## Relazione Tecniche di Scansione con Nmap (Metasploitable e Windows10)

1. Di seguito abbiamo l'immagine del nostro target, su cui andremo a fare varie operazioni di scanning con **Nmap** 



Warning: Never expose this VM to an untrusted network!

Contact: msfdev[at]metasploit.com

Login with msfadmin/msfadmin to get started

- TWiki
- phpMyAdmin
- Mutillidae
- DVWA
- WebDAV
- 2. Nell'immagine seguente andiamo ad utilizzare nmap per rilevare l'OS:
  - nmap -O 192.168.1.28

```
nmap -0 192.168.1.28
Starting Nmap 7.94SVN ( https://nmap.org ) at 2024-09-10 07:58 EDT Nmap scan report for METASPLOITABLE.station (192.168.1.28) Host is up (0.0035s latency).
Not shown: 977 closed tcp ports (reset)
PORT STATE SERVICE
21/tcp open ftp
22/tcp open ssh
23/tcp open telnet
                          open
open
                                         smtp
domain
                                        http
rpcbind
netbios-ssn
microsoft-ds
                          open
                          open
                          open
                          open
                                          exec
login
shell
                          open
                          open
open
   099/tcp open
                                           rmiregistry
ingreslock
2049/tcp open ofs
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: 08:00:27:16:CA:16 (Oracle VirtualBox virtual NIC)
Device type: general purpose
Running: Linux 2.6.X
OS CPE: cpe:/o:linux:linux_kernel:2.6
OS details: Linux 2.6.9 - 2.6.33
Network Distance: 1 hop
                         open
                                          nfs
OS detection performed. Please report any incorrect results at https://nmap.org/submit/ .
Nmap done: 1 IP address (1 host up) scanned in 3.18 seconds
```

- 3. Nell'immagine seguente andiamo ad utilizzare nmap per la SYN Scan:
  - nmap -s\$ 192.168.1.28

```
| root@ kali | -- |
| nmap -sS 192.168.1.28
| Starting Nmap 7.945VN (https://nmap.org) at 2024-09-10 07:59 EDT |
| Nmap scan report for METASPLOITABLE.station (192.168.1.28) |
| Host is up (0.0775 latency). |
| Not shown: 977 closed tcp ports (reset) |
| PORT STATE SERVICE |
| 21/tcp open ftp |
| 22/tcp open ssh |
| 23/tcp open domain |
| 80/tcp open http |
| 11/tcp open rpcbind |
| 139/tcp open microsoft-ds |
| 512/tcp open shell |
| 1099/tcp open rmiregistry |
| 1514/tcp open rigreslock |
| 2049/tcp open nfs |
| 212/1/tcp open ccproxy-ftp |
| 3306/tcp open mysql |
| 5432/tcp open postgresql |
| 5000/tcp open x11 |
| 6667/tcp open ajp13 |
| 8180/tcp open unknown |
| MAC Address: 08:00:27:16:CA:16 (Oracle VirtualBox virtual NIC) |
| Nmap done: 1 IP address (1 host up) scanned in 0.35 seconds
```

- 4. Nell'immagine seguente andiamo ad utilizzare nmap per la TCP Connect Scan:
  - nmap -sT 192.168.1.28

```
| The color of the
```

- Differenze tra SYN Scan e TCP Connect Scan
  - la SYN Scan su riga di comando identificata con -sS, invia i pacchetti SYN, ma senza stabilire una connessione completa
  - la TCP Scan su riga di comando -sT, ha lo scopo di stabilire una connessione completa con una sequenza TCP, così da poter essere rilevata durante la visualizzazione dei log

5. Nell'immagine seguente andiamo ad utilizzare nmap per il Version Detection dei servizi:

nmap -sV 192.168.1.28

```
| map -3/ 192.168.1.28 | map -3/ 192.168.1.28
```

## **Target Windows XP**

- Nell'immagine seguente andiamo ad utilizzare nmap per rilevare l'OS
  - nmap -O 192.168.1.29

```
nmap -0 192.168.1.29
Starting Nmap 7.94SVN ( https://nmap.org ) at 2024-09-10 09:34 EDT
Nmap scan report for windowsxp.station (192.168.1.29)
Host is up (0.00095s latency).
Not shown: 998 filtered tcp ports (no-response)
PORT STATE SERVICE
139/tcp open netbios-ssn
445/tcp open microsoft-ds
MAC Address: 08:00:27:5C:8D:1C (Oracle VirtualBox virtual NIC)
Warning: OSScan results may be unreliable because we could not find at least 1 open and 1 closed port
Aggressive OS guesses: Microsoft Windows 2000 SP3/SP4 or Windows XP SP1/SP2 (97%), Microsoft Windows XP SP2 or SP3 (97%), Microsoft Windows 2000 SP0 - SP4
3%), Microsoft Windows XP Professional SP2 or Windows Server 2003 (93%), Microsoft Windows XP SP1 (93%), Microsoft Windows XP SP3 (92%), Microsoft Windows
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 9.50 seconds
```

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