

Re: Usenametoken can't beused inweb services that are invoked bywebcl

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Source: <http://www.derkeiler.com/Newsgroups/microsoft.public.dotnet.security/2006-02/msg00233.html>

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 - *Date:* Sat, 25 Feb 2006 13:08:49 +0000 (UTC)
-

telling from your stacktrace, you still use the built-in username token manager which can only handle windows accounts - you have to register your own in web.config

```
<microsoft.web.services2>  
<security>  
<securityTokenManager  
type=  
"MyUsernameTokenManager, MyUsernameTokenManager"  
xmlns:wss="http://docs.oasis-open.org/wss/2004/01/oasis-200401-wss-wssecurity-secext-1.0.xsd"  
qname="wss:UsernameToken" />  
</security>  
</microsoft.web.services2>
```

Dominick Baier - DevelopMentor
<http://www.leastprivilege.com>

This is my Web service Client. The filename is MathService.aspx. I use web client to invoke my web service. The coding is below:

```
Public Class Math Inherits System.Web.UI.Page Dim obj As New LoginForm  
Public Token As UsernameToken = Nothing Private Sub cmdAdd_Click(ByVal  
sender As System.Object, ByVal e As System.EventArgs) Handles  
cmdAdd.Click
```

```
Dim aa As String Dim bb As String
```

```
aa = "hcti" bb = "ching123"
```

```
Dim proxy As New SimpleMathWse
```

```
Token = New UsernameToken(aa, bb, PasswordOption.SendPlainText)  
proxy.RequestSoapContext.Security.Tokens.Add(Token) Dim iOp1 As  
Integer Dim iOp2 As Integer Dim iResult As Integer
```

```
iOp1 = CInt(txtOperand1.Text) iOp2 = CInt(txtOperand2.Text)
```

Re: Usenametoken can't beused inweb services that are invoked bywebcl

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```
iResult = proxy.Add(iOp1, iOp2) txtResults.Text = iResult.ToString()  
End Sub End Class
```

```
This is my web service file SimpleMath.asmx <WebMethod(> Public  
Function Add(ByVal x As Integer, ByVal y As Integer) As Integer Dim  
tok As UsernameToken =  
WseSecurityHelpers.GetUsernameToken(RequestSoapContext.Current)
```

```
If Not tok.Principal.IsInRole(" Allow") Then Throw New  
Exception("Access Denied") End If Add = x + y End Function
```

This is the WSESecurityHelper file I used in my web service.

```
Public Class WseSecurityHelpers
```

```
Public Shared Function GetUsernameToken(ByVal context As SoapContext)  
As UsernameToken
```

```
If context Is Nothing Then Throw New Exception("Only SOAP requests are  
permitted.") End If
```

```
If context.Security.Tokens.Count = 0 Then Throw New  
SoapException("Missing security token", SoapException.ClientFaultCode)  
Else Dim tok As UsernameToken For Each tok In context.Security.Tokens  
Return tok Next tok Throw New Exception("UsernameToken not supplied")  
End If
```

```
End Function
```

```
End Class
```

```
Public Class MyUsernameTokenManager Inherits UsernameTokenManager
```

```
Protected Overrides Function AuthenticateToken(ByVal token As  
UsernameToken) As String
```

```
Dim roles As New ArrayList Dim result As Integer
```

```
Dim myConnection As SqlConnection
```

```
' Grab encrypted connection string from web.config myConnection = New  
SqlConnection(ConfigurationSettings.AppSettings("cnn"))
```

```
myConnection.Open()
```

```
Dim sqlComm As New SqlCommand sqlComm.Connection = myConnection
```

```
sqlComm.CommandText = "SELECT ID FROM WSUser WHERE Username = '" &  
token.Username & "' and Password = '" & token.Password & "'" result =  
CInt(sqlComm.ExecuteScalar())
```

Re: Usenametoken can't beused inweb services that are invoked bywebcl

result = 1

If result > 0 Then

roles.Add("Allow") token.Principal = New GenericPrincipal(New
GenericIdentity(token.Username), roles.ToArray(GetType(String)))

Else MyBase.AuthenticateToken(token)

End If

Return token.Password

End Function 'AuthenticateToken End Class

I got advice from Mr Bromberg on the SQL commands in my post
previously and have coded it. Is it correct? Then i use web client to
invoke the web service. But I always get this error as stated below.
Please do help me.I really stuck with this problem for 2 months. I
tried by using windows application and without using database and it
works fine. But my boss wants to use database n use web client.
How???????? I'm going to go crazy. Everyday I do for 2 months n read
and ask in forum but no solution to my error. Please help needed
urgently before I go crazy and have to be admitted in a mental
hospital.

Server Error in '/UserValidation' Application.

Microsoft.Web.Services2.Security.SecurityFault: The security token
could not be authenticated or authorized at
Microsoft.Web.Services2.Security.Tokens.UsernameTokenManager.OnLogonUs
erFailed(UsernameToken token) at
Microsoft.Web.Services2.Security.Tokens.UsernameTokenManager.LogonUser
(UsernameToken token) at
Microsoft.Web.Services2.Security.Tokens.UsernameTokenManager.Authentic
ateToken(UsernameToken token) at
Microsoft.Web.Services2.Security.Tokens.UsernameTokenManager.VerifyTok
en(SecurityToken securityToken) at
Microsoft.Web.Services2.Security.Tokens.SecurityTokenManager.LoadXmlSe
curityToken(XmlElement element) at
Microsoft.Web.Services2.Security.Tokens.SecurityTokenManager.GetTokenF
romXml(XmlElement element) at
Microsoft.Web.Services2.Security.Security.LoadToken(XmlElement
element, SecurityConfiguration configuration, Int32& tokenCount) at
Microsoft.Web.Services2.Security.Security.LoadXml(XmlElement element)
at
Microsoft.Web.Services2.Security.SecurityInputFilter.ProcessMessage(So
apEnvelope envelope) at
Microsoft.Web.Services2.Pipeline.ProcessInputMessage(SoapEnvelope
envelope) at

Re: Usenametoken can't beused inweb services that are invoked bywebcl

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Microsoft.Web.Services2.WebServicesExtension.BeforeDeserializeServer(SoapServerMessage message) Description: An unhandled exception occurred during the execution of the current web request. Please review the stack trace for more information about the error and where it originated in the code.

Exception Details: System.Web.Services.Protocols.SoapHeaderException: Microsoft.Web.Services2.Security.SecurityFault: The security token could not be authenticated or authorized at Microsoft.Web.Services2.Security.Tokens.UsernameTokenManager.OnLogonUserFailed(UsernameToken token) at Microsoft.Web.Services2.Security.Tokens.UsernameTokenManager.LogonUser(UsernameToken token) at Microsoft.Web.Services2.Security.Tokens.UsernameTokenManager.AuthenticateToken(UsernameToken token) at Microsoft.Web.Services2.Security.Tokens.UsernameTokenManager.VerifyToken(SecurityToken securityToken) at Microsoft.Web.Services2.Security.Tokens.SecurityTokenManager.LoadXmlSecurityToken(XmlElement element) at Microsoft.Web.Services2.Security.Tokens.SecurityTokenManager.GetTokenFromXml(XmlElement element) at Microsoft.Web.Services2.Security.Security.LoadToken(XmlElement element, SecurityConfiguration configuration, Int32& tokenCount) at Microsoft.Web.Services2.Security.Security.LoadXml(XmlElement element) at Microsoft.Web.Services2.Security.SecurityInputFilter.ProcessMessage(SoapEnvelope envelope) at Microsoft.Web.Services2.Pipeline.ProcessInputMessage(SoapEnvelope envelope) at Microsoft.Web.Services2.WebServicesExtension.BeforeDeserializeServer(SoapServerMessage message)

Source Error:

Line 40:

<System.Web.Services.Protocols.SoapDocumentMethodAttribute("http://tempuri.org/Math/SimpleMath/Add", RequestNamespace:="http://tempuri.org/Math/SimpleMath, ResponseNamespace:="http://tempuri.org/Math/SimpleMath, Use:=System.Web.Services.Description.SoapBindingUse.Literal, ParameterStyle:=System.Web.Services.Protocols.SoapParameterStyle.Wrapped)> Line 41: Public Function Add(ByVal x As Integer, ByVal y As Integer) As Integer Line 42: Dim results() As Object = Me.Invoke("Add", New Object() {x, y}) Line 43: Return CType(results(0),Integer) Line 44: End Function

Source File: C:\Inetpub\wwwroot\UserValidation\WebReferences\localhost\Reference.vb Line: 42

Stack Trace:

Re: Usenamtoken can't beused inweb services that are invoked bywebcl

[SoapHeaderException: Microsoft.Web.Services2.Security.SecurityFault: The security token could not be authenticated or authorized at Microsoft.Web.Services2.Security.Tokens.UsernameTokenManager.OnLogonUserFailed(UsernameToken token) at Microsoft.Web.Services2.Security.Tokens.UsernameTokenManager.LogonUser(UsernameToken token) at Microsoft.Web.Services2.Security.Tokens.UsernameTokenManager.AuthenticateToken(UsernameToken token) at Microsoft.Web.Services2.Security.Tokens.UsernameTokenManager.VerifyToken(SecurityToken securityToken) at Microsoft.Web.Services2.Security.Tokens.SecurityTokenManager.LoadXmlSecurityToken(XmlElement element) at Microsoft.Web.Services2.Security.Tokens.SecurityTokenManager.GetTokenFromXml(XmlElement element) at Microsoft.Web.Services2.Security.Security.LoadToken(XmlElement element, SecurityConfiguration configuration, Int32& tokenCount) at Microsoft.Web.Services2.Security.Security.LoadXml(XmlElement element) at Microsoft.Web.Services2.Security.SecurityInputFilter.ProcessMessage(SoapEnvelope envelope) at Microsoft.Web.Services2.Pipeline.ProcessInputMessage(SoapEnvelope envelope) at Microsoft.Web.Services2.WebServicesExtension.BeforeDeserializeServer(SoapServerMessage message)]
System.Web.Services.Protocols.SoapHttpClientProtocol.ReadResponse(SoapClientMessage message, WebResponse response, Stream responseStream, Boolean asyncCall)
System.Web.Services.Protocols.SoapHttpClientProtocol.Invoke(String methodName, Object[] parameters)
UserValidation.localhost.SimpleMathWse.Add(Int32 x, Int32 y) in C:\inetpub\wwwroot\UserValidation\WebReferences\localhost\Reference.vb:42
UserValidation.Math.cmdAdd_Click(Object sender, EventArgs e) in C:\inetpub\wwwroot\UserValidation\MathService.aspx.vb:74
System.Web.UI.WebControls.Button.OnClick(EventArgs e)
System.Web.UI.WebControls.Button.System.Web.UI.IPostBackEventHandler.RaisePostBackEvent(String eventArgument)
System.Web.UI.Page.RaisePostBackEvent(IPostBackEventHandler sourceControl, String eventArgument)
System.Web.UI.Page.RaisePostBackEvent(NameValueCollection postData)
System.Web.UI.Page.ProcessRequestMain()

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