Traccia

Questo esercizio può essere utile per lo studente per prendere dimestichezza con i vari comandi di nmap. Poiché su Linux è un potente tool di scansione della rete, si richiede di utilizzare i seguenti comandi e trascrivere i vari risultati su un report:

- 1. TCP: # nmap -sS ip address,sT
- 2. scansione completa: # nmap -sV ip address
- 3. output su file: # nmap -sV -oN file.txt ip address
- 4. scansione su porta: # nmap -sS -p 8080 ip address
- 5. scansione tutte le porte: # nmap -sS -p ip address
- 6. scansione UDP: # nmap -sU -r -v ip address
- 7. scansione sistema operativo: # nmap -O ip address
- 8. scansione versione servizi: # nmap -sV ip address
- 9. scansione common 100 ports: # nmap -F ip address
- 10. scansione tramite ARP: # nmap -PR ip address
- 11. scansione tramite PING: # nmap -sP ip address
- 12. scansione senza PING: # nmap -PN ip address

```
-(kali⊕kali)-[~]
$ <u>sudo</u> nmap -sS 192.168.50.101
Starting Nmap 7.94 ( https://nmap.org ) at 2024-01-20 18:53 CET
Nmap scan report for 192.168.50.101
Host is up (0.00068s 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
open http
53/tcp
80/tcp
111/tcp open rpcbind
139/tcp open netbios-ssn
445/tcp open microsoft-ds
512/tcp open exec
513/tcp open logic
              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
MAC Address: 08:00:27:18:5C:9A (Oracle VirtualBox virtual NIC)
Nmap done: 1 IP address (1 host up) scanned in 13.40 seconds
```

```
–(kali⊛kali)-[~]
sudo nmap -sT 192.168.50.101
Starting Nmap 7.94 ( https://nmap.org ) at 2024-01-20 18:54 CET
Nmap scan report for 192.168.50.101
Host is up (0.0013s 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
MAC Address: 08:00:27:18:5C:9A (Oracle VirtualBox virtual NIC)
Nmap done: 1 IP address (1 host up) scanned in 13.40 seconds
```

```
192.168.50.101
 Starting Nmap 7.94 ( https://nmap.org ) at 2024-01-20 18:57 CET
Starting Nmap 7.94 (https://nmap.org )
Nmap scan report for 192.168.50.101
Host is up (0.00028s latency).
Not shown: 977 closed tcp ports (reset)
PORT STATE SERVICE VERSION
21/tcp open ftp vsftpd 2.3.4
22/tcp open ssh OpenSSH 4.7p
23/tcp open telnet Linux telnet
                                                   vsftpd 2.3.4
OpenSSH 4.7p1 Debian 8ubuntu1 (protocol 2.0)
23/tcp
25/tcp
                                                   Linux telnetd
Postfix smtpd
               open smtp
 53/tcp
                            domain
                                                   ISC BIND 9.4.2
                                                   Apache httpd 2.2.8 ((Ubuntu) DAV/2)
2 (RPC #100000)
80/tcp open http
111/tcp open rpcbind
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 netkit-rsh rexect
 513/tcp open
514/tcp open shell
1099/tcp open java-r
                                                   Netkit rshd
GNU Classpath grmiregistry
                            java-rmi
1524/tcp open bindshell
2049/tcp open nfs
2121/tcp open ftp
                                                   Metasploitable root shell
2049/tcp open nfs 2-4 (RPC #100003)
2121/tcp open ftp ProFTPD 1.3.1
3306/tcp open mysql MySQL 5.0.51a-3ubuntu5
5432/tcp open postgresql PostgreSQL DB 8.3.0 - 8.3.7
5900/tcp open vnc VNC (protocol 3.3)
 6000/tcp open
                                                    (access denied)
 6667/tcp open irc
                                                   UnrealIRCd
8009/tcp open ajp13
8180/tcp open http
                                                   Apache Jserv (Protocol v1.3)
Apache Tomcat/Coyote JSP engine 1.
MAC Address: 08:00:27:18:5C:9A (Oracle VirtualBox virtual NIC)
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 66.67 seconds
```

```
(kali@ kali)-[~]
$ nmap -sV -oN file.txt 192.168.50.101
Starting Nmap 7.94 ( https://nmap.org ) at 2024-01-20 19:11 CET
Nmap scan report for 192.168.50.101
Host is up (0.0016s latency).
Not shown: 977 closed tcp ports (conn-refused)
             STATE SERVICE
             open ftp
open ssh
                                              vsftpd 2.3.4
OpenSSH 4.7p1 Debian 8ubuntu1 (protocol 2.0)
22/tcp
              open telnet
                                                Linux telnetd
                                            Postfix smtpd
ISC BIND 9.4.2
              open smtp
open domain
25/tcp
53/tcp
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?
                                               netkit-rsh rexecd
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 ftp ProFTPD 1.3.1
3306/tcp open mysql MySQL 5.0.51a-3ubuntu5
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)
                                                 (access denied)
6667/tcp open irc
                                                UnrealIRCd
8009/tcp open ajp13
8180/tcp open http
                                            Apache Jserv (Protocol v1.3)
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 66.48 seconds
```

```
(kali® kali)-[~]
$ sudo nmap -sS -p 8080 192.168.50.101
[sudo] password for kali:
Starting Nmap 7.94 ( https://nmap.org ) at 2024-01-20 19:15 CET
Nmap scan report for 192.168.50.101
Host is up (0.00054s latency).

PORT STATE SERVICE
8080/tcp closed http-proxy
MAC Address: 08:00:27:18:5C:9A (Oracle VirtualBox virtual NIC)
Nmap done: 1 IP address (1 host up) scanned in 13.28 seconds
```

```
(kali⊕kali)-[~]
 -$ <u>sudo</u> nmap -P 192.168.50.101
Starting Nmap 7.94 ( https://nmap.org ) at 2024-01-21 10:14 CET
Nmap scan report for 192.168.50.101
Host is up (0.00031s latency).
Not shown: 977 closed tcp ports (reset)
        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
MAC Address: 08:00:27:18:5C:9A (Oracle VirtualBox virtual NIC)
Nmap done: 1 IP address (1 host up) scanned in 13.46 seconds
```

```
(kali@ kali)-[~]

S sudo nmap -5U -r ~v 192.168.50.101

Starting Nap 7.94 ( https://mmap.org ) at 2024-01-20 19:21 CET
Initiating ARP Ping Scan at 19:21

Completed ARP Ping Scan at 19:21, 0.11s elapsed (1 total hosts)
Initiating Parallel DNS resolution of 1 host. at 19:21

Completed Parallel DNS resolution of 1 host. at 19:21, 13.00s elapsed
Initiating parallel DNS resolution of 1 host. at 19:21, 13.00s elapsed
Initiating USP Scan at 19:21

Scanning 192.168.50.101 [1000 ports]

Discovered open port 53/udp on 192.168.50.101

Discovered open port 111/udp on 192.168.50.101

Increasing send delay for 192.168.50.101 from 0 to 50 due to max_successful_tryno increase to 4

Increasing send delay for 192.168.50.101 from 50 to 100 due to max_successful_tryno increase to 5

Increasing send delay for 192.168.50.101 from 100 to 200 due to max_successful_tryno increase to 6

Increasing send delay for 192.168.50.101 from 200 to 400 due to max_successful_tryno increase to 7

Increasing send delay for 192.168.50.101 from 200 to 400 due to max_successful_tryno increase to 7

Increasing send delay for 192.168.50.101 from 200 to 400 due to max_successful_tryno increase to 7

Increasing send delay for 192.168.50.101 from 200 to 400 due to max_successful_tryno increase to 7

Increasing send delay for 192.168.50.101 from 200 to 400 due to max_successful_tryno increase to 7

Increasing send delay for 192.168.50.101

UDP Scan Timing: About 3.66% done; ETC: 19:35 (0:13:37 remaining)

UDP Scan Timing: About 3.97.2% done; ETC: 19:37 (0:12:03 remaining)

UDP Scan Timing: About 32.72% done; ETC: 19:37 (0:12:03 remaining)

UDP Scan Timing: About 32.73% done; ETC: 19:38 (0:09:23 remaining)

UDP Scan Timing: About 44.14% done; ETC: 19:38 (0:09:23 remaining)

UDP Scan Timing: About 54.52% done; ETC: 19:38 (0:09:23 remaining)

UDP Scan Timing: About 54.52% done; ETC: 19:38 (0:09:41 remaining)

UDP Scan Timing: About 59.76% done; ETC: 19:38 (0:09:41 remaining)

UDP Scan Timing: About 59.76% done; ETC: 19:38 (0:09:41 remaining)

UDP Scan Timing: A
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UDP Scan Timing: About 85.90% done; ETC: 19:38 (0:02:23 remaining)
UDP Scan Timing: About 91.04% done; ETC: 19:38 (0:01:31 remaining)
UDP Scan Timing: About 96.19% done; ETC: 19:38 (0:00:39 remaining)
Completed UDP Scan at 19:38, 1053.17s elapsed (1000 total ports)
Nmap scan report for 192.168.50.101
Host is up (0.00071s latency).
Not shown: 994 closed udp ports (port-unreach)
PORT
        STATE
                      SERVICE
53/udp
        open
                      domain
69/udp open|filtered tftp
111/udp open
                      rpcbind
137/udp open
                      netbios-ns
138/udp open|filtered netbios-dgm
2049/udp open
                      nfs
MAC Address: 08:00:27:18:5C:9A (Oracle VirtualBox virtual NIC)
Read data files from: /usr/bin/../share/nmap
Nmap done: 1 IP address (1 host up) scanned in 1066.46 seconds
          Raw packets sent: 1446 (66.532KB) | Rcvd: 1090 (79.483KB)
__(kali⊕ kali)-[~]
```

```
$\sudo nmap -0 192.168.50.101
[sudo] password for kali:
Starting Nmap 7.94 (https://nmap.org) at 2024-01-20 19:45 CET
Nmap scan report for 192.168.50.101
Host is up (0.0011s latency).
Not shown: 977 closed tcp ports (reset)
       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
MAC Address: 08:00:27:18:5C:9A (Oracle VirtualBox virtual NIC)
Device type: general purpose
Running: Linux 2.6.X
OS CPE: cpe:/o:linux:linux_kernel:2.6
```

```
2121/tcp open ccproxy-ftp
3306/tcp open mysql
5432/tcp open
              postgresql
              vnc
5900/tcp open
6000/tcp open X11
6667/tcp open irc
8009/tcp open ajp13
8180/tcp open unknown
MAC Address: 08:00:27:18:5C:9A (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
OS detection performed. Please report any incorrect results at https://nmap.org/submit/ .
Nmap done: 1 IP address (1 host up) scanned in 15.03 seconds
```

```
(kali) = [~]

smap -sV 192.168.50.101

Starting Nmap 7.94 ( https://nmap.org ) at 2024-01-21 09:59 CET

Nmap scan report for 192.168.50.101

Host is up (0.0033s latency).

Not shown: 977 closed tcp ports (conn-refused)

POPT STATE SERVICE VERSION
Not shown: 977 closed to
PORT STATE SERVICE
21/tcp open ftp
22/tcp open ssh
23/tcp open telnet
                                                    vsftpd 2.3.4
                                                    OpenSSH 4.7p1 Debian 8ubuntu1 (protocol 2.0)
23/tcp
25/tcp
                                                    Linux telnetd
Postfix smtpd
               open smtp
open domain
                                                    ISC BIND 9.4.2
 53/tcp
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
                                                    netkit-rsh rexecd
513/tcp open login?
514/tcp open shell
                                                    Netkit rshd
 1099/tcp open
                                                    GNU Classpath grmiregistry
1099/tcp open java-imi one ctasspath g.m. 35
1524/tcp open bindshell Metasploitable root shell
2049/tcp open nfs 2-4 (RPC #100003)
2121/tcp open ftp ProFTPD 1.3.1
 3306/tcp open mysql
                                                    MySQL 5.0.51a-3ubuntu5
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
Service Info: Hosts: metasploitable.localdomain, irc.Metasploitable.LAN; OSs: Unix, Linux; CPE: cpe:/o:linux:linux_kernel
8009/tcp open ajp13
8180/tcp open http
Service detection performed. Please report any incorrect results at https://nmap.org/submit/ .
Nmap done: 1 IP address (1 host up) scanned in 66.94 seconds
```

```
—(kali⊕kali)-[~]
$ nmap -F 192.168.50.101
Starting Nmap 7.94 ( https://nmap.org ) at 2024-01-21 10:02 CET
Nmap scan report for 192.168.50.101
Host is up (0.0064s latency).
Not shown: 82 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
513/tcp open login
514/tcp open shell
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
8009/tcp open ajp13
Nmap done: 1 IP address (1 host up) scanned in 13.16 seconds
```

```
Starting Nmap 7.94 ( https://nmap.org ) at 2024-01-21 10:04 CET
Nmap scan report for 192.168.50.101
Host is up (0.0012s 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 tethet
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 13.35 seconds
```

```
(kali@kali)-[~]
$ nmap -sP 192.168.50.101
Starting Nmap 7.94 ( https://nmap.org ) at 2024-01-21 10:05 CET
Nmap scan report for 192.168.50.101
Host is up (0.0013s latency).
Nmap done: 1 IP address (1 host up) scanned in 13.00 seconds
```

```
(kali® kali)-[~]

$ nmap | PN 192.168.50.101
Starting Nmap 7.94 ( https://nmap.org ) at 2024-01-21 10:07 CET
Nmap scan report for 192.168.50.101
Host is up (0.0059s 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 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 13.25 seconds
```