# S5/L2

#### 08/01/2025

Si richiede allo studente di effettuare le seguenti scansioni sul target Metasploitable:

- OS fingerprint.
- Syn Scan.
- TCP connect trovate differenze tra i risultati delle scansioni TCP connect e SYN?
- Version detection.

E la seguente sul target Windows:

OS fingerprint.

Ho impostato lo stesso indirizzo ip di metasploitable e kali per farli comunicare

Fatto ciò ho cominciato con i comandi nmap per trovare il sistema operativo

# Poi il comando per il syn scan

```
(Moore Rats)-[/nome/Rats]
nmap -ss 192.168.60.2
Starting Nmap 7.94SVN (https://nmap.org) at 2025-01-08 08:53 EST
Nmap scan report for 192.168.60.2
Host is up (0.0024s latency).
Not shown: 977 closed tcp ports (reset)
PORT STATE SERVICE
21/tcp
22/tcp
23/tcp
                open ftp
               open telnet
25/tcp
                open
                           smtp
53/tcp
80/tcp
                           domain
                open http
 111/tcp
                           rpcbind
                open
 139/tcp open
445/tcp open
                           microsoft-ds
 512/tcp
                open
512/tcp open
513/tcp open
514/tcp open
1099/tcp open
1524/tcp open
2049/tcp open
2121/tcp open
3306/tcp open
5432/tcp open
5900/tcp open
                           shell
                           rmiregistry
                            ingreslock
                           nfs
                           ccproxy-ftp
                           mysql
                           postgresql
6000/tcp open X11
6667/tcp open irc
8009/tcp open ajp13
8180/tcp open
MAC Address: 08:00:27:6D:84:56 (Oracle VirtualBox virtual NIC)
 Wmap done: 1 IP address (1 host up) scanned in 13.38 seconds
```

# Successivamente il comando per il tcp connect scan

```
(<mark>root@kali</mark>)-[/home/kali]
nmap -sT 192.168.60.2
Immap -ST 192.168.60.2

Starting Nmap 7.94SVN ( https://nmap.org ) at 2025-01-08 08:57 EST Nmap scan report for 192.168.60.2

Host is up (0.0021s latency).

Not shown: 977 closed tcp ports (conn-refused)

PORT STATE SERVICE

21/tcp open ftp
21/tcp
22/tcp
23/tcp
              open
                      ssh
              open telnet
25/tcp
                       smtp
              open
53/tcp
80/tcp
111/tcp
              open
                       rpcbind
             open
 139/tcp
                       netbios-ssn
             open
445/tcp
             open
512/tcp open
513/tcp open
                      exec
login
shell
514/tcp open
1099/tcp open
1524/tcp open
2049/tcp open
                       rmiregistry
                       ingreslock
                      nfs
2121/tcp open
                       ccproxy-ftp
3306/tcp open
                       mysql
5432/tcp open
5900/tcp open
                       postgresql
6000/tcp open
6667/tcp open
8009/tcp open
8180/tcp open unknown
MAC Address: 08:00:27:6D:84:56 (Oracle VirtualBox virtual NIC)
Nmap done: 1 IP address (1 host up) scanned in 13.38 seconds
```

#### Ed infine il version detection

```
| Croot | Solid | -[/home/kali] | Croot | Solid | -[/home/kali] | Croot | Solid | -[/home/kali] | Croot | Croo
```

Ha impiegato un po di tempo quindi ho fatto un'altra prova usando il timing –T5 per rendere la ricerca più aggressiva e veloce

Si può vedere come il tempo sia minore

La consegna chiedeva di fare gli stessi passaggi con un altro target, in questo caso windows, ho usato windows 10 in macchina virtuale, ho modificato il suo indirizzo ip rendendolo come quello di kali per avviare la comunicazione tra le due MV.

# **OS FINGERPRINT**

```
(**sot& kml1)-[/home/kali]
inmap -0 = 75 192.168.60.10

Starting Nmap 7.94SVW ( https://nmap.org ) at 2025-01-08 10:19 EST

Nmap scan report for 192.168.60.10

Host is up (0.031s latency).

Not shown: 997 filtered tcp ports (no-response)

PORT STATE SERVICE

139/tcp open msrpc

139/tcp open methios-ssn

445/tcp open microsoft-ds

MAC Address: 08:00:27:17:45:2C (Oracle VirtualBox virtual NIC)

Warning: OSScan results may be unreliable because we could not find at least 1 open and 1 closed por t

Device type: general purpose

Running (JUST GUESSING): Microsoft Windows 2019|10|XP (91%)

OS CPE: cpe://o:microsoft:windows_10 cpe://o:microsoft:windows_xp::sp3

Aggressive OS guesses: Microsoft Windows Server 2019 (91%), Microsoft Windows 10 1909 (90%), Microsoft Windows XP SP2 (85%)

No exact OS matches for host (test conditions non-ideal).

Network Distance: 1 hop

OS detection performed. Please report any incorrect results at https://nmap.org/submit/.

Nmap done: 1 IP address (1 host up) scanned in 23.42 seconds
```

## SYN SCAN

```
map -ss -T5 192.168.60.10
Starting Nmap 7.94SVN (https://nmap.org) at 2025-01-08 10:23 EST Nmap scan report for 192.168.60.10
Host is up (0.014s latency).
Not shown: 997 filtered tcp ports (no-response)
PORT STATE SERVICE
135/tcp open msrpc
139/tcp open netbios-ssn
445/tcp open microsoft-ds
MAC Address: 08:00:27:17:45:2C (Oracle VirtualBox virtual NIC)
Nmap done: 1 IP address (1 host up) scanned in 17.12 seconds
```

#### **TCP CONNECT**

```
(root € kali)-[/home/kali]

# nmap -ST -T5 192.168.60.10

Starting Nmap 7.94SVN ( https://nmap.org ) at 2025-01-08 10:26 EST

Nmap scan report for 192.168.60.10

Host is up (0.053s latency).

Not shown: 997 filtered tcp ports (no-response)

PORT STATE SERVICE

135/tcp open msrpc

139/tcp open netbios-ssn

445/tcp open microsoft-ds

MAC Address: 08:00:27:17:45:2C (Oracle VirtualBox virtual NIC)

Nmap done: 1 IP address (1 host up) scanned in 20.51 seconds
```

# **VERSION DETECTION**

```
(root® kali)-[/home/kali]
# nmap -sV -T5 192.168.60.10
Starting Nmap 7.94SVN ( https://nmap.org ) at 2025-01-08 10:30 EST
Nmap scan report for 192.168.60.10
Host is up (0.026s latency).
Not shown: 997 filtered tcp ports (no-response)
PORT STATE SERVICE VERSION
135/tcp open msrpc Microsoft Windows RPC
139/tcp open netbios-ssn Microsoft Windows netbios-ssn
445/tcp open microsoft-ds?
MAC Address: 08:00:27:17:45:2C (Oracle VirtualBox virtual NIC)
Service Info: OS: Windows; CPE: cpe:/o:microsoft:windows

Service detection performed. Please report any incorrect results at https://nmap.org/submit/.
Nmap done: 1 IP address (1 host up) scanned in 28.60 seconds
```