

Re: How to redirect output of shell command using WMI

Source:

<http://www.tech-archive.net/Archive/Windows/microsoft.public.windows.server.scripting/2004-04/0596.html>

From: Stivie S. (*stefan.suesser_at_computacenter.com*)

Date: 04/29/04

Date: Thu, 29 Apr 2004 01:41:04 -0700

Hi Jagdish,

you encounter a strange problem that is indeed security related, but "by design". When you have a WMI script that needs access to the network, the script will run fine when you run it under your credentials from a command prompt. It will not work when you run it remotely! In short, this problem arises because WMI scripts can only make one network "hop", meaning that a script run from your local machine can make a connection to the network without any problem. But, when running remotely, you already have two hops: your machine connects to the remote machine to run the script, and the remote machine wants to access the network – this is not supported by default. If your machines are members of an Active Directory domain, you can work around this problem by using delegation, meaning that you trust the computer account of the remote machine for delegation, a configuration that is set on the computer object in AD.

There is a nice article about this behaviour, which you can access here:

http://msdn.microsoft.com/library/default.asp?url=/library/en-us/wmisdk/wmi/connecting_to_a_3rd_computer_delega

----- Jagdish S. Khedekar wrote: -----

Hi Al,

Thanks for your elaborate response.

But this the script given will not work for me, as the "File and Printer Sharing for Microsoft Networks" service is disabled on the remote machine.

Because of this, I cannot use shares like "d\$" for the remote machine.

But I can very well use the share on my machine from the remote machine.

Also one more point I would mention here is that, when I run the command actually from the remote machine's command prompt, it's working fine and I could get the output on my machine's share.

Please let me know if anybody has any inputs on this.

Thanks and best regards,
Jagdish.

microsoft.public.windows.server.scripting: Re: How to redirect output of shell command using WMI

"Al Dunbar [MS-MVP]" <alan-no-drub-spam@hotmail.com> wrote in message news:#My#qDVLEHA.2624@TK2MSFTNGP09.phx.gbl...

>> "Jagdish S. Khedekar" <jagdish@jopasana.com> wrote in message > news:eowrTfTLEHA.2400@tk2msftngp13.phx.gbl...

>> Hi Group,

>>>> I want to redirect the output of command executed on remote machine.

>> When I redirect the output on the share on same remote machine, its > working

>> with the code given below.

>> But its not working for the share on my machine.

>> It should not be security credentials problem, becuae I am 'local admin'

> on

>> the remote machine.

>>>> Please help me out in this problem.

>> I am not positive on this, and have not tried this kind of thing just yet, > but I suspect that it may be a permissions/credentials problem.

>> When you use "{impersonationLevel=impersonate}!", I do not believe that a > process actually runs on the remote system under your credentials. Rather, I

> think that whatever service is running on the remote machine runs under the

> context of the local admin account, which, by definition, has no privs

> outside of that one machine. It uses your credentials only to determine if

> your account has the permissions required to run WMI script on its local

> machine from a remote machine.

>> However things work under the hood, I suspect that this restriction is > either by design for security purposes, or that it is impossible to do > otherwise. Note that it is one thing for your local wmi script to tell the > remote computer who you are, but quite another to enable it to access > resources that it has no access to, without passing more than just some kind

> of token of your identity. Note that this is how NTFS security works: the > file system can provide access to NTFS folders and files based on your group

> membership without its having to know your password.

>> You could try using runas explicitly in your script, however, this would > open up a number of potential security issues that could be difficult to get

> a good handle on.

>> Conversely, you could revert back to the version that writes the output to a

> file on the target computer, and later run a script to pull this file back > to your computer.

>> Perhaps even simpler would be to run a script like this on your computer:

>> @echo off

> set remotecomputer=%1

> set remotepath=D\$\oracle\ora92\bin"

>>C:\remotedirs\%1.txt dir \\%remotecomputer%\%remotepath%

>> and then type commands such as:

>> remlist jupiter

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> remlist saturn
>> or put this in a batch file with the list of computer names in another:
>> @echo off
> for /f %%F in (complist.txt) do call remlist %%F
>> /Al
>>> Thanks and best regards,
>> Jagdish.
>>>> Code Snippet :
>>
-----
> --
>> -----
>> strCompleteCommand = "cmd.exe /c " & "" & "dir" & " > " &>> "\\compname\sharename\out.txt" &
""
>>>> Set objProcess = GetObject("winmgmts:" _
>>& "{impersonationLevel=impersonate}!\\" & RemoteComputer &>> "\root\cimv2:Win32_Process")
>>>> Set objWMIService = GetObject("winmgmts:" _
>>& "{impersonationLevel=impersonate}!\\" & StrComputer &
"\root\cimv2")
>>>> Set objStartup = objWMIService.Get("Win32_ProcessStartup")
>>>> Set objConfig = objStartup.SpawnInstance objConfig.ShowWindow =
>> HIDDEN_WINDOW
>>>> intError = objProcess.Create(strCompleteCommand, "D:\oracle\ora92\bin",
>> objConfig, intProcessId)
>>
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> --
>> -----
>>>>>>
```