

## Re: Impersonation headache

**Source:**

<http://www.derkeiler.com/Newsgroups/microsoft.public.dotnet.framework.aspnet.security/2004-10/0260.html>

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**From:** Joe Kaplan \((MVP - ADSI)\) ([joseph.e.kaplan\\_at\\_remove\\_this.accenture.com](mailto:joseph.e.kaplan_at_remove_this.accenture.com))

**Date:** 10/25/04

Date: Mon, 25 Oct 2004 16:06:28 -0500

I'm not a great expert on delegation, but you can enable delegation on a per user basis in AD. The other trick you have to be careful with is that delegation requires Kerberos, so you need to make sure your authentication is Kerberos end to end. If it fails over to NTLM, then delegation will suddenly break. Sometimes this will manifest itself as intermittent problems, where the user fails on one workstation, but works on another or a different network.

Joe K.

"James Pemberton" <[james.pemberton@devro-casings.com](mailto:james.pemberton@devro-casings.com)> wrote in message news:0lwt45suEHA.2016@TK2MSFTNGP15.phx.gbl...

> *Thanks for the site.*

>

> *I've read quite a bit about delegates, but I have one more question. Do*

> *you have to setup your entire network, hardware and users, to utilize*

> *delegation? Or can you just set up those users or servers that you think*

> *will need to access information remotely?*

>

>

> *"Joe Kaplan (MVP - ADSI)" <[joseph.e.kaplan@remove\\_this.accenture.com](mailto:joseph.e.kaplan@remove_this.accenture.com)> wrote*

> *in message news:OOPjlupuEHA.272@TK2MSFTNGP15.phx.gbl...*

>> *These both sound like double-hop delegation issues. The fact that it*

>> *works when you specify specific credentials in your impersonate tag but*

>> *doesn't work when you use Window Integrated Authentication (WIA) and try*

>> *to access resources on a different machine than the IIS box suggests*

>> *this. The impersonation token that WIA creates cannot hop to another*

>> *machine on the network (like your file server or AD) unless Kerberos*

>> *delegation has been enabled and working.*

>>

>> *I'd suggest you read up on that first and then come back here if you*

>> *can't get it to work or need a different approach.*

>>

>> *<http://support.microsoft.com/default.aspx?scid=kb;en-us;810572>*

>>

>> *You'll find even more links with a little searching.*

>>

Re: Impersonation headache

>> Cheers,  
>>  
>> Joe K.  
>>  
>> "James Pemberton" <james.pemberton@devro-casings.com> wrote in message  
>> news:eD9ilYpuEHA.2172@TK2MSFTNGP14.phx.gbl...  
>>> I have been fighting with impersonation for quite sometime now and now  
>>> matter what I have tried it just won't work.  
>>>  
>>> I am trying to get information on two items:  
>>>  
>>> 1) I'd like to retrieve a file listing from a directory on our file  
>>> server.  
>>>  
>>> As with most cases I have read about, it works fine on my development  
>>> PC, XP OS, but when ran off of the web server, I receive <error: an  
>>> exception of type: {System.UnauthorizedAccessException} occurred>.  
>>>  
>>> The only way I can get it to work is to set impersonation=true and set  
>>> the username and password as out system administrator. I did try to set  
>>> the user name and password as an AD user we created with full access to  
>>> the directory, but to no avail.  
>>>  
>>> On IIS I have just Integrated Windows Authentication checked.  
>>>  
>>> Web.config is as follows: <identity impersonate="true" />  
>>>  
>>> Code:  
>>> Private Sub LoadFiles()  
>>>  
>>> Dim impersonationContext As WindowsImpersonationContext  
>>>  
>>> Dim currentWindowsIdentity As WindowsIdentity  
>>>  
>>> currentWindowsIdentity = CType(WindowsIdentity.GetCurrent,  
>>> WindowsIdentity)  
>>>  
>>> impersonationContext = currentWindowsIdentity.Impersonate()  
>>>  
>>> Dim dt As DataTable = New DataTable  
>>>  
>>> Dim dr As DataRow  
>>>  
>>> dt.Columns.Add("linkname")  
>>>  
>>> dt.Columns.Add("textname")  
>>>  
>>> Dim di As System.IO.DirectoryInfo  
>>>  
>>> 'Dim DirectoryDefault As String =  
>>> "\\ussfs01\private\Manufacturing\ProductRequest\" & intRequestNbr & "\"

```
>>>
>>> Dim DirectoryDefault As String = "\\ussfs01\ProductRequest\" &
>>> intRequestNbr & "\"
>>>
>>> di = New System.IO.DirectoryInfo(DirectoryDefault)
>>>
>>> If di.Exists Then
>>>
>>> For Each filename As System.IO.FileInfo In di.GetFiles()
>>>
>>> dr = dt.NewRow()
>>>
>>> dr("linkname") = DirectoryDefault & filename.Name
>>>
>>> dr("textname") = filename.Name
>>>
>>> dt.Rows.Add(dr)
>>>
>>> Next
>>>
>>> Dim dv As DataView = New DataView(dt)
>>>
>>> dlAttachments.DataSource = dv
>>>
>>> dlAttachments.DataBind()
>>>
>>> dlAttachments.Visible = True
>>>
>>> End If
>>>
>>> impersonationContext.Undo()
>>>
>>> End Sub
>>>
>>>
>>> 2) In the same program I have been trying to retrieve the users
>>> fullname, displayname, or given name from our AD. Once again this works
>>> fine on my Development PC, but on the web server I can't even retrieve
>>> those attributes.
>>>
>>> I have tried the following code to no avail:
>>>
>>> Dim userkey As String = WindowsIdentity.GetCurrent.Name.Substring(3)
>>>
>>> Dim dse As New DirectoryEntry("LDAP://US")
>>>
>>> Dim dsearch As DirectorySearcher = New DirectorySearcher(dse)
>>>
>>> dsearch.Filter = "(&(objectclass=user)(cn=" & userkey & "))"
>>>
>>> dsearch.PropertiesToLoad.Add("displayname")
```

```
>>>  
>>> Dim sr As SearchResult = dsearch.FindOne  
>>>  
>>> If Not (sr Is Nothing) Then  
>>>  
>>> Dim rp As ResultPropertyCollection = sr.Properties  
>>>  
>>> UserName = rp.Item("displayname").Item(0)  
>>>  
>>> Else  
>>>  
>>> UserName = Nothing  
>>>  
>>> End If  
>>>  
>>> I have tried the following code to no avail:  
>>>  
>>> Any help would be greatly appreciated!  
>>>  
>>> James Pemberton  
>>>  
>>>  
>>  
>  
>
```