

# S7L2

Esercizio di oggi richiede di attaccare kali da metasploitable. Per comodità uso pfsense e metto tutti gli os sulla stessa rete interna

Cambio ip su macchina metasploitable usando nano

```
GNU nano 2.0.7      File: /etc/network/interfaces
# 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 static
    address 192.168.1.25
    netmask 255.255.255.0
    gateway 192.168.1.1
```

Cambio ip su pfsense

```
WAN (wan)          -> em0          -> v4/DHCP4: 10.0.2.15/24
                                   v6/DHCP6: fd00::a00:27ff:fe24:a03d/
LAN1 (lan)          -> em1          -> v4: 192.168.10.1/24
OPT1 (opt1)         -> em2          -> v4: 192.168.1.1/24
OPT2 (opt2)         -> em3          -> v4: 192.168.30.1/24

0) Logout (SSH only)      9) pfTop
```

Cambio ip su macchina kali

Connection name interna-meta

General Ethernet 802.1X Security DCB Proxy IPv4 Settings IPv6 Settings

Method Automatic (DHCP)

Additional static addresses

Address	Netmask	Gateway
192.168.1.25	24	192.168.1.1

Add

Delete

Additional DNS servers

Faccio test di ping:

```

(kali㉿kali)-[~]
$ ip a
1: lo: <LOOPBACK,UP,LOWER_UP> mtu 65536 qdisc noqueue state U
KNOWN 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 proto kernel_lo
        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 192.168.1.25/24 brd 192.168.1.255 scope global nopre
fixroute eth0
        valid_lft forever preferred_lft forever
    inet6 fe80::89ea:99cd:1b3c:ac1c/64 scope link noprefixrou
te
        valid_lft forever preferred_lft forever
3: eth1: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc fq_
codel state UP group default qlen 1000
    link/ether 08:00:27:f0:90:41 brd ff:ff:ff:ff:ff:ff

(kali㉿kali)-[~]
$ ping 192.168.1.1
PING 192.168.1.1 (192.168.1.1) 56(84) bytes of data.
64 bytes from 192.168.1.1: icmp_seq=1 ttl=64 time=2.13 ms
64 bytes from 192.168.1.1: icmp_seq=2 ttl=64 time=2.14 ms
^C
— 192.168.1.1 ping statistics —
2 packets transmitted, 2 received, 0% packet loss, time 1046m
s
rtt min/avg/max/mdev = 2.126/2.134/2.143/0.008 ms

(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=2.22 ms
64 bytes from 192.168.1.40: icmp_seq=2 ttl=64 time=9.25 ms
^C
— 192.168.1.40 ping statistics —
2 packets transmitted, 2 received, 0% packet loss, time 1011m
s
rtt min/avg/max/mdev = 2.224/5.735/9.246/3.511 ms

(kali㉿kali)-[~]
$

```

Le macchine si parlano

Apro msfconsole ed eseguo un nmap

```

msf6 > nmap -sV 192.168.1.40
[*] exec: nmap -sV 192.168.1.40

Starting Nmap 7.95 ( https://nmap.org ) at 2025-01-21 16:12 CET
mass_dns: warning: Unable to determine any DNS servers. Reverse DNS is disabled. Try
using --system-dns or specify valid servers with --dns-servers
Nmap scan report for 192.168.1.40
Host is up (0.0022s latency).
Not shown: 977 closed tcp ports (reset)
PORT      STATE SERVICE      VERSION
21/tcp    open  ftp          vsftpd 2.3.4
22/tcp    open  ssh          OpenSSH 4.7p1 Debian 8ubuntu1 (protocol 2.0)
23/tcp    open  telnet?
25/tcp    open  smtp?
53/tcp    open  domain       ISC BIND 9.4.2
80/tcp    open  http         Apache httpd 2.2.8 ((Ubuntu) DAV/2)
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)
512/tcp   open  exec?
513/tcp   open  login?
514/tcp   open  shell?
1099/tcp  open  java-rmi     GNU Classpath grmiregistry
1524/tcp  open  bindshell    Metasploitable root shell
2049/tcp  open  nfs          2-4 (RPC #100003)
2121/tcp  open  ccproxy-ftp?
3306/tcp  open  mysql?
5432/tcp  open  postgresql   PostgreSQL DB 8.3.0 - 8.3.7
5900/tcp  open  vnc          VNC (protocol 3.3)
6000/tcp  open  X11          (access denied)
6667/tcp  open  irc          UnrealIRCd
8009/tcp  open  ajp13        Apache Jserv (Protocol v1.3)
8180/tcp  open  unknown
MAC Address: 08:00:27:AE:7A:06 (PCS Systemtechnik/Oracle VirtualBox virtual NIC)
Service Info: Host: 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 181.35 seconds
msf6 >

```

Cerco exploit telnet con **search telnet auxiliary**

```
msf6 > search telnet auxiliary
```

#### Matching Modules

#	Name	Disclosure Date	Rank	Check	Description
0	auxiliary/server/capture/telnet	.	normal	No	Authentication Capture: Telnet
1	auxiliary/scanner/telnet/brocade_enable_login	.	normal	No	Brocade Enable Login Check Scanner
2	auxiliary/dos/cisco/ios_telnet_rocem	2017-03-17	normal	No	Cisco IOS Telnet Denial of Service
3	auxiliary/admin/http/dlink_dir_300_600_exec_noauth	2013-02-04	normal	No	D-Link DIR-600 / DIR-300 Unauthenticated Remote Command Execution
4	auxiliary/scanner/ssh/juniper_backdoor	2015-12-20	normal	No	Juniper SSH Backdoor Scanner
5	auxiliary/scanner/telnet/lantronix_telnet_password	.	normal	No	Lantronix Telnet Password Recovery
6	auxiliary/scanner/telnet/lantronix_telnet_version	.	normal	No	Lantronix Telnet Service Banner Detection
7	auxiliary/dos/windows/ftp/iis75_ftp_iac_bof	2010-12-21	normal	No	Microsoft IIS FTP Server Encoded Response Overflow Trigger
8	auxiliary/admin/http/netgear_pnp_getsharefolderlist_auth_bypass	2021-09-06	normal	Yes	Netgear PNPX_GetShareFolderlist Authentication Bypass
9	auxiliary/admin/http/netgear_r6700_pass_reset	2020-06-15	normal	Yes	Netgear R6700v3 Unauthenticated LAN Admin Password Reset
10	auxiliary/admin/http/netgear_r7000_backup_cgi_heap_overflow_rce	2021-04-21	normal	Yes	Netgear R7000 backup.cgi Heap Overflow RCE
11	auxiliary/scanner/telnet/telnet_ruggedcom	.	normal	No	RuggedCom Telnet Password Generator
12	auxiliary/scanner/telnet/satel_cmd_exec	2017-04-07	normal	No	Satel Iberia SenNet Data Logger and Electricity Meters Command Injection Vulnerability
13	auxiliary/scanner/telnet/telnet_login	.	normal	No	Telnet Login Check Scanner
14	auxiliary/scanner/telnet/telnet_version	.	normal	No	Telnet Service Banner Detection
15	auxiliary/scanner/telnet/telnet_encrypt_overflow	.	normal	No	Telnet Service Encryption Key ID Overflow Detection

```
msf6 > use 14
```

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

```
[-] Unknown datastore option: options.
```

```
Usage: set [options] [name] [value]
```

Set the given option to value. If value is omitted, print the current value. If both are omitted, print options that are currently set.

If run from a module context, this will set the value in the module's datastore. Use -g to operate on the global datastore.

If setting a PAYLOAD, this command can take an index from 'show payloads'.

#### OPTIONS:

- c, --clear Clear the values, explicitly setting to nil (default)
- g, --global Operate on global datastore variables
- h, --help Help banner.

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

View the full module info with the info, or info -d command.
```

View the full module info with the `info`, or `info -d` command.

```
msf6 auxiliary(scanner/telnet/telnet_version) > set RPORT 23
[!] Unknown datastore option: RPORT. Did you mean RPORT?
RPORT => 23
msf6 auxiliary(scanner/telnet/telnet_version) > set RHOST 192.168.1.40
[!] Unknown datastore option: R*HOST. Did you mean RHOST?
R*HOST => 192.168.1.40
msf6 auxiliary(scanner/telnet/telnet_version) > 
```

```
msf6 auxiliary(scanner/telnet/telnet_version) > run
[*] 192.168.1.40:23 - 192.168.1.40:23 TELNET - \x0a
\x0a
\x0a
Warning: Never expose this VM to an untrusted network!\x0aContact: msfdev[at]metasploit.com\x0aLogin with m
sfadmin/msfadmin to get started\x0a\x0a\x0ametasploitable login:
[*] 192.168.1.40:23 - Scanned 1 of 1 hosts (100% complete)
[*] Auxiliary module execution completed
msf6 auxiliary(scanner/telnet/telnet_version) >
```

Metasploit ha recuperato il banner del servizio Telnet in esecuzione sulla macchina bersaglio **Metasploitable** all'indirizzo IP **192.168.1.40** sulla porta **23**.

Il banner ottenuto è il messaggio di benvenuto standard di **Metasploitable**, che indica:

- La macchina è una macchina Metasploitable configurata con il nome utente e la password predefiniti (**msfadmin/msfadmin**).
- Contiene un avviso di sicurezza che suggerisce di non esporre questa macchina a reti non fidate.
- Conferma che il servizio Telnet è attivo e accessibile.

```
msf6 auxiliary(scanner/telnet/telnet_version) > set USERNAME msfadmin
USERNAME => msfadmin
msf6 auxiliary(scanner/telnet/telnet_version) > set PASSWORD msfadmin
PASSWORD => msfadmin
msf6 auxiliary(scanner/telnet/telnet_version) > set THREADS 4
THREADS => 4
msf6 auxiliary(scanner/telnet/telnet_version) > options

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

Name	Current Setting	Required	Description
PASSWORD	msfadmin	no	The password for the specified username
RHOSTS	192.168.1.40	yes	The target host(s), see <a href="https://docs.metasploit.com/docs">https://docs.metasploit.com/docs</a>
RPORT	23	yes	The target port (TCP)
THREADS	4	yes	The number of concurrent threads (max one per host)
TIMEOUT	30	yes	Timeout for the Telnet probe
USERNAME	msfadmin	no	The username to authenticate as

View the full module info with the `info`, or `info -d` command.