

Relazione sulle Tecniche di Scansione con Nmap

Obiettivo:

Effettuare scansioni su Metasploitable e Windows 7 per raccogliere informazioni su sistema operativo, porte aperte e servizi in ascolto con le rispettive versioni.

Target:

- **Metasploitable: 192.168.50.101**
- **Windows 7: 192.168.50.102**

Scansioni Effettuate su Metasploitable (192.168.50.101)

1. OS Fingerprint

- Comando: `sudo nmap -O 192.168.50.101`
- Risultato: Linux, molte porte aperte tra cui ftp, ssh, telnet, smtp, http, mysql.

2. SYN Scan

- Comando: `sudo nmap -sS 192.168.50.101`
- Risultato: Stesse porte aperte della TCP Connect Scan, metodo più stealth.

3. TCP Connect Scan

- Comando: `sudo nmap -sT 192.168.50.101`
- Risultato: Stesse porte aperte della SYN Scan, metodo più visibile nei log.

4. Version Detection

- Comando: `sudo nmap -sV 192.168.50.101`
- Risultato: Dettagliate versioni dei servizi, ad esempio vsftpd 2.3.4, OpenSSH 4.7p1.

Scansioni Effettuate su Windows 7 (192.168.50.102)

1. OS Fingerprint

- Comando: `sudo nmap -O 192.168.50.102`
- Risultato: Microsoft Windows 7 SP0 - SP1

Quesito Extra

Analisi dei Risultati della Scansione su Windows 7

- **Ragione per i Risultati Ottenuti:** Le porte risultano filtrate, probabilmente a causa del firewall attivo.
- **Soluzione Proposta:** Usare il comando `sudo nmap -T1-2` per avere una ricerca più dedicata e minuziosa, così da poter aggirare il firewall attivo su windows (non c'è lo screen poichè richiedeva molto tempo la scansione). Si potrebbe anche disattivare direttamente il firewall, ma avrebbe poco senso l'esercizio (negli screen c'è la prova con il firewall disattivato).

```
File Actions Edit View Help
Nmap done: 1 IP address (1 host up) scanned in 14.68 seconds

lelo@lelo:~$ sudo nmap -sS 192.168.50.102
Starting Nmap 7.94SVN ( https://nmap.org ) at 2024-06-26 15:47 CEST
Nmap scan report for 192.168.50.102
Host is up (0.00069s 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
MAC Address: 08:00:27:39:1A:6C (Oracle VirtualBox virtual NIC)

Nmap done: 1 IP address (1 host up) scanned in 14.81 seconds

lelo@lelo:~$ sudo nmap -sT 192.168.50.102
Starting Nmap 7.94SVN ( https://nmap.org ) at 2024-06-26 15:49 CEST
Nmap scan report for 192.168.50.102
Host is up (0.0016s latency).
Not shown: 991 closed tcp ports (conn-refused)
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
MAC Address: 08:00:27:39:1A:6C (Oracle VirtualBox virtual NIC)

Nmap done: 1 IP address (1 host up) scanned in 14.41 seconds

lelo@lelo:~$ sudo nmap -sV 192.168.50.101
[sudo] password for lelo:
Starting Nmap 7.94SVN ( https://nmap.org ) at 2024-06-26 15:48 CEST
Nmap scan report for 192.168.50.101
Host is up (0.0044s 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  netbios-ssn
512/tcp   open  exec
513/tcp   open  login
514/tcp   open  shell
1099/tcp  open  rmi
1524/tcp  open  bindshell
2049/tcp  open  nfs
2121/tcp  open  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  http
MAC Address: 08:00:27:E1:A5:6A (Oracle VirtualBox virtual NIC)
No exact OS matches for host (If you know what OS is running on it, see https://nmap.org/submit/ ).
TCP/IP fingerprint:
OS:SCAN(V=7.94SVNNE=4X0-6/26XOT-21XCT-1XCU-38949XPV-YXDS-1XDC-DXG-YXM-08002
OS:7X7M-667C1C3EXP-x86_64-pc-linux-gnu)SEQ(SP=CA%GCD-1XISR-D1XTI-ZXCI-Z%TI-
OS:1X7S-5)SEQ(SP=CA%GCD-3XISR-D1XTI-ZXCI-ZXII-1X7S-5)SEQ(SP=CB%GCD-1XISR-D1
OS:XTI-ZXCI-ZXII-1X7S-5)OPS(O1=MSB4ST11NW7X02-MSB4ST11NW7X03-MSB4NNT11NW7X0
OS:4=MSB4ST11NW7X05-MSB4ST11NW7X06-MSB4ST11)WIN(W1=16A0XW2-16A0XW3-16A0XW4-
OS:16A0XW5-16A0XW6-16A0)ECN(R=YXDF=YT=40XW-16D0X0-MSB4NNSNW7XCC=NXQ=)T1(R=
OS:YXDF=YT=40XW-0XA-S+XF-ARXRD-0XQ=)T2(R=)T3(R=YXDF=YT=40XW-16A0XW-0XA-S
OS:XF-ARX0-MSB4ST11NW7XRD-0XQ=)T4(R=YXDF=YT=40XW-0XW-0XW-AXA-ZXF-RX0-XRD-0XQ-
OS:75(R=YXDF=YT=40XW-0XW-ZXA-S+XF-ARX0-XRD-0XQ=)T6(R=YXDF=YT=40XW-0XW-AX
OS:A-ZXF-RX0-XRD-0XQ=)T7(R=YXDF=YT=40XW-0XW-ZXA-S+XF-ARX0-XRD-0XQ=)U1(R=Y
OS:DF-NXT-40XPL=16XUN-0XRIPL-GXRID-GXRIPOCK-GXRUCK-GXRUD-G)IE(R=YXDFI-NXT-
OS:40XCD-5)

Network Distance: 1 hop
```

```
49156/tcp open  unknown
49157/tcp open  unknown
MAC Address: 08:00:27:39:1A:6C (Oracle VirtualBox virtual NIC)

Nmap done: 1 IP address (1 host up) scanned in 14.41 seconds

lelo@lelo:~$ sudo nmap -O 192.168.50.102
Starting Nmap 7.94SVN ( https://nmap.org ) at 2024-06-26 15:53 CEST
Nmap scan report for 192.168.50.102
Host is up (0.00093s 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
MAC Address: 08:00:27:39:1A:6C (Oracle VirtualBox virtual NIC)
Device type: general purpose
Running: Microsoft Windows 7|2008|8.1
OS CPE: cpe:/o:microsoft:windows_7:- cpe:/o:microsoft:windows_7::sp1 cpe:/o:microsoft:w
indows_server_2008::sp1 cpe:/o:microsoft:windows_server_2008:r2 cpe:/o:microsoft:windows
8 cpe:/o:microsoft:windows_8.1
OS details: Microsoft Windows 7 SP0 - SP1, Windows Server 2008 SP1, Windows Server 2008
R2, Windows 8, or Windows 8.1 Update 1
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 15.71 seconds

lelo@lelo:~$ sudo nmap -sT 192.168.50.101
Starting Nmap 7.94SVN ( https://nmap.org ) at 2024-06-26 15:52 CEST
Nmap scan report for 192.168.50.101
Host is up (0.029s 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  rmi
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
MAC Address: 08:00:27:E1:A5:6A (Oracle VirtualBox virtual NIC)

Nmap done: 1 IP address (1 host up) scanned in 13.73 seconds

lelo@lelo:~$
```