

RE: IIS Virtual Directory Create Failure :(

Source:

<http://www.tech-archive.net/Archive/DotNet/microsoft.public.dotnet.framework.aspnet.webservices/2004-11/0374.htm>

From: Dan Rogers (*danro_at_microsoft.com*)

Date: 11/18/04

Date: Thu, 18 Nov 2004 22:52:13 GMT

Ahhh. I think this is a matter of the later OS being more secure. Code access security is going to do a lot to prevent internet hosted logic from doing things that require admin permissions. You want to think VERY carefully about undoing this protection. Since .NET 1.1 was shipped as a part of Windows Server 2003, I suspect that the policy expressions that shipped with this version were more restrictive. If this is the case, no amount of impersonation is going to fix this – since the call is originating from a web service and thus is sand boxed. You'd have to override code access security for these specific operations. I would still add logic to such a service to make sure that the caller is a member of a group the caller recognizes as an admin, since once you over-ride the sandbox security, no other protections would be keeping a non-admin from making a call that if overdone could flood your box and disable your server.

I hope this helps

Dan

>Thread-Topic: IIS Virtual Directory Create Failure :(
>thread-index: AcTMurvE7+6ff34BSxC8pHYgFuZQvQ==
>X-WBNR-Posting-Host: 63.162.177.130
>From: =?Utf-8?B?RXNraW1v?= <Eskimo@discussions.microsoft.com>
>References: <E288D499-3B3F-4B1D-BC17-D3F32A78249C@microsoft.com>
<BsZ7jyDzEHA.1184@cpmsftngxa10.phx.gbl>
>Subject: RE: IIS Virtual Directory Create Failure :(
>Date: Wed, 17 Nov 2004 07:33:05 -0800
>Lines: 146
>Message-ID: <E07C3395-6C1C-47C1-AFB4-39473F4FEB74@microsoft.com>
>MIME-Version: 1.0
>Content-Type: text/plain;
> charset="Utf-8"
>Content-Transfer-Encoding: 7bit
>X-Newsreader: Microsoft CDO for Windows 2000
>Content-Class: urn:content-classes:message
>Importance: normal
>Priority: normal
>X-MimeOLE: Produced By Microsoft MimeOLE V6.00.3790.0

microsoft.public.dotnet.framework.aspnet.webservices: RE: IIS Virtual Directory Create Failure :(

>Newsgroups: microsoft.public.dotnet.framework.aspnet.webservices
>NNTP-Posting-Host: TK2MSFTNGXA03.phx.gbl 10.40.1.29
>Path: cpmsftngxa10.phx.gbl!TK2MSFTNGXA01.phx.gbl!TK2MSFTNGXA03.phx.gbl
>Xref: cpmsftngxa10.phx.gbl

microsoft.public.dotnet.framework.aspnet.webservices:26666

>X-Tomcat-NG: microsoft.public.dotnet.framework.aspnet.webservices

>

>Dan,

>

>Thanks for the suggestion, however, I used the following snippet...that
>didn't work even with an administrator logged in...impersonation didn't
work

>either...

>

>I think it's IIS -> ADSI where the permission problem is on the server.

I'm

>on xp pro and it works great!

>

>When I log into the server 2003 box as a member of the admin group it
fails

>spectacularly with "Access is Denied."

>

> System.Security.Principal.WindowsImpersonationContext

>impersonationContext;

> impersonationContext =

>((System.Security.Principal.WindowsIdentity)User.Identity).Impersonate();

>

><call web service method>

>

> impersonationContext.Undo();

>

>"Dan Rogers" wrote:

>

>> Hi,

>>

>> If I understand you, you're trying to make IIS hosted managed code in a
web

>> service dynamically define new VROOTS on the server that the web service
is

>> on, and you are getting an access denied error.

>>

>> The managed code for your service is going to need to have permissions
to

>> do these administrator operations, and thus either be impersonating an

>> administrator account (not a good idea if you ask me) or running in the

>> security context of an administrator (e.g. being called by and

>> administrator and assuming the administrators permissions). The latter

is

>> possible by placing the calls in the administrator's security context.

>> This is done by setting the credential cache in the proxy to the default

>> identity (the calling user).

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microsoft.public.dotnet.framework.aspnet.webservices: RE: IIS Virtual Directory Create Failure :(

>>
>> *I hope this helps*
>>
>> *Dan Rogers*
>> *Microsoft Corporation*
>> -----
>> >Thread-Topic: *IIS Virtual Directory Create Failure :(*
>> >thread-index: *AcTCxfBi2xjrBaTfSM2bHVVte4BerQ==*
>> >X-WBNR-Posting-Host: *63.162.177.130*
>> >From: *=?Utf-8?B?RXNraW1v?= <Eskimo@discussions.microsoft.com>*
>> >Subject: *IIS Virtual Directory Create Failure :(*
>> >Date: *Thu, 4 Nov 2004 15:28:07 -0800*
>> >Lines: *74*
>> >Message-ID: *<E288D499-3B3F-4B1D-BC17-D3F32A78249C@microsoft.com>*
>> >MIME-Version: *1.0*
>> >Content-Type: *text/plain;*
>> > charset=*"Utf-8"*
>> >Content-Transfer-Encoding: *7bit*
>> >X-Newsreader: *Microsoft CDO for Windows 2000*
>> >Content-Class: *urn:content-classes:message*
>> >Importance: *normal*
>> >Priority: *normal*
>> >X-MimeOLE: *Produced By Microsoft MimeOLE V6.00.3790.0*
>> >Newsgroups: *microsoft.public.dotnet.framework.aspnet.webservices*
>> >NNTP-Posting-Host: *TK2MSFTNGXA03.phx.gbl 10.40.1.29*
>> >Path: *cpmsftngxa10.phx.gbl!TK2MSFTNGXA03.phx.gbl*
>> >Xref: *cpmsftngxa10.phx.gbl*
>> *microsoft.public.dotnet.framework.aspnet.webservices:26386*
>> >X-Tomcat-NG: *microsoft.public.dotnet.framework.aspnet.webservices*
>> >
>> >
>> >*System.UnauthorizedAccessException: Access is denied.*
>> > *at System.DirectoryServices.Interop.IAds.SetInfo()*
>> > *at System.DirectoryServices.DirectoryEntry.CommitChanges()*
>> > *at CreateVirtualDirectories.Dal.CreateWebVirtualDirectory.Create*
>> >
>> >...
>> >
>> > *tried on the local development box and it had issues like this*
>> >
>> > *until I gave permissions like described in Article ID 329986, scroll*
down,
>> > *Method A.*
>> >
>> > *It is a double hop as I did the test at the bottom in the Quick Test*
>> *section.*
>> >
>> >
>> >
>> > *Code snippets:*
>> >

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```
>> >Web.config for web service having the error shown above...
>> >
>> ><identity impersonate="true" />
>> >...
>> >
>> > SCHEMA= "IISWebVirtualDir";
>> > mRootSubPath = "/W3SVC/1/Root";
>> >
>> >...
>> >
>> > DirectoryEntry deRoot= new DirectoryEntry("IIS://" +
>> "localhost"
>> >+ mRootSubPath,winAcctId,winAcctPwd,AuthenticationTypes.Secure);
>> >
>> >...
>> >
>> > if (Directory.Exists("c:\temp\Eskimo\") == false)
>> > {
>> >
>> > Directory.CreateDirectory("c:\temp\Eskimo\");
>> >
>> > }
>> >
>> > deRoot.RefreshCache();
>> >
>> > DirectoryEntry deNewVDir =
>> >deRoot.Children.Add("Eskimo",mSchema);
>> >
>> >
deNewVDir.Properties["Path"].Insert(0,"c:\temp\Eskimo\");
>> >
>> >...
>> > deNewVDir.Properties["AccessRead"][0] = true;
>> > deNewVDir.Properties["AccessWrite"][0] = true;
>> > deNewVDir.Properties["AccessExecute"][0] = true;
>> > deNewVDir.Properties["AuthAnonymous"][0] = false;
>> > deNewVDir.Properties["AuthBasic"][0] = false;
>> > deNewVDir.Properties["AuthNTLM"][0] = true;
>> > deNewVDir.Properties["ContentIndexed"][0] = false;
>> > deNewVDir.Properties["EnableDirBrowsing"][0] = true;
>> > ...
>> > deNewVDir.Invoke("AppCreate",true);
>> >
>> > deNewVDir.CommitChanges();
>> > deRoot.CommitChanges();
>> >
>> > deNewVDir.Close();
>> >
>> > deRoot.Close();
>> >...
>> >
```

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>> >Now: in a windows application it works great! I have a DLL project and
a
>> >windows app test project and the web service accessing the DLL project.
>> >In a web service I get the error listed above... :(
>> >
>> >--
>> >tym, Eskimo
>> >
>>
>>
>>
>