, it appears to authenticate me and had the LOGON_USER equal to the account I'm logged on as. However, when the database call happens, it looks as though these credentials are not flowing to SQL as the event log on the SQL box has a security audit failure with the account being anonymous.

Can someone please help me understand how I can flow credentials (they could even be the one the application pool in iis is running under) to SQL on a different box from my web service in an Atl Server web service.

By default, security credentials are only allowed to cross one application

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boundary. You are configured for two hops: The first hop is from the test application to the web service. At that point the web service's thread has an impersonation token and is now impersonating the security identity of the test application. However, this impersonation token is not passed on to the SQL Server. Instead the process token is used, which is running as the local system account. This is interpreted as "anonymous" by the SQL Server.

Probably the simplest solution is to run the web service under a specific account, something other than the local system account. You should confirm that this is the account that is "seen" by SQL Server. If you want to have the original user's account passed on over two hops, then your only option is to turn on delegation. This is not for the faint of heart; there are quite a few dials that need to be adjusted to get delegation to work. It's generally not recommended, because then your SQL Server connection pool count will go way up. – Hide quoted text –

– Show quoted text –

Brian,

Thanks for the quick reply. I'm running the application pool that the web service is in under an account that exists on both the web and SQL server (same name/password). Below are 3 entries from the web server event log. The 3rd entry seems to imply its trying to negotiate using the IUSR account from some reason instead of the encoder account (the account that is common to both machines and that the application pool is running under). I was under the impression that in this scenario, the encoder account would be use as the account going to SQL Server.

Do you know what might be causing this?

Entry 1 =====

Event Type: Success Audit
Event Source: Security
Event Category: Account Logon
Event ID: 680
Date: 1/17/2008
Time: 2:29:15 PM
User: SERVER2\IUSR_SERVER2
Computer: SERVER2
Description:
Logon attempt by: MICROSOFT_AUTHENTICATION_PACKAGE_V1_0
Logon account: IUSR_SERVER2
Source Workstation: SERVER2
Error Code: 0x0

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For more information, see Help and Support Center at <http://go.microsoft.com/fwlink/events.asp>.

Entry 2 =====

Event Type: Success Audit
Event Source: Security
Event Category: Logon/Logoff
Event ID: 552
Date: 1/17/2008
Time: 2:29:15 PM
User: SERVER2\encoder
Computer: SERVER2
Description:
Logon attempt using explicit credentials:
Logged on user:
User Name: encoder
Domain: SERVER2
Logon ID: (0x0,0x5337B3B)
Logon GUID: -
User whose credentials were used:
Target User Name: IUSR_SERVER2
Target Domain: SERVER2
Target Logon GUID: -

Target Server Name: localhost
Target Server Info: localhost
Caller Process ID: 2432
Source Network Address: -
Source Port: -

For more information, see Help and Support Center at <http://go.microsoft.com/fwlink/events.asp>.

Entry 3 =====

Event Type: Success Audit
Event Source: Security
Event Category: Logon/Logoff
Event ID: 540
Date: 1/17/2008
Time: 2:29:15 PM
User: SERVER2\IUSR_SERVER2
Computer: SERVER2
Description:
Successful Network Logon:
User Name: IUSR_SERVER2
Domain: SERVER2

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Logon ID: (0x0,0x54E2E6D)
Logon Type: 8
Logon Process: Advapi
Authentication Package: Negotiate
Workstation Name: SERVER2
Logon GUID: –
Caller User Name: encoder
Caller Domain: SERVER2
Caller Logon ID: (0x0,0x5337B3B)
Caller Process ID: 2432
Transited Services: –
Source Network Address: –
Source Port: –

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