

Nell'esercizio di oggi abbiamo eseguito delle scansioni di rete sulle nostre macchine virtuali. Il motivo per cui le eseguiamo sono di individuare le vulnerabilita' e di eseguire in maniera effettiva un penetration testing.

Nel primo caso eseguiamo il comando -O su meta per identificare il sistema operativo dell'indirizzo ip target.

Nel secondo caso eseguiamo il comando -sS per identificare le porte aperte relative al target.

Nel terzo caso il comando -sT esegue una scansione piu' invasiva creando di fatto un collegamento con le porte TCP sul target di riferimento.

Il comando -sV si utilizza per effettuare un check delle versioni dei servizi.

Abbiamo anche eseguito questi comandi sulla mv windows 7 e abbiamo notato che il firewall blocca la richiesta di comunicazione, mentre col firewall giu' esegue la scansione normalmente dandoci tutte le informazioni.

File Actions Edit View Help

(root@kali)-[~]

nmap -O 192.168.49.101

Starting Nmap 7.94SVN (<https://nmap.org>) at 2024-02-21 09:12 EST

Nmap scan report for 192.168.49.101

Host is up (0.00051s latency).

Not shown: 977 closed tcp ports (reset)

| PORT | STATE | SERVICE |
|----------|-------|--------------|
| 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 | irc |
| 8009/tcp | open | ajp13 |
| 8180/tcp | open | unknown |

Device type: general purpose

Running: Linux 2.6.X

OS CPE: cpe:/o:linux:linux_kernel:2.6

OS details: Linux 2.6.15 - 2.6.26 (likely embedded)

Network Distance: 2 hops

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

Nmap done: 1 IP address (1 host up) scanned in 1.63 seconds

(root@kali)-[~]

File Actions Edit View Help

Network Distance: 2 hops

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

Nmap done: 1 IP address (1 host up) scanned in 1.63 seconds

(root@kali)-[~]

nmap -sS 192.168.49.101

Starting Nmap 7.94SVN (<https://nmap.org>) at 2024-02-21 09:14 EST

Nmap scan report for 192.168.49.101

Host is up (0.00061s latency).

Not shown: 977 closed tcp ports (reset)

| PORT | STATE | SERVICE |
|------|-------|---------|
|------|-------|---------|

| | | |
|--------|------|-----|
| 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 | irc |
|----------|------|-----|

| | | |
|----------|------|-------|
| 8009/tcp | open | ajp13 |
|----------|------|-------|

| | | |
|----------|------|---------|
| 8180/tcp | open | unknown |
|----------|------|---------|

Nmap done: 1 IP address (1 host up) scanned in 0.17 seconds

(root@kali)-[~]

#

```
(root@kali)-[~]  
# nmap -sT 192.168.49.101  
Starting Nmap 7.94SVN ( https://nmap.org ) at 2024-02-21 09:16 EST  
Nmap scan report for 192.168.49.101  
Host is up (0.00064s latency).  
Not shown: 977 closed tcp ports (conn-refused)  
PORT      STATE SERVICE  
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  irc  
8009/tcp  open  ajp13  
8180/tcp  open  unknown  
  
Nmap done: 1 IP address (1 host up) scanned in 0.12 seconds
```

```
(root@kali)-[~]  
#
```

(root@kali)~

nmap -O 192.168.49.102

Starting Nmap 7.94SVN (<https://nmap.org>) at 2024-02-21 09:17 EST

Nmap scan report for 192.168.49.102

Host is up (0.00048s latency).

Not shown: 991 closed tcp ports (reset)

| PORT | STATE | SERVICE |
|-----------|-------|--------------|
| 135/tcp | open | msrpc |
| 139/tcp | open | netbios-ssn |
| 445/tcp | open | microsoft-ds |
| 49152/tcp | open | unknown |
| 49153/tcp | open | unknown |
| 49154/tcp | open | unknown |
| 49155/tcp | open | unknown |
| 49156/tcp | open | unknown |
| 49157/tcp | open | unknown |

Device type: general purpose

Running: Microsoft Windows Vista|2008|7

OS CPE: cpe:/o:microsoft:windows_vista::- cpe:/o:microsoft:windows_vista::sp1 cpe:/o:microsoft:windows_server_2008::sp1 cpe:/o:microsoft:windows_7

OS details: Microsoft Windows Vista SP0 or SP1, Windows Server 2008 SP1, or Windows 7, Microsoft Windows Vista SP2, Windows 7 SP1, or Windows Server 2008

Network Distance: 2 hops

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

Nmap done: 1 IP address (1 host up) scanned in 2.90 seconds

```
(root@kali)-[~]
```

```
# nmap -Pn -O 192.168.49.102
```

```
Starting Nmap 7.94SVN ( https://nmap.org ) at 2024-02-21 09:22 EST
```

```
Nmap scan report for 192.168.49.102
```

```
Host is up.
```

```
All 1000 scanned ports on 192.168.49.102 are in ignored states.
```

```
Not shown: 1000 filtered tcp ports (no-response)
```

```
Too many fingerprints match this host to give specific OS details
```

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

```
Nmap done: 1 IP address (1 host up) scanned in 210.82 seconds
```

```
(root@kali)-[~]
```

```
# █
```