

RE: IIS (ASP) -> SQLServer Authentication Issue

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 - *Date:* Fri, 05 Jan 2007 06:04:27 GMT
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Hello Tyler,

I understand that you'd like to use IIS Intergration authentication in the intranet, and ASP "impersonates" authencitaed users to access SQL Server on a different machine in the same domain. However, you receive '80004005'error. If I'm off-base, please let me know.

As you know, only kerberos authentication allows double-hops from clients via IIS to SQL Server. Windows NT Challenge/Response does not support double-hop impersonations (meaning that once passed to the IIS server, the same credentials cannot be passed to a back-end server for authentication, for example, when IIS uses Windows NT Challenge/Response, it cannot then authenticate the user against a SQL Server database on another computer by using SQL Integrated security). Please the following article for details:

How IIS authenticates browser clients

<http://support.microsoft.com/default.aspx?scid=kb:en-us:264921>

Per your question, it is possible that IIS uses kerberos authentication and impersonates the domain user to access backend SQL Server. This is also what described in 319723. Though some old KBs mention that ASP/IIS must use Basic Authentication if SQL Server is on a diferent machine, it is not true any more.

INF: Authentication Methods for Connections to SQL Server in Active Server Pages

<http://support.microsoft.com/default.aspx?scid=kb:en-us:247931>

PRB: "Client Unable to Establish Connection" Error Message When Connecting from ASP to SQL Server

<http://support.microsoft.com/default.aspx?scid=kb:en-us:253500>

You may want to start from 319723 which I think you have done. Also, you must use TCP/IP for Kerberos of SQL Server. Named pipes do not support Kerberos delegation. Named pipes use NTLM only.

From the error, "Login failed for user '(null)'" , it seems the your SQL

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Server doesn't have an SPN registered properly. I suggest that you manually add the SPN

```
setspn -A MSSQLSvc/<FQDN of SQL Server>:<port> <Sql Service Account>  
setspn -A MSSQLSvc/<server hostname>:<port> <Sql Service Account>
```

For example:

```
setspn -A MSSQLSvc/sql1.test.com:1433 testdomain\sqlservice  
setspn -A MSSQLSvc/sql1:1433 testdomain\sqlservice
```

You may want to use the following command to see the SPN registered to the sql server startup account.

```
setspn -L <domain name>\<sql server startup account>
```

How to troubleshoot the "Cannot generate SSPI context" error message
<http://support.microsoft.com/kb/811889>

If the issue persists, you may want to enable security event logging and Kerberos event logging on both SQL Server and IIS Server to see more details:

How to troubleshoot Kerberos-related issues in IIS
<http://support.microsoft.com/kb/326985/>

262177 How to enable Kerberos event logging
<http://support.microsoft.com/kb/262177>

If the Internet Explorer client is set to use a proxy server, you must click to select the Bypass Proxy Server for local addresses check box. To verify that the Internet Explorer client is set to use a proxy server, this follow these steps:

- Start Internet Explorer.
- On the Tools menu, click Internet Options, and then click the Connections tab.
- Click LAN Settings. Under Proxy server, verify that the Bypass proxy server for local address check box is checked.

Also, if Anonymous authentication is enabled, IIS will always try to authenticate by using it first, even if other methods are enabled. If Anonymous authentication, Integrated Windows authentication, and Basic authentication are all selected, Integrated Windows authentication takes precedence over Basic authentication, after Anonymous authentication.

More related information

Troubleshooting Kerberos Delegation
<http://www.microsoft.com/downloads/details.aspx?FamilyID=99b0f94f-e28a-4726-bffe-2f64ae2f59a2&displaylang=en>

Download the Kerbray and verify Kerberos tickets from any of the

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associated computers that are being used.

<http://www.microsoft.com/windows2000/techinfo/reskit/tools/existing/kerbtray-o.asp>

If you have any update, please feel free to let's know. Thank you.

Best Regards,

Peter Yang
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