# S5L3, BENVENUTI LUIGI

# 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.

E la seguente sul target Windows 7:

• OS fingerprint.

## 1- Metasploitable

**1a** - Per visualizzare l'OS fingerprint della macchina target Metaspolitable si utilizza il comando

## nmap -O iptarget -osscan-guess

## Output:

**1b** - Effettuiamo poi un Syn Scan con il comando:

nmap -sS iptarget

```
kali)-[/home/kali]
            nmap -sS 192.168.49.101
 Starting Nmap 7.94SVN ( https://nmap.org ) at 2024-02-21 10:07 EST
 Nmap scan report for 192.168.49.101
 Host is up (0.016s latency).
 Not shown: 977 closed tcp ports (reset)
                                    STATE
 PORT
                                                                        SERVICE
  21/tcp
                                    open
                                                                         ftp
  22/tcp open
                                                                         ssh
                                                                        telnet
 23/tcp open
 25/tcp open
                                                                        smtp
 53/tcp open domain
 80/tcp filtered http
80/tcp fitteres for a contract of the contract
 1099/tcp open
                                                                  rmiregistry
                                                                   ingreslock
 1524/tcp open
 2049/tcp open
                                                                        nfs
  2121/tcp open
                                                                        ccproxy-ftp
                                                                        mysql
  3306/tcp open
  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 14.90 seconds
```

**1c** - Effettuiamo poi un TCP Connect con il comando:

## nmap -sT iptarget

Non ci sono differenze con la scansione precedente.

```
kali)-[/home/kali]
map -sT 192.168.49.101
Starting Nmap 7.94SVN ( https://nmap.org ) at 2024-02-21 10:07 EST
Nmap scan report for 192.168.49.101
Host is up (0.037s latency).
Not shown: 977 closed tcp ports (conn-refused)
PORT
     SVSSTATE
              SERVICE
21/tcp open
                 ftp
22/tcp open
                 ssh
23/tcp open
                 telnet
25/tcp open
                 smtp
53/tcp open
                 domain
80/tcp filtered http
111/tcp open
                 rpcbind
                 netbios-ssn
139/tcp open
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
                 unknown
8180/tcp open
Nmap done: 1 IP address (1 host up) scanned in 14.70 seconds
```

#### 1d - Version detection:

nmap -sV target

```
nmap -sV 192.168.49.101
Starting Nmap 7.94SVN ( https://nmap.org ) at 2024-02-21 10:09 EST Nmap scan report for 192.168.49.101
Host is up (0.039s latency).
Not shown: 977 closed tcp ports (reset)
                             SERVICE
ftp
ssh
                                                  vsftpd 2.3.4
OpenSSH 4.7pl Debian 8ubuntu1 (protocol 2.0)
              open
22/tcp
              open
23/tcp
25/tcp
                              telnet
                                                  Linux telnetd
Postfix smtpd
                              smtp
domain
              open dome
open dome
filtered http
rpcbind
rectbios-
              open
53/tcp
                                                  ISC BIND 9.4.2
80/tcp
111/tcp
139/tcp
445/tcp
                                                  2 (RPC #100000)
                              netbios-ssn Samba smbd 3.X - 4.X (workgroup: WORKGROUP)
netbios-ssn Samba smbd 3.X - 4.X (workgroup: WORKGROUP)
              open
512/tcp open
513/tcp open
                                                  netkit-rsh rexecd
                              login?
shell
513/tcp open
514/tcp open
1099/tcp open
1524/tcp open
2049/tcp open
2121/tcp open
                              java-rmi GNU Classpath grmiregistry
bindshell Metasploitable root shell
                              3306/tcp open
5432/tcp open
5900/tcp open
6000/tcp open
6667/tcp open
                                                 (access denied)
UnrealIRCd
8009/tcp open ajp13 Apache Jserv (Protocol v1.3)
8180/tcp open http Apache Tomcat/Coyote JSP engine 1.1
Service Info: Hosts: metasploitable.localdomain, irc.Metasploitable.LAN; OSs: Unix, Linux; CPE: cpe:/o:linux:linux_kernel
Service detection performed. Please report any incorrect results at https://nmap.org/submit/ . Nmap done: 1 IP address (1 host up) scanned in 27.16 seconds
```

## 2a - OS fingerprint Win7:

#### nmap -O iptarget -osscan-guess

```
| Section | Proceedings | Procedings | Proceedings | Proceedings | Procedings | Procedings
```

Il firewall ci impedisce di ottenere informazioni. Settiamo su rete domestica e disattiviamo il firewall di Win7. Ripetiamo il comando precedente:

#### 2b - fixing OS fingerprint Win7:

```
| Image -0 192.188.30.182 -- osscan-guess |
Starting Namay -0 192.188.30.182 |
Starting Namay -0 192.182 |
Starting N
```