Some Tools

Enable remote WMI support in Windows 10

Version	Date	Diffusion
1.0 EN	2020/09/08	Public

1. OVERVIEW

Remote WMI is disable by default in windows 10.
Many steps are needed to read or write WMI settings from a remote computer.
On the remote computer you need to :
- ✓ Set Actual Network to Private
- ✓ Enable File & Print Sharing
- ✓ Enable Firewall WMI
- ✓ Disable TokenFilterPolicy

2. SCRIPTS

All the scripts below must be launch "As Administrator" on the remote computer.
The scripts are provided ONLY for testing WMI remote access.

1_Actual_Network_as_Private.cmd   _ ⊡ ✕

```
pushd %~dp0
CLS
@Echo .
@Echo    Set Actual Network to "Private"
powershell -executionpolicy remotesigned -file Private.ps1
@Echo off
Pause
```

with

Private.ps1   _ ⊡ ✕

```
$Interface = Get-NetConnectionProfile | Select-Object -ExpandProperty InterfaceIndex
Set-NetConnectionProfile -InterfaceIndex $Interface -NetworkCategory Private
```

2_File_Print_Sharing_Enable.cmd   _ ⊡ ✕

```
pushd %~dp0
CLS
@Echo.
@Echo    ENABLE File And Printer Sharing
@Echo    "@FirewallAPI.dll,-28502" is "File And Printer Sharing" for non-english language
netsh advfirewall firewall set rule group="@FirewallAPI.dll,-28502" new enable=Yes
@Echo off
pause
```

3_Set_Firewall_WMI_Enable.cmd _ ⤢ ✕

```
pushd %~dp0
CLS
@Echo.
@Echo    ENABLE windows management instrumentation (wmi)
@Echo    "@FirewallAPI.dll,-34251" is "windows management instrumentation (wmi)"
netsh advfirewall firewall set rule group="@FirewallAPI.dll,-34251" new enable=yes
@Echo off
pause
```
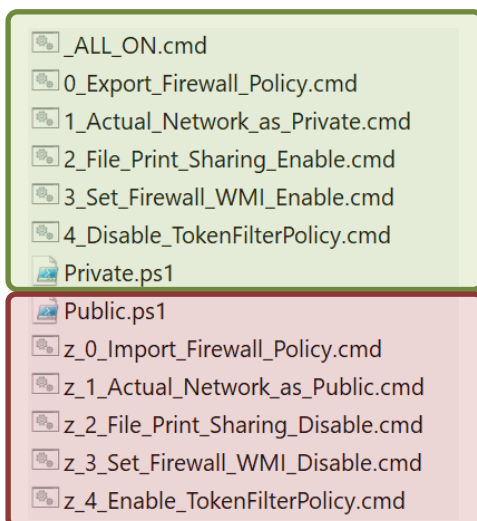
4_Disable_TokenFilterPolicy.cmd _ ⤢ ✕

```
pushd %~dp0
CLS
@Echo.
@Echo    "Disable UAC remote restrictions"
reg add HKLM\SOFTWARE\Microsoft\Windows\CurrentVersion\Policies\system /v
LocalAccountTokenFilterPolicy /t REG_DWORD /d 1 /f
@Echo off
pause
```

3. DOWNLOAD

All the CMD and PS1 scripts can be downloaded here : Remote_WMI_Script.zip

In this zip file you will find scripts to **ENABLE Remote WMI** or **DISABLE (revert changes)**

```
_ALL_ON.cmd
0_Export_Firewall_Policy.cmd
1_Actual_Network_as_Private.cmd
2_File_Print_Sharing_Enable.cmd
3_Set_Firewall_WMI_Enable.cmd
4_Disable_TokenFilterPolicy.cmd
Private.ps1
```

```
Public.ps1
z_0_Import_Firewall_Policy.cmd
z_1_Actual_Network_as_Public.cmd
z_2_File_Print_Sharing_Disable.cmd
z_3_Set_Firewall_WMI_Disable.cmd
z_4_Enable_TokenFilterPolicy.cmd
```

4. TEST SCRIPT

Change values in `'define variables` to match your configuration.

```vbscript
On Error Resume Next
Dim objSWbemLocator, objWMIService, objItem, colItems, strComputer, strUserName, strPassword

'define variables
strComputer = "M90n-1"     'computer name or computer's IP address
strUserName = "Admin"
strPassword = "xxxxxx"

'get the locator object
Set objSWbemLocator = CreateObject("WbemScripting.SWbemLocator")

'get the service object from the remote server
Set objWMIService = objSWbemLocator.ConnectServer(strComputer, "root\CIMV2", strUserName, strPassword)
If Err.Number <> 0 Then
    WScript.Echo "Unable to connect to " & strComputer & ": " & Hex(Err.Number) & "."
    WScript.Quit
End If

objWMIService.Security_.ImpersonationLevel = 3
objWMIService.Security_.AuthenticationLevel = 6

'executes a WQL query
Set colItems = objWMIService.ExecQuery("Select * from Win32_ComputerSystem")
For Each objComputer in colItems
    strResult =             "System Name         : " & objComputer.Name & vbcrlf
    strResult = strResult & "System Manufacturer : " & objComputer.Manufacturer & vbcrlf
    strResult = strResult & "System Model        : " & objComputer.Model & vbcrlf
Next

Set colSettings = objWMIService.ExecQuery ("Select * from Win32_BIOS")
For Each objBIOS in colSettings
    strResult = strResult & "Serial Number       : " & objBIOS.SerialNumber & vbcrlf
    strResult = strResult & "BIOS Version        : " & objBIOS.SMBIOSBIOSVersion
Next
WScript.Echo strResult
```
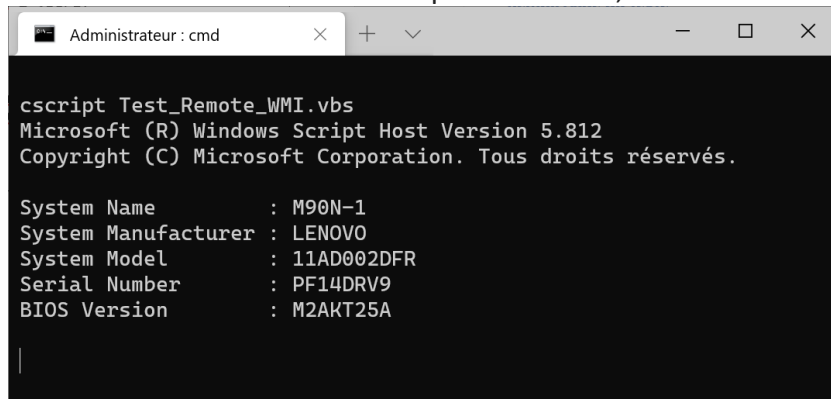
Copy the script in a notepad file and save as **"Test_Remote_WMI.vbs"**

When launch in Command Prompt "As Admin", the result should be :

5. INFORMATION

5.1. VERSION HISTORY

Version	Date	Comment
1.0	2020/09/08	Initial version

5.2. CONTACT

Feel free to contact me for Help, Support, ideas for improvement or additional development.

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