

Scansione dei servizi

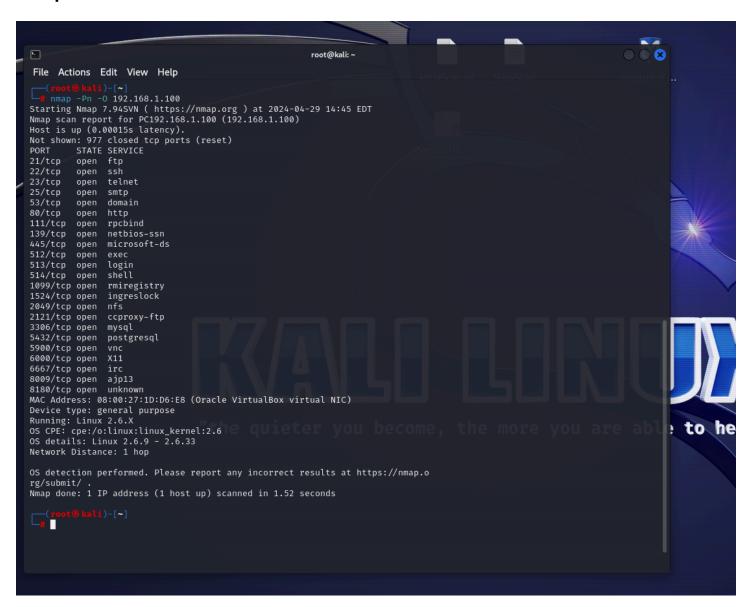
Traccia: Tecniche di scansione con Nmap

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

- OS fingerprint
- Syn Scan
- ☐ TCP connect trovate differenze tra i risultati della scansioni TCP connect e SYN?
- □ Version detection

// EPICODE

nmap -Pn -O 192.168.1.100



nmap -sS

```
-# nmap -sS 192.168.1.100
Starting Nmap 7.945VN ( https://nmap.org ) at 2024-04-29 14:56 EDT Nmap scan report for PC192.168.1.100 (192.168.1.100)
Host is up (0.000079s latency).
Not shown: 977 closed tcp ports (reset)
PORT STATE SERVICE
           open ftp
open ssh
22/tcp
23/tcp
            open telnet
25/tcp
            open
                    smtp
53/tcp
            open domain
80/tcp
            open http
111/tcp open rpcbind
139/tcp open netbios-ssn
445/tcp open microsoft-ds
512/tcp open exec
513/tcp open login
514/tcp open shell
1099/tcp open rmiregistry
1524/tcp open ingreslock
2049/tcp open rfs
2121/tcp open ccproxy-ftp
3306/tcp open mysql
5432/tcp open postgresql
5900/tcp open vnc
6000/tcp open X11
6667/tcp open irc
8009/tcp open ajp13
8180/tcp open unknown
MAC Address: 08:00:27:1D:D6:E8 (Oracle VirtualBox virtual NIC)
Nmap done: 1 IP address (1 host up) scanned in 0.20 seconds
     Ī
```

nmap 192.168.1.100

```
_# nmap 192.168.1.100
Starting Nmap 7.94SVN ( https://nmap.org ) at 2024-04-29 14:59 EDT
Nmap scan report for PC192.168.1.100 (192.168.1.100)
Host is up (0.000052s latency).
Not shown: 977 closed tcp ports (reset)
        STATE SERVICE
PORT
21/tcp
         open ftp
22/tcp open ssh
23/tcp open telnet
25/tcp open smtp
53/tcp open domain
80/tcp open http
111/tcp open rpcbind
139/tcp open netbios-ssn
445/tcp open microsoft-ds
512/tcp open exec
513/tcp open login
514/tcp open shell
1099/tcp open rmiregistry
1524/tcp open ingreslock
2049/tcp open nfs
2121/tcp open ccproxy-ftp
3306/tcp open mysql
5432/tcp open postgresql
5900/tcp open vnc
6000/tcp open X11
6667/tcp open
8009/tcp open ajp13
8180/tcp open unknown
MAC Address: 08:00:27:1D:D6:E8 (Oracle VirtualBox virtual NIC)
Nmap done: 1 IP address (1 host up) scanned in 0.15 seconds
   (<u>root® kali</u>)-[~]
```

Parte 2



Esercizio

Scansione dei servizi

Modificate le impostazioni di rete delle macchine virtuali per fare in modo che i due target siano sulla stessa rete. A valle delle scansioni, per entrambi gli IP, è prevista la produzione di un **report** contenente le seguenti info (dove disponibili):

- □ IP
- □ Sistema Operativo
- □ Porte Aperte
- □ Servizi in ascolto con versione
- □ Descrizione dei servizi

https://www.poftut.com/nmap-output/

nmap -oN report1 IP

da kali a windows

```
| Section | 1973-168-16 | Property | Propert
```

```
(root® kali)-[/home/kali]
nmap -sV -f --mtu 512 -p 1-1024 192.168.1.8
Starting Nmap 7.94SVN ( https://nmap.org ) at 2024-04-30 15:04 EDT
Nmap scan report for PC192.168.1.8 (192.168.1.8)
Host is up (0.00016s latency).
All 1024 scanned ports on PC192.168.1.8 (192.168.1.8) are in ignored states.
Not shown: 1024 filtered tcp ports (no-response)
MAC Address: 08:00:27:5A:DB:31 (Oracle VirtualBox virtual NIC)
Service detection performed. Please report any incorrect results at https://nmap.org/submit/ .
Nmap done: 1 IP address (1 host up) scanned in 22.04 seconds
  -(root@kali)-[/home/kali]
/ nmap -sV -f --mtu 512 --badsum -p 1-1024 192.168.1.8
Starting Nmap 7.94SVN ( https://nmap.org ) at 2024-04-30 15:05 EDT
Nmap scan report for PC192.168.1.8 (192.168.1.8)
Host is up (0.00015s latency).
All 1024 scanned ports on PC192.168.1.8 (192.168.1.8) are in ignored states.
Not shown: 1024 filtered tcp ports (no-response)
MAC Address: 08:00:27:5A:DB:31 (Oracle VirtualBox virtual NIC)
Service detection performed. Please report any incorrect results at https://nmap.org/submit/ .
Nmap done: 1 IP address (1 host up) scanned in 22.01 seconds
         kali)-[/home/kali]
nmap -sV -f --mtu 512 --adler32 -p 1-1024 192.168.1.8
Starting Nmap 7.94SVN ( https://nmap.org ) at 2024-04-30 15:06 EDT
Nmap scan report for PC192.168.1.8 (192.168.1.8)
Host is up (0.00020s latency).
All 1024 scanned ports on PC192.168.1.8 (192.168.1.8) are in ignored states.
Not shown: 1024 filtered tcp ports (no-response)
MAC Address: 08:00:27:5A:DB:31 (Oracle VirtualBox virtual NIC)
```

Nessun comando è stato in grado di bypassare il drop pacchetti di windows. Qualche info grazie alle scansioni UDP (OPENED|FILTERED)

Con regola Firewall qualcosa passa e permette di scoprire OS della macchina target

```
nmap -sV -p 1-1024 192.168.1.8

Starting Nmap 7.94SVN ( https://nmap.org ) at 2024-04-30 17:20 EDT
Nmap scan report for PC192.168.1.8 (192.168.1.8)
Host is up (0.00016s latency).
Not shown: 1021 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 Microsoft Windows 7 - 10 microsoft-ds (workgroup: WORKGROUP)
MAC Address: 08:00:27:5A:DB:31 (Oracle VirtualBox virtual NIC)
Service Info: Host: WIN7EC; 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 11.50 seconds
    nmap -0 -p 1-1024 192.168.1.8
Starting Nmap 7.94SVN ( https://nmap.org ) at 2024-04-30 17:21 EDT
Nmap scan report for PC192.168.1.8 (192.168.1.8)
Host is up (0.00017s latency).
Not shown: 1021 filtered tcp ports (no-response)
PORT STATE SERVICE
135/tcp open msrpc
139/tcp open netbios-ssn
445/tcp open microsoft-ds
MAC Address: 08:00:27:5A:DB:31 (Oracle VirtualBox virtual NIC)
Warning: OSScan results may be unreliable because we could not find at least 1 open and 1 closed port
Device type: specialized|phone
Running: Microsoft Windows 7 Phone
OS CPE: cpe:/o:microsoft:windows_7 cpe:/o:microsoft:windows
OS details: Microsoft Windows Embedded Standard 7, Microsoft Windows Phone 7.5 or 8.0
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 7.83 seconds
```

Aggiungo anche, chiedo delucidazioni su questo screen



In quanto la porta 22 non ha nessun senso di essere aperta con il firewall base, se non forzatamente tramite regola ad hoc