

REPORT S7/L2

Obiettivo: Utilizzare Metasploit per sfruttare la vulnerabilità relativa a Telnet con il modulo auxiliary telnet_version sulla macchina Metasploitable.

SVOLGIMENTO

Imposto gli indirizzi IP delle VM Metasploitable e Kali-Linux come richiesto dalla traccia.

Kali-Linux: IP 192.168.1.25

Metasploitable: IP 192.168.1.40

```
msfadmin@metasploitable:~$ sudo ifconfig eth0 192.168.1.40
[sudo] password for msfadmin:
msfadmin@metasploitable:~$ ifconfig
eth0      Link encap:Ethernet  HWaddr 08:00:27:65:ec:5e
          inet addr:192.168.1.40  Bcast:192.168.1.255  Mask:255.255.255.0
          inet6 addr: fd00::a00:27ff:fe65:ec5e/64  Scope:Global
          inet6 addr: fe80::a00:27ff:fe65:ec5e/64  Scope:Link
          UP BROADCAST RUNNING MULTICAST  MTU:1500  Metric:1
          RX packets:67627 errors:0 dropped:0 overruns:0 frame:0
          TX packets:2032 errors:0 dropped:0 overruns:0 carrier:0
          collisions:0 txqueuelen:1000
          RX bytes:4638020 (4.4 MB)  TX bytes:422079 (412.1 KB)
          Base address:0xd020 Memory:f0200000-f0220000
```

```
(kali㉿kali)-[~]
$ sudo ip addr add 192.168.1.25/24 dev eth0
```

```
(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 08:00:27:ad:25:87 brd ff:ff:ff:ff:ff:ff
    inet 192.168.1.100/24 brd 192.168.1.255 scope global noprefixroute eth0
        valid_lft forever preferred_lft forever
    inet 192.168.1.25/32 scope global eth0
        valid_lft forever preferred_lft forever
    inet 192.168.1.176/24 brd 192.168.1.255 scope global secondary dynamic noprefixroute eth0
        valid_lft 78853sec preferred_lft 78853sec
    inet 192.168.1.25/24 scope global secondary eth0
        valid_lft forever preferred_lft forever
    inet6 fd00::f2c6:8c65:24d1:ae5e/64 scope global dynamic noprefixroute
        valid_lft 7189sec preferred_lft 3589sec
    inet6 fe80::dc1d:514c:3a1d:89f5/64 scope link noprefixroute
        valid_lft forever preferred_lft forever
```

Verifico la connessione tra le macchine facendo un ping.

```
(kali㉿kali)-[~]
$ ping 192.168.1.40
PING 192.168.1.40 (192.168.1.40) 56(84) bytes of data.
64 bytes from 192.168.1.40: icmp_seq=1 ttl=64 time=19.0 ms
64 bytes from 192.168.1.40: icmp_seq=2 ttl=64 time=43.8 ms
64 bytes from 192.168.1.40: icmp_seq=3 ttl=64 time=1.59 ms
64 bytes from 192.168.1.40: icmp_seq=4 ttl=64 time=1.34 ms
64 bytes from 192.168.1.40: icmp_seq=5 ttl=64 time=26.3 ms
64 bytes from 192.168.1.40: icmp_seq=6 ttl=64 time=23.3 ms
^C
— 192.168.1.40 ping statistics —
6 packets transmitted, 6 received, 0% packet loss, time 5012ms
rtt min/avg/max/mdev = 1.336/19.213/43.778/14.723 ms
```

```
msfadmin@metasploitable:~$ ping 192.168.1.25
PING 192.168.1.25 (192.168.1.25) 56(84) bytes of data.
64 bytes from 192.168.1.25: icmp_seq=1 ttl=64 time=3.37 ms
64 bytes from 192.168.1.25: icmp_seq=2 ttl=64 time=1.40 ms
64 bytes from 192.168.1.25: icmp_seq=3 ttl=64 time=0.714 ms
64 bytes from 192.168.1.25: icmp_seq=4 ttl=64 time=0.994 ms

--- 192.168.1.25 ping statistics ---
4 packets transmitted, 4 received, 0% packet loss, time 3001ms
rtt min/avg/max/mdev = 0.714/1.621/3.376/1.042 ms
msfadmin@metasploitable:~$
```

Eseguo una scansione con il comando *nmap* per verificare che la porta 23, riservata al servizio telnet, sia aperta e libera.

```
(kali㉿kali)-[~]
$ nmap -p 23 192.168.1.40
Starting Nmap 7.94SVN ( https://nmap.org ) at 2025-01-22 15:23 EST
Nmap scan report for 192.168.1.40
Host is up (0.044s latency).

PORT      STATE SERVICE
23/tcp    open  telnet

Nmap done: 1 IP address (1 host up) scanned in 0.13 seconds
```

Avvio Metasploit ed effettuo una scansione per cercare il modulo “auxiliary telnet_version” richiesto dalla traccia e utilizzo il modulo 1.

```
msf6 > search auxiliary telnet_version

Matching Modules

#  Name                                                                 Disclosure Date  Rank  Check  Description
-  -                                                                 -
0  auxiliary/scanner/telnet/lantronix_telnet_version .             normal No      Lantronix Te
lnet Service Banner Detection
1  auxiliary/scanner/telnet/telnet_version .             normal No      Telnet Servi
ce Banner Detection

Interact with a module by name or index. For example info 1, use 1 or use auxiliary/scanner/telnet/te
lnet_version

msf6 > use 1
msf6 auxiliary(scanner/telnet/telnet_version) > |
```

Utilizzando il comando `show options` visualizzo le informazioni per poter eseguire l'attacco.

```
msf6 auxiliary(scanner/telnet/telnet_version) > show options

Module options (auxiliary/scanner/telnet/telnet_version):
```

Name	Current Setting	Required	Description
PASSWORD		no	The password for the specified username
RHOSTS		yes	The target host(s), see https://docs.metasploit.com/docs/using-metasploit/basics/using-metasploit.html
RPORT	23	yes	The target port (TCP)
THREADS	1	yes	The number of concurrent threads (max one per host)
TIMEOUT	30	yes	Timeout for the Telnet probe
USERNAME		no	The username to authenticate as

Inserisco il remote host, in questo caso, la VM Metasploitable.

```
msf6 auxiliary(scanner/telnet/telnet_version) > set RHOSTS 192.168.1.40
RHOSTS => 192.168.1.40
msf6 auxiliary(scanner/telnet/telnet_version) > show options

Module options (auxiliary/scanner/telnet/telnet_version):
```

Name	Current Setting	Required	Description
PASSWORD		no	The password for the specified username
RHOSTS	192.168.1.40	yes	The target host(s), see https://docs.metasploit.com/docs/using-metasploit/basics/using-metasploit.html
RPORT	23	yes	The target port (TCP)
THREADS	1	yes	The number of concurrent threads (max one per host)
TIMEOUT	30	yes	Timeout for the Telnet probe
USERNAME		no	The username to authenticate as

Successivamente lancio l'attacco con il comando `exploit` ottenendo come risultato i dati di login del servizio.

```
msf6 auxiliary(scanner/telnet/telnet_version) > exploit

[+] 192.168.1.40:23 - 192.168.1.40:23 TELNET
Warning: Never expose this VM to an untrusted network!\nContact: msfdev[at]metasploit.com\nLogin with msfadmin/msfadmin to get started\n[*] 192.168.1.40:23 - Scanned 1 of 1 hosts (100% complete)
[*] Auxiliary module execution completed
```

Infine per verificare la correttezza delle informazioni ottenute eseguo il comando `telnet 192.168.1.40`.

```
msf6 auxiliary(scanner/telnet/telnet_version) > telnet 192.168.1.40
[*] exec: telnet 192.168.1.40

Trying 192.168.1.40 ...
Connected to 192.168.1.40.
Escape character is '^]'.

metasploitable login:

Warning: Never expose this VM to an untrusted network!
Contact: msfdev[at]metasploit.com
Login with msfadmin/msfadmin to get started

metasploitable login: █
```