S5-L3 Epicode Cybersecurity

Scansione dei servizi con nmap

Per la consegna di oggi ci viene richieste diverse scansioni con nmap, prima tra dispositivi su reti diverse e, successivamente, sulla stessa rete. Effettuando le scansioni su reti diverse l'esito sarà sempre negativo perchè le macchine non comunicano tra loro, come nell'immagine che segue:

\$ sudo nmap -Pn -0 192.168.40.105
Starting Nmap 7.94 (https://nmap.org) at 2023-12-20 12:47 CET
mass_dns: warning: Unable to open /etc/resolv.conf. Try using --system-dns or specify
valid servers with --dns-servers: No such file or directory (2)
mass_dns: warning: Unable to determine any DNS servers. Reverse DNS is disabled. Try

using --system-dns or specify valid servers with --dns-servers Nmap scan report for 192.168.40.105

Host is up.
All 1000 scanned ports on 192.168.40.105 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 214.41 seconds

Fatto questo test mettiamo le macchine in comunicazione e continuiamo l'esercizio:

0

ta

```
└$ sudo nmap -Pn -0 192.168.32.105
Starting Nmap 7.94 ( https://nmap.org ) at 2023-12-20 11:11 CET
mass dns: warning: Unable to open /etc/resolv.conf. Try using --system-dns or specify
valid servers with --dns-servers: No such file or directory (2)
mass_dns: warning: Unable to determine any DNS servers. Reverse DNS is disabled. Try
using --system-dns or specify valid servers with --dns-servers
Nmap scan report for 192.168.32.105
Host is up (0.014s 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
               domain
         open
80/tcp
         open
               http
111/tcp open
               rpcbind
139/tcp
        open
               netbios-ssn
445/tcp open
               microsoft-ds
512/tcp
        open
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
               mysql
3306/tcp open
5432/tcp open
               postgresql
5900/tcp open
              vnc
6000/tcp open
               X11
6667/tcp open
              irc
8009/tcp open aip13
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
```

```
—5 sudo nmap -sS 192.168.32.105
Starting Nmap 7.94 ( https://nmap.org ) at 2023-12-20 10:52 CET
mass_dns: warning: Unable to open /etc/resolv.conf. Try using --system-dns or specify
valid servers with --dns-servers: No such file or directory (2)
mass dns: warning: Unable to determine any DNS servers. Reverse DNS is disabled. Try
using --system-dns or specify valid servers with --dns-servers
Nmap scan report for 192.168.32.105
Host is up (0.035s 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
        open domain
53/tcp
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 0.87 seconds
```

Syn

Scan

Meta

```
└$ sudo nmap -sT 192.168.32.105
Starting Nmap 7.94 ( https://nmap.org ) at 2023-12-20 11:05 CET
mass dns: warning: Unable to open /etc/resolv.conf. Try using --system-dns or specify
valid servers with --dns-servers: No such file or directory (2)
mass dns: warning: Unable to determine any DNS servers. Reverse DNS is disabled. Try
using --system-dns or specify valid servers with --dns-servers
Nmap scan report for 192.168.32.105
Host is up (0.042s latency).
Not shown: 977 closed tcp ports (conn-refused)
         STATE SERVICE
PORT
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 0.78 seconds
```

TCP

Scan

Meta

```
S sudo nmap -sV 192.168.32.105
[sudo] password for kali:
Starting Nmap 7.94 ( https://nmap.org ) at 2023-12-20 12:08 CET
                                                                                      Version
mass dns: warning: Unable to open /etc/resolv.conf. Try using --system-dns or specify
 valid servers with --dns-servers: No such file or directory (2)
mass dns: warning: Unable to determine anv DNS servers. Reverse DNS is disabled. Trv
using --system-dns or specify valid servers with --dns-servers
                                                                                      Detection
Nmap scan report for 192.168.32.105
Host is up (0.032s latency).
Not shown: 977 closed tcp ports (reset)
PORT
         STATE SERVICE
                           VERSTON
                                                                                      Meta
21/tcp
         open ftp
                           vsftpd 2.3.4
                           OpenSSH 4.7p1 Debian 8ubuntu1 (protocol 2.0)
22/tcp
         open ssh
23/tcp
         open telnet?
25/tcp
                           Postfix smtpd
         open smtp
53/tcp
         open domain
                           ISC BIND 9.4.2
80/tcp
         open http
                           Apache httpd 2.2.8 ((Ubuntu) DAV/2)
111/tcp open rpcbind
                           2 (RPC #100000)
139/tcp open netbios-ssn Samba smbd 3.X - 4.X (workgroup: WORKGROUP)
445/tcp open netbios-ssn Samba smbd 3.X - 4.X (workgroup: WORKGROUP)
512/tcp open exec?
513/tcp open login?
514/tcp open shell?
1099/tcp open java-rmi
                           GNU Classpath grmiregistry
1524/tcp open bindshell
                           Metasploitable root shell
2049/tcp open nfs
                            2-4 (RPC #100003)
2121/tcp open ccproxy-ftp?
3306/tcp open mysql?
5432/tcp open postgresql
                            PostgreSQL DB 8.3.0 - 8.3.7
5900/tcp open vnc
                           VNC (protocol 3.3)
6000/tcp open X11
                            (access denied)
6667/tcp open irc
                           UnrealIRCd
8009/tcp open ajp13
                           Apache Jserv (Protocol v1.3)
8180/tcp open http
                           Apache Tomcat/Coyote JSP engine 1.1
<u>Service Info: Hosts:</u> metasploitable.localdomain, irc.Metasploitable.LAN; OSs: Unix,
Linux: CPE: cpe:/o:linux:linux kernel
<u>Service detection per</u>formed. Please report any incorrect results at https://nmap.org/
submit/ .
Nmap done: 1 IP address (1 host up) scanned in 180.73 seconds
```

```
sudo nmap -Pn -0 192.168.32.101
                                                                                        0
Starting Nmap 7.94 ( https://nmap.org ) at 2023-12-20 11:20 CET
mass dns: warning: Unable to open /etc/resolv.conf. Try using --system-dns or specify
 valid servers with --dns-servers: No such file or directory (2)
mass dns: warning: Unable to determine any DNS servers. Reverse DNS is disabled. Try
using --system-dns or specify valid servers with --dns-servers
Nmap scan report for 192.168.32.101
Host is up (0.0047s latency).
All 1000 scanned ports on 192.168.32.101 are in ignored states.
Not shown: 1000 filtered tcp ports (no-response)
Warning: OSScan results may be unreliable because we could not find at least 1 open a
nd 1 closed port
Device type: specialized|VoIP phone|general purpose|phone
Running: Allen-Bradley embedded, Atcom embedded, Microsoft Windows 7/8/Phone/XP/2012,
Palmmicro embedded. VMware Plaver
                                                                                        n
OS CPE: cpe:/h:allen-bradley:micrologix_1100 cpe:/h:atcom:at-320 cpe:/o:microsoft:win
dows_7 cpe:/o:microsoft:windows_8 cpe:/o:microsoft:windows cpe:/o:microsoft:windows_x
```

OS details: Allen Bradley MicroLogix 1100 PLC, Atcom AT-320 VoIP phone, Microsoft Win dows Embedded Standard 7, Microsoft Windows 8.1 Update 1, Microsoft Windows Phone 7.5 or 8.0, Microsoft Windows XP SP3 or Windows 7 or Windows Server 2012, Palmmicro AR16

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

W

n

d o

Nmap done: 1 IP address (1 host up) scanned in 208.14 seconds

88 VoIP module. VMware Plaver virtual NAT device

p::sp3 cpe:/o:microsoft:windows_server_2012 cpe:/a:vmware:player