ESERCITAZIONE WEEK 16 DAY 2



Configurazione macchine:

```
- (kali@ kali)-[r]
- f(config
ethe: f(config)
inet 192.168.1.25 netmask 255.255.255.0 broadcast 192.168.1.255
inet 192.168.1.25 netmask 255.255.255.0 broadcast 192.168.1.255
inet 192.168.1.25 netmask 255.255.255.0 broadcast 192.168.1.255
inet 6 f808::a08:227f:fcb2:7e:f5 txqueuelen 1000 (Ethernet)
    RX packets 0 bytes 0 (0.0 B)
    RX errors 0 dropped 0 overruns 0 frame 0
    TX packets 22 bytes 2844 (2.7 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
    Inet 127.0.0.1 netmask 255.0.0.0
    Inet 127.0.0.1 netmask 255.00.0
    RX packets 0 bytes 240 (240.0 B)
    RX packets 0 bytes 240 (240.0 B)
    RX packets 0 collisions 0

Link encap:Local Loopback
    RX packets 30 errors:0 dropped:0 overruns:0 carrier:0
    collisions:0 txqueuelen:1000
    Link encap:Local Loopback
    IX packets 4 bytes 240 (240.0 B)
    TX packets 6 bytes 240 (240.0 B)
    TX packets 6 bytes 240 (240.0 B)
    TX packets 6 bytes 240 (250.0 B)
    TX packets 7 bytes 240 (250.0 B)
    TX packets 8 bytes 240 (250.0 B)
    TX packets 9 bytes 240 (250.0 B)
    TX packets 9 bytes 240 (250.0 B)
    TX packets 9 bytes 240 (250.0 B)
    TX packets
```

Scansione nmap su target Metasploitable: è presente il servizio telnet in ascolto su porta 23 che trasmette su canale non cifrato. Ciò significa che un potenziale attaccante potrebbe sniffare la comunicazione e rubare informazioni sensibili come username, password ed i comandi scambiati tra client e server:

Per sfruttare questa particolare vulnerabilità del servizio Telnet, si usa il modulo ausiliario auxiliary/scanner/telnet/telnet_version:

```
auxiliary/scanner/telnet/telnet_version
normal No Telnet Service Banner Detection
auxiliary/scanner/telnet/telnet_encrypt_overflow
normal No Telnet Service Encryption Key ID Overflow Detection
payload/cmd/unix/bind_busybox_telnetd
normal No Unix Command Shell, Bind TCP (via BusyBox telnetd)
as payload/cmd/unix/reverse
normal No Unix Command Shell, Double Reverse TCP (telnet)
apyload/cmd/unix/reverse_ssl_double_telnet
normal No Unix Command Shell, Double Reverse TCP SSL (telnet)
apyload/cmd/unix/reverse_bash_telnet_ssl
normal No Unix Command Shell, Reverse TCP SSL (telnet)
accommand No Unix Command Shell, Reverse TCP SSL (telnet)
accommand No Unix Command Shell, Reverse TCP SSL (telnet)
accommand No Unix Command Shell, Reverse TCP SSL (telnet)
accommand No Unix Command Shell, Reverse TCP SSL (telnet)
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accommand No Unix Command Shell, Double Reverse TCP SSL
```

Configurazione delle opzioni necessarie:

```
View the full module info with the info, or info -d command.
                                                       m) > set rhosts 192.168.1.40
msf6 auxiliary(
msf6 auxiliary(scanner/telest/telest_version) > set rhosts 1 msf6 auxiliary(scanner/telest/telest_version) > show options
Module options (auxiliary/scanner/telnet/telnet_version):
                Current Setting Required Description
    PASSWORD
                                                   The password for the specified username
    RHOSTS
                192.168.1.40
                                                  The target host(s), see https://docs.met
asploit.com/docs/using-metasploit/basics
                                                   /using-metasploit.html
The target port (TCP)
The number of concurrent threads (max on
   RPORT
    THREADS
                                                   e per host)
Timeout for the Telnet probe
   TIMEOUT
    USERNAME
                                                   The username to authenticate as
View the full module info with the info, or info -d command.
msf6 auxiliary(scan
                                                    ion) >
```

Non serve in questo caso specificare alcun payload, quindi si procede con il comando exploit:

Sono così recuperati i dati di login.

Per verificare lo sfruttamento di questa vulnerabilità, possiamo accedere da kali al servizio Telnet:

Proviamo con le informazioni che ci ha restituito Metasploit, quindi username «msfadmin», password «msfadmin» per confermare che l'attacco ha avuto effettivamente successo e la vulnerabilità del servizio Telnet è stata sfruttata correttamente, in quanto abbiamo ottenuto accesso non autorizzato alla macchina.