REPORT - EPICODE

S5L3

PRESENTED BY

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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 SYN?
- Version detection.

E la seguente sul target Windows 7:

• OS fingerprint.

OS FINGERPRINT

```
File Actions Edit View Help

PORT STATE SERVICE
21/tcp open ftp
22/tcp open ftp
22/tcp open ssh
23/tcp open sth
23/tcp open sth
33/tcp open domain
86/tcp open sth
111/tcp open prebind
111/tcp open prebind
111/tcp open prebind
111/tcp open microsoft-ds
512/tcp open dicrosoft-ds
512/tcp open stell
11099/tcp open stell
11099/tcp open stell
1099/tcp open stell
1099/tc
```

SYN SCAN

```
)-[/home/kali]
    nmap -sS 192.168.49.101
Starting Nmap 7.94SVN ( https://nmap.org ) at 2024-02-21 15:08 EST
Nmap scan report for 192.168.49.101
Host is up (0.28s latency).
Not shown: 977 closed tcp ports (reset)
PORT
        STATE SERVICE
         open ftp
open ssh
open telnet
21/tcp
22/tcp
23/tcp
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 2.06 seconds
```



TCP

Nmap - ST completa il 3-way-handshake, creando così il canale. Recupera info sullo stato della porta, è dunque una tecnica di scanning più identificabile e che su grosse reti potrebbe creare congestioni di rete.

```
kali)-[/home/kali]
    nmap -sT 192.168.49.101
Starting Nmap 7.94SVN ( https://nmap.org ) at 2024-02-21 15:07 EST
Nmap scan report for 192.168.49.101
Host is up (0.032s latency).
Not shown: 977 closed tcp ports (conn-refused)
         STATE SERVICE
PORT
21/tcp
        open ftp
22/tcp
              ssh
        open
23/tcp
        open telnet
25/tcp
        open smtp
53/tcp
        open domain
80/tcp
             http
        open
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 1.95 seconds

WINDOWS - OS DETECTION

Procediamo con l'identificazione OS di Windows, agisce allo stesso modo di Meta, andando a rintracciare lo stato delle porte dall'IP di Windows e notiamo una differenza: la presenza dei *demoni*: un <u>programma eseguito in background</u>, cioè senza che sia sotto il <u>controllo diretto dell'utente</u>, tipicamente fornendo un servizio all'utente. Principalmente viene utilizzato sui server ma anche su normali PC.

```
mmap -0 192.168.50.102

Minary scan report for 192.168.50.102

Most shown: 991 closed top ports (reset)

Most shown: 991 closed top ports (reset)

PORT STATE SERVICE

1337/tcp open metpo-

1397/tcp open metpo-

1397/tcp open microsoft-ds

5357/tcp open microsoft-ds

5357/tcp open wsdapi

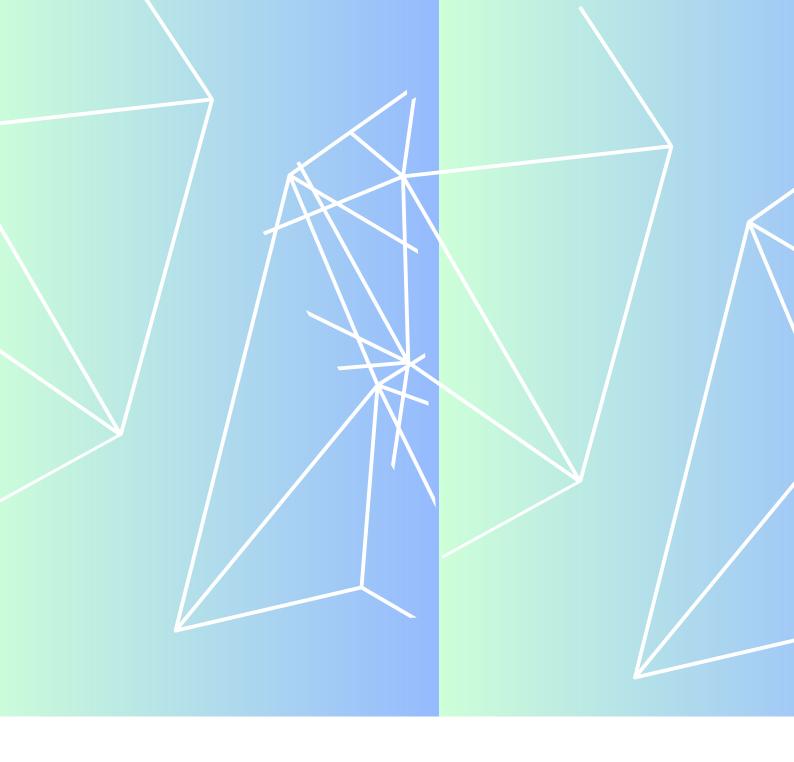
49153/tcp open unknown

505 cert open unknown

50
```

```
kali)-[/home/kali]
 -# nmap -sV 192.168.50.102
Starting Nmap 7.94SVN ( https://nmap.org ) at 2024-02-21 15:55 EST
Nmap scan report for 192.168.50.102
Host is up (0.00075s latency).
Not shown: 991 closed tcp ports (reset)
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)
                      Microsoft HTTPAPI httpd 2.0 (SSDP/UPnP)
5357/tcp open http
                           Microsoft Windows RPC
49152/tcp open msrpc
                           Microsoft Windows RPC
49153/tcp open msrpc
49154/tcp open msrpc
                           Microsoft Windows RPC
                           Microsoft Windows RPC
49155/tcp open msrpc
                           Microsoft Windows RPC
49156/tcp open msrpc
MAC Address: 08:00:27:0A:A3:AD (Oracle VirtualBox virtual NIC)
Service Info: Host: ALE-PC; 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 60.81 seconds



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