

## Re: Integrated Authentication with SQL

**Source:**

<http://www.derkeiler.com/Newsgroups/microsoft.public.dotnet.framework.aspnet.security/2005-10/0075.html>

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**From:** Scott Elgram (*SElgram\_at\_verifpoint.com*)

**Date:** 10/07/05

Date: Fri, 7 Oct 2005 11:22:15 -0700

Peter,

On the IIS level there is no trouble authenticating with kerberos. I have "Windows Integrated Authentication" as the only option checked for the entire site and have no trouble accessing any other part. It seems that the problem is in when I try to flow those credentials over to the SQL server.

I have turned on Auditing of successful logon events for the Web server and the SQL server. When I try to access the site I receive the following record in the Web Servers even log:

```
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----  
Date:          10/07/2005          Source:         Security  
Time:          10:40              Category:      Logon/Logoff  
Type:          Success            Event ID:      540  
User:          <domain>\<username>  
Computer:     WEB01  
Description:  
Successful Network Logon:  
  User Name: <username>  
  Domain:   <domain>  
  Logon ID: (0x0,0x4EACB)  
  Logon Type: 3  
  Logon Process: Kerberos  
  Authentication Package: Kerberos  
  Workstation Name:  
  Logon GUID: {207e942d-6d16-5a6e-630c-d466379edfea}  
  Caller User Name: -  
  Caller Domain: -  
  Caller Logon ID: -  
  Caller Process ID: -  
  Transited Services: -  
  Source Network Address: 192.168.0.103  
  Source Port: 1412  
-----
```

```
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-----  
This, I think is good....I have no problem accessing any other part of the site that uses Integrated Authentication. However, I have noticed that for every one of the above entries in the web server I have the following entry on the SQL server.  
-----
```

```
-----  
Date:          10/07/2005          Source:         Security  
Time:          10:40              Category:      Logon/Logoff
```

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Type: Success Event ID: 538  
User: NT AUTHORITY\ANONYMOUS LOGON  
Computer: SQL01  
Description:  
User Logoff:  
User Name: ANONYMOUS LOGON  
Domain: NT AUTHORITY  
Logon ID: (0x0,0x17BA0E)  
Logon Type: 3

-----  
If I am understanding this correctly then the credentials being used to access the site are not flowing to the SQL server as I had intended. The part that puzzles me here aside from it not working is that this entry is "User Logoff".

Perhaps I am missing some small setting or detail?

-Scott

"Peter Jakab" <someone@from.hu> wrote in message  
news:Odm4dillyFHA.2960@tk2msftngp13.phx.gbl...

> See

>

> <http://support.microsoft.com/?id=215383>

>

> In iis 6 metabase is an xml file that you can edit with notepad.

>

>

> <http://www.microsoft.com/technet/prodtechnol/WindowsServer2003/Library/IIS/7258232a-5e16-4a83-b76>

>

> I think, Kerberos cannot be forced, Negotiate means: it tries with  
kerberos,

> when it fails, switches to ntlm.

>

> Regards

>

> Peter

>

>

>

>

> "Scott Elgram" <SElgram@verifpoint.com> wrote in message

> news:uo0ESYlyFHA.2372@TK2MSFTNGP10.phx.gbl...

> > Yeup, quite sure.

> > From what I have been reading there are two methods windows can use  
in

> > this instance. The first is NTLM which is what is being used most often

> > and

> > where I think my problem is. NTLM does not allow for authentication  
past

> > single hop and therefore can delegate or do anything fancy like that.

What

> > I

> > need to use is the second method. Kerberos can impersonate, delegate  
and

> > make additional hops. My problem, I think, is that Kerberos is not  
being

> > used but I really don't know enough about it to troubleshoot it and have

> > found very little online about exactly how to set this up.

> > I was using Windows 2k with IIS 5 but because this is all  
experimental

> > for me right now I have upgraded to Windows 2k3 and IIS 6 to see if that

> > makes any difference.

> >

Re: Integrated Authentication with SQL

## microsoft.public.dotnet.framework.aspnet.security: Re: Integrated Authentication with SQL

```
> > -Scott
> >
> > "Peter Jakab" <someone@from.hu> wrote in message
> > news:eRASlZyyFHA.3864@TK2MSFTNGP12.phx.gbl...
> >> Scott, are you sure, that in IIS manager for the application you
disabled
> >> anonymous access?
> >>
> >> (find your application, right click, properties, directory security,
> >> anonymous access and identity control, click edit, and be sure that
> >> anonymous access is unchecked, AND integrated windows authentication is
> >> checked)
> >>
> >> It should work, in case there is just 1 hop!
> >>
> >> Best regards
> >>
> >> Peter
> >>
> >> "Scott Elgram" <SElgram@verifpoint.com> wrote in message
> >> news:ehqT9GfyFHA.3864@TK2MSFTNGP12.phx.gbl...
> >> > Hello,
> >> > I am trying to create a site using integrated windows
authentication
> > > to
> >> > access SQL databases. All the tutorials I have found so far require
> > > that
> >> > both SQL server and IIS reside on the same server. This is a problem
> > > for
> >> > me
> >> > because I need to access multiple SQL servers from the same site so a
> >> > stand
> >> > alone web server would be ideal.
> >> > From what I have been able to gather so far:
> >> > - "Anonymous Access" is unchecked and "Windows Integrated
> >> > Authentication" is checked in IIS
> >> > - The machine running IIS must be set as "trusted for
> >> > delegation"
> >> > in
> >> > active directory.
> >> > - The domain user accounts that will be accessing the
databases
> > > an
> >> > site must not be marked "Account is sensitive and cannot be
delegated".
> >> > - The tags <Identity impersonate="true"> and <Authentication
> >> > mode="windows"> is set in web.config
> >> > - comImpersonationLevel="Delegate" and
> >> > comAuthenticationLevel="PktPrivacy" are set in machine.config
> >> > After all that is set then the connection string
"server=SQLserver;
> >> > Integrated Security=SSPI; Trusted_Connection=YES;
database=SQLdatabase"
> >> > should be able to connect to the SQL database using the clients
> >> > credentials.
> >> > However, I receive the following error:
> >> > -----
> >> > Exception Details: System.Data.SqlClient.SqlException: Login failed
for
> >> > user
> >> > 'NT AUTHORITY\ANONYMOUS LOGON'.
> >> >
```

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```
> >> > Stack Trace:
> >> >
> >> > [SqlException: Login failed for user 'NT AUTHORITY\ANONYMOUS LOGON'.]
> >> >   System.Data.SqlClient.ConnectionPool.GetConnection(Boolean&
> >> >   isInTransaction) +472
> >> >
> >> >
> > >
System.Data.SqlClient.SqlConnectionPoolManager.GetPooledConnection(SqlConnec
> >> > tionString options, Boolean& isInTransaction) +370
> >> >   System.Data.SqlClient.SqlConnection.Open() +383
> >> >   Rules.WebForm1.Page_Load(Object sender, EventArgs e) in
> >> >   d:\inetpub\wwwroot\rules\rules.aspx.cs:47
> >> >   System.Web.UI.Control.OnLoad(EventArgs e) +67
> >> >   System.Web.UI.Control.LoadRecursive() +35
> >> >   System.Web.UI.Page.ProcessRequestMain() +750
> >>
>
>> -----
-
> > --
> >> > -----
> >> >
> >> > Any help in resolving this problem would be greatly appreciated.
> >> >
> >> > Thanks,
> >> >
> >> > --
> >> > -Scott
> >> >
> >> >
> >>
> >>
> >
> >
>
>
```