Esercizio W11D4

Network

192.168.1.0 192.168.32.0

Host

Pfsense: 192.168.1.1 **Kali:** 192.168.1.100 **Meta:** 192.168.32.100

TCP: # nmap -sS ip address

┌—(kali⊛kali)-[~]

└─\$ sudo nmap -s\$ 192.168.32.100

[sudo] password for kali:

Starting Nmap 7.94 (https://nmap.org) at 2024-01-19 13:29 EST

Nmap scan report for 192.168.32.100

Host is up (0.022s 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

23/tcp Open domai

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 0.54 seconds

Scansione completa: # nmap -sV ip address

r—(kali⊕kali)-[~] └─\$ nmap -sV 192.168.32.100 Starting Nmap 7.94 (https://nmap.org) at 2024-01-19 13:41 EST Nmap scan report for 192.168.32.100 Host is up (0.027s latency). Not shown: 977 closed tcp ports (conn-refused) PORT STATE SERVICE VERSION 21/tcp open ftp vsftpd 2.3.4 22/tcp open ssh OpenSSH 4.7p1 Debian 8ubuntu1 (protocol 2.0) 23/tcp open telnet Linux telnetd 25/tcp open smtp Postfix smtpd 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 netkit-rsh rexecd 513/tcp open login OpenBSD or Solaris rlogind 514/tcp open tcpwrapped 1099/tcp open java-rmi GNU Classpath grmiregistry 1524/tcp open bindshell Metasploitable root shell 2-4 (RPC #100003) 2049/tcp open nfs 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) UnrealIRCd 6667/tcp open irc 8009/tcp open ajp13 Apache Jserv (Protocol v1.3) Apache Tomcat/Coyote JSP engine 1.1 8180/tcp open http 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/.

Output su file: # nmap -sV -oN file.txt ip address

┌—(kali⊛kali)-[~]

└─\$ nmap -sV -oN file.txt 192.168.32.100

Starting Nmap 7.94 (https://nmap.org) at 2024-01-19 13:46 EST

Nmap done: 1 IP address (1 host up) scanned in 11.99 seconds

Nmap scan report for 192.168.32.100

Host is up (0.051s latency).

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

PORT STATE SERVICE VERSION 21/tcp open ftp vsftpd 2.3.4

22/tcp open ssh OpenSSH 4.7p1 Debian 8ubuntu1 (protocol 2.0)

23/tcp open telnet Linux telnetd

```
25/tcp open smtp
                      Postfix smtpd
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
                      netkit-rsh rexecd
513/tcp open login
                      OpenBSD or Solaris rlogind
514/tcp open tcpwrapped
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
                       MySQL 5.0.51a-3ubuntu5
3306/tcp open mysql
5432/tcp open postgresql PostgreSQL DB 8.3.0 - 8.3.7
                       VNC (protocol 3.3)
5900/tcp open vnc
6000/tcp open X11
                       (access denied)
                      UnrealIRCd
6667/tcp open irc
                       Apache Jserv (Protocol v1.3)
8009/tcp open ajp13
                       Apache Tomcat/Coyote JSP engine 1.1
8180/tcp open http
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 12.11 seconds
┌—(kali⊛kali)-[~]
└_$ Is -I
total 464
drwxr-xr-x 2 kali kali 4096 Dec 7 21:34 Desktop
drwxr-xr-x 2 kali kali 4096 Oct 27 13:24 Documents
drwxr-xr-x 2 kali kali 4096 Jan 18 14:23 Downloads
-rw-r--r-- 1 kali kali 1705 Jan 19 13:47 file.txt
-rwxr-xr-x 1 kali kali 224755 Dec 17 18:10 gameshell-save.sh
-rw-r--r-- 1 kali kali 203144 Nov 30 14:02 gameshell.sh
drwxr-xr-x 2 kali kali 4096 Oct 27 13:24 Music
-rw-r--r-- 1 kali kali 521 Jan 18 14:22 nessus
drwxr-xr-x 2 kali kali 4096 Oct 27 13:24 Pictures
drwxr-xr-x 2 kali kali 4096 Oct 27 13:24 Public
-rw-r--r-- 1 root root 819 Jan 16 13:49 scanMeta
drwxr-xr-x 2 kali kali 4096 Oct 27 13:24 Templates
drwxr-xr-x 2 kali kali 4096 Oct 27 13:24 Videos
r—(kali⊕kali)-[~]
└─$ more file.txt
# Nmap 7.94 scan initiated Fri Jan 19 13:46:56 2024 as: nmap -sV -oN file.txt 192.168.32.100
Nmap scan report for 192.168.32.100
Host is up (0.051s latency).
Not shown: 977 closed tcp ports (conn-refused)
```

Commentato [LR1]: Il comando ha creato un file di testo popolato con il risultato della scansione nmap -sV sul target

```
PORT STATE SERVICE VERSION
                    vsftpd 2.3.4
21/tcp open ftp
22/tcp open ssh
                    OpenSSH 4.7p1 Debian 8ubuntu1 (protocol 2.0)
23/tcp open telnet Linux telnetd
                     Postfix smtpd
25/tcp 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
                     netkit-rsh rexecd
513/tcp open login
                     OpenBSD or Solaris rlogind
514/tcp open tcpwrapped
1099/tcp open java-rmi GNU Classpath grmiregistry
1524/tcp open bindshell Metasploitable root shell
2049/tcp open nfs
                     2-4 (RPC #100003)
                     ProFTPD 1.3.1
2121/tcp open ftp
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
Service detection performed. Please report any incorrect results at https://nmap.org/submit/.
# Nmap done at Fri Jan 19 13:47:08 2024 -- 1 IP address (1 host up) scanned in 12.11 seconds
Scansione su porta: # nmap -sS -p 8080 ip address
┌—(kali⊕kali)-[~]
└─$ sudo nmap -sS -p 8080 192.168.32.100
Starting Nmap 7.94 (https://nmap.org) at 2024-01-19 13:54 EST
```

Scansione tutte le porte: # nmap -sS -p- ip address

Nmap scan report for 192.168.32.100 Host is up (0.0027s latency). PORT STATE SERVICE 8080/tcp closed http-proxy

r—(kali⊕kali)-[~]

L\$ sudo nmap -sS -p- 192.168.32.100

Starting Nmap 7.94 (https://nmap.org) at 2024-01-19 14:15 EST

Nmap scan report for 192.168.32.100

Host is up (0.071s latency).

Not shown: 65505 closed tcp ports (reset)

PORT STATE SERVICE

21/tcp open ftp

Nmap done: 1 IP address (1 host up) scanned in 0.19 seconds

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 3632/tcp open distccd 5432/tcp open postgresql 5900/tcp open vnc 6000/tcp open X11 6667/tcp open irc 6697/tcp open ircs-u 8009/tcp open ajp13 8180/tcp open unknown 8787/tcp open msgsrvr 36198/tcp open unknown 44391/tcp open unknown 45207/tcp open unknown 50526/tcp open unknown

22/tcp open ssh

Scansione UDP: # nmap -sU -r -v ip address

┌──(kali��kali)-[~]

└─\$ sudo nmap -sU -r -v 192.168.32.100

Starting Nmap 7.94 (https://nmap.org) at 2024-01-19 14:18 EST

Nmap done: 1 IP address (1 host up) scanned in 48.60 seconds

Initiating Ping Scan at 14:18

Scanning 192.168.32.100 [4 ports]

Completed Ping Scan at 14:18, 0.07s elapsed (1 total hosts)

Initiating Parallel DNS resolution of 1 host. at 14:18

Completed Parallel DNS resolution of 1 host. at 14:18, 0.00s elapsed

Initiating UDP Scan at 14:18

Scanning 192.168.32.100 [1000 ports]

Discovered open port 53/udp on 192.168.32.100

Discovered open port 111/udp on 192.168.32.100

Increasing send delay for 192.168.32.100 from 0 to 50 due to max_successful_tryno increase to 4 Increasing send delay for 192.168.32.100 from 50 to 100 due to max_successful_tryno increase to 5 Increasing send delay for 192.168.32.100 from 100 to 200 due to max_successful_tryno increase to 6 Increasing send delay for 192.168.32.100 from 200 to 400 due to max_successful_tryno increase to 7

```
Increasing send delay for 192.168.32.100 from 400 to 800 due to 11 out of 12 dropped probes since last
increase.
Discovered open port 137/udp on 192.168.32.100
UDP Scan Timing: About 3.67% done; ETC: 14:32 (0:13:34 remaining)
UDP Scan Timing: About 7.54% done; ETC: 14:34 (0:14:18 remaining)
UDP Scan Timing: About 19.93% done; ETC: 14:35 (0:13:31 remaining)
Discovered open port 2049/udp on 192.168.32.100
UDP Scan Timing: About 25.69% done; ETC: 14:35 (0:12:38 remaining)
UDP Scan Timing: About 31.36% done; ETC: 14:35 (0:11:45 remaining)
UDP Scan Timing: About 36.03% done; ETC: 14:35 (0:10:52 remaining)
UDP Scan Timing: About 41.70% done; ETC: 14:35 (0:09:57 remaining)
UDP Scan Timing: About 47.06% done; ETC: 14:35 (0:09:05 remaining)
UDP Scan Timing: About 52.32% done; ETC: 14:35 (0:08:13 remaining)
UDP Scan Timing: About 57.68% done; ETC: 14:35 (0:07:19 remaining)
UDP Scan Timing: About 62.92% done; ETC: 14:35 (0:06:24 remaining)
UDP Scan Timing: About 68.28% done; ETC: 14:35 (0:05:29 remaining)
UDP Scan Timing: About 73.42% done; ETC: 14:35 (0:04:36 remaining)
UDP Scan Timing: About 78.78% done; ETC: 14:35 (0:03:41 remaining)
UDP Scan Timing: About 84.04% done; ETC: 14:36 (0:02:46 remaining)
UDP Scan Timing: About 89.40% done; ETC: 14:36 (0:01:51 remaining)
UDP Scan Timing: About 94.48% done; ETC: 14:35 (0:00:57 remaining)
Completed UDP Scan at 14:36, 1074.71s elapsed (1000 total ports)
Nmap scan report for 192.168.32.100
Host is up (0.011s latency).
Not shown: 993 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
1020/udp open | filtered unknown
2049/udp open
                   nfs
Read data files from: /usr/bin/../share/nmap
Nmap done: 1 IP address (1 host up) scanned in 1074.90 seconds
     Raw packets sent: 1482 (68.290KB) | Rcvd: 1094 (79.771KB)
```

Scansione sistema operativo: # nmap -O ip address

└─# nmap -O 192.168.32.100

Starting Nmap 7.94 (https://nmap.org) at 2024-01-25 12:13 EST

Nmap scan report for 192.168.32.100

Host is up (0.0042s 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 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
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
OS detection performed. Please report any incorrect results at https://nmap.org/submit/.
Nmap done: 1 IP address (1 host up) scanned in 2.60 seconds
Scansione versione servizi: # nmap -sV ip address
└─# nmap -sV 192.168.32.100
Starting Nmap 7.94 (https://nmap.org) at 2024-01-25 12:15 EST
Nmap scan report for 192.168.32.100
Host is up (0.019s 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 4.7p1 Debian 8ubuntu1 (protocol 2.0)
23/tcp open telnet Linux telnetd
25/tcp open smtp
                     Postfix smtpd
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
                     netkit-rsh rexecd
513/tcp open login?
514/tcp open tcpwrapped
1099/tcp open java-rmi GNU Classpath grmiregistry
1524/tcp open bindshell Metasploitable root shell
                     2-4 (RPC #100003)
2049/tcp open nfs
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
Service detection performed. Please report any incorrect results at https://nmap.org/submit/ .
Nmap done: 1 IP address (1 host up) scanned in 12.34 seconds
Scansione common 100 ports: # nmap -F ip address
└─# nmap -F 192.168.32.100
Starting Nmap 7.94 (https://nmap.org) at 2024-01-25 12:16 EST
Nmap scan report for 192.168.32.100
Host is up (0.011s latency).
Not shown: 82 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 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 postgresal
5900/tcp open vnc
6000/tcp open X11
8009/tcp open ajp13
Nmap done: 1 IP address (1 host up) scanned in 0.22 seconds
Scansione tramite ARP: # nmap -PR ip address
└─# nmap -PR 192.168.32.100
Starting Nmap 7.94 ( https://nmap.org ) at 2024-01-25 12:18 EST
Nmap scan report for 192.168.32.100
Host is up (0.013s 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 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 0.85 seconds
Scansione tramite PING: # nmap -sP ip addres
┌──(root�skali)-[/home/kali]
└─# nmap -sP 192.168.32.100
Starting Nmap 7.94 (https://nmap.org) at 2024-01-25 12:19 EST
Nmap scan report for 192.168.32.100
Host is up (0.0018s latency).
Nmap done: 1 IP address (1 host up) scanned in 0.10 seconds
Scansione senza PING: # nmap -PN ip address
┌──(root�kali)-[/home/kali]
└─# nmap -PN 192.168.32.100
Starting Nmap 7.94 (https://nmap.org) at 2024-01-25 12:19 EST
Nmap scan report for 192.168.32.100
Host is up (0.015s 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 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 0.39 seconds