2) per rimediare il sistema operativo è bastato eseguire il comando nmap -O per entrambe le macchine, infondo potremmo leggere il sistema operativ della macchina attaccata

1) con il comando sudo nmap 192.168.1.20-30 scansioniamo tutti gli

ip che passano per il range selezionato

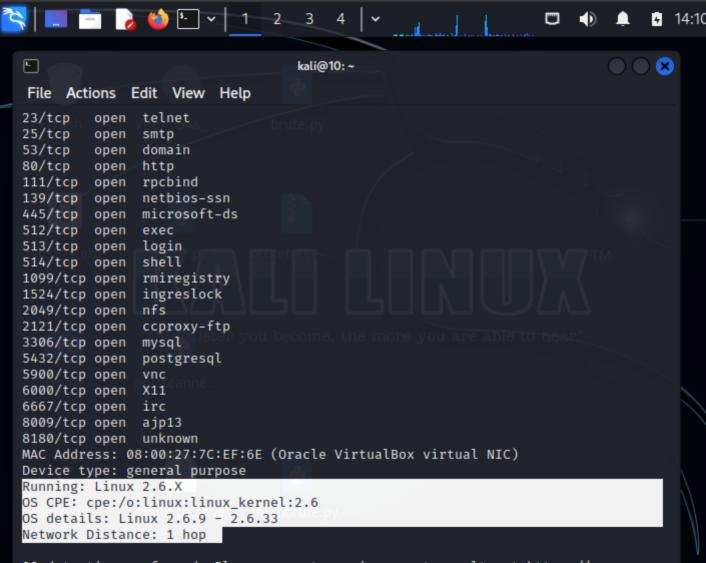
- 3) con il comando sudo nmap -A -P verso metasploitable abbiamo trovato tutte le porte aperte, a differenza di windows7 che abbiamo dovuto aggiungere il -A per renderlo piu aggressivo

 4) il comando nmap -sV IP questa opzione di Nmap cerca di
- determinare la versione dei servizi che rispondono alle porte aperte durante una scansione in allegato ci sono oltre ai screen che dimostrano i 4 precedenti
- in allegato ci sono oltre ai screen che dimostrano i 4 precedenti punti abbiamo utilizzato su meta come richiesto i camndi -sS per utlizzare solo il syn e il comando -sT dove saranno effettuate tutte e tre le strette di mano

F kali@10: ~ File Actions Edit View Help <u></u>

—\$ sudo nmap 192.168.1.20-30 Starting Nmap 7.94 (https://nmap.org) at 2023-10-25 15:18 CEST Nmap scan report for 192.168.1.20 (192.168.1.20) Host is up (0.0025s 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 smtp open 53/tcp domain open 80/tcp open http 111/tcp open rpcbind 139/tcp netbios-ssn open open microsoft-ds 445/tcp 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: 08:00:27:7C:EF:6E (Oracle VirtualBox virtual NIC) Nmap scan report for 192.168.1.21 (192.168.1.21)

Host is up (0.0062s latency). Not shown: 998 closed tcp ports (reset)



```
F
                                  kali@10: ~
File Actions Edit View Help
Nmap done: 1 IP address (0 hosts up) scanned in 1.50 seconds
 —(kali⊛10)-[~]
sudo nmap -0 192.168.1.30
Starting Nmap 7.94 (https://nmap.org) at 2023-10-25 13:13 CEST
Nmap scan report for 192.168.1.30 (192.168.1.30)
Host is up (0.0013s latency).
Not shown: 991 closed tcp ports (reset)
PORT
       STATE SERVICE
135/tcp open
               msrpc
139/tcp open netbios-ssn
445/tcp open microsoft-ds
49152/tcp open unknown
49153/tcp open unknown
49154/tcp open unknown
49155/tcp open unknown
49156/tcp open unknown
49157/tcp open unknown
MAC Address: 08:00:27:B1:FA:3B (Oracle VirtualBox virtual NIC)
Device type: general purpose
Running: Microsoft Windows 7 2008 8.1
OS CPE: cpe:/o:microsoft:windows_7::- cpe:/o:microsoft:windows_7::sp1 cpe:/o:mi
crosoft:windows_server_2008::sp1 cpe:/o:microsoft:windows_server_2008:r2 cpe:/o
:microsoft:windows_8 cpe:/o:microsoft:windows_8.1
OS details: Microsoft Windows 7 SP0 - SP1. Windows Server 2008 SP1. Windows Ser
ver 2008 R2, Windows 8, or Windows 8.1 Update 1
Network Distance: 1 hop
```

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```
(kali@10)-[~]
$ sudo nmap -P 192.168.1.30
Starting Nmap 7.94 (https://nmap.org) at 2023-10-25 15:04 CEST
Nmap scan report for 192.168.1.30 (192.168.1.30)
Host is up (0.00059s latency).
Not shown: 991 closed tcp ports (reset)
PORT STATE SERVICE
135/tcp open msrpc
139/tcp open netbios-ssn
445/tcp open microsoft-ds
49152/tcp open unknown
49153/tcp open unknown
49154/tcp open unknown
49155/tcp open unknown
49156/tcp open unknown
49157/tcp open unknown
MAC Address: 08:00:27:B1:FA:3B (Oracle VirtualBox virtual NIC)
Nmap done: 1 IP address (1 host up) scanned in 1.54 seconds
```

```
F
                                kali@10: ~
File Actions Edit View Help
—(kali⊛10)-[~]
sudo nmap -P -A 192.168.1.30
Starting Nmap 7.94 ( https://nmap.org ) at 2023-10-25 15:04 CEST
Nmap scan report for 192.168.1.30 (192.168.1.30)
Host is up (0.0010s 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 0I.aV
                         Windows 7 Enterprise 7601 Service Pack 1 microsoft-ds
(workgroup: WORKGROUP)
49152/tcp open msrpc Microsoft Windows RPC
49153/tcp open msrpc Microsoft Windows RPC
49154/tcp open msrpc Microsoft Windows RPC
49155/tcp open msrpc Microsoft Windows RPC
49156/tcp open msrpc Microsoft Windows RPC
49157/tcp open msrpc
                    Microsoft Windows RPC
MAC Address: 08:00:27:B1:FA:3B (Oracle VirtualBox virtual NIC)
```

Device type: general purpose Running: Microsoft Windows 7 2008 8.1

OS CPE: cpe:/o:microsoft:windows_7::- cpe:/o:microsoft:windows_7::sp1 cpe:/o:mic rosoft:windows_server_2008::sp1 cpe:/o:microsoft:windows_server_2008:r2 cpe:/o:m icrosoft:windows_8 cpe:/o:microsoft:windows_8.1 OS details: Microsoft Windows 7 SPO - SP1, Windows Server 2008 SP1, Windows Serv er 2008 R2, Windows 8, or Windows 8.1 Update 1 Service Info: Host: WIN; OS: Windows; CPE: cpe:/o:microsoft:windows

Network Distance: 1 hop

Host script results: smb-security-mode: account_used: guest authentication_level: user

challenge_response: supported

File Actions Edit View Help

__(kali⊛10)-[~]

F-

PORT

21/tcp

23/tcp open

25/tcp open

53/tcp open

80/tcp open 111/tcp open

139/tcp open 445/tcp open

512/tcp open

513/tcp open

sudo nmap \sv 192.168.1.20

exec?

login

514/tcp open tcpwrapped 1099/tcp open java-rmi

1524/tcp open bindshell

2049/tcp open nfs

2121/tcp open ftp

5900/tcp open vnc

6000/tcp open X11

6667/tcp open irc

8009/tcp open ajp13

8180/tcp open http

3306/tcp open mysql

Starting Nmap 7.94 (https://nmap.org) at 2023-10-25 14:17 CEST Nmap scan report for 192.168.1.20 (192.168.1.20)

Host is up (0.00096s latency).

Not shown: 977 closed tcp ports (reset)

STATE SERVICE VERSION

open ftp vsftpd 2.3.4

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

Linux telnetd

telnet

smtp Postfix smtpd

domain ISC BIND 9.4.2

http Apache httpd 2.2.8 ((Ubuntu) DAV/2)

ProFTPD 1.3.1

rpcbind 2 (RPC #100000)

netbios-ssn Samba smbd 3.X - 4.X (workgroup: WORKGROUP) netbios-ssn Samba smbd 3.X - 4.X (workgroup: WORKGROUP)

OpenBSD or Solaris rlogind

GNU Classpath grmiregistry

Metasploitable root shell 2-4 (RPC #100003)

MvSQL 5.0.51a-3ubuntu5

5432/tcp open postgresql PostgreSQL DB 8.3.0 - 8.3.7 VNC (protocol 3.3) (access denied)

UnrealIRCd Apache Jserv (Protocol v1.3)

Apache Tomcat/Coyote JSP engine 1.1 MAC Address: 08:00:27:7C:EF:6E (Oracle VirtualBox virtual NIC)

Service Info: Hosts: metasploitable.localdomain, irc.Metasploitable.LAN; OSs: U nix, Linux; CPE: cpe:/o:linux:linux_kernel



53/tcp

80/tcp

1099/tcp open

6000/tcp open

6667/tcp open

8009/tcp open

8180/tcp open



File Actions Edit View Help

—(kali⊛10)-[~] sudo nmap -sS 192.168.1.20 Starting Nmap 7.94 (https://nmap.org) at 2023-10-25 14:11 CEST Nmap scan report for 192.168.1.20 (192.168.1.20) Host is up (0.0019s latency). Not shown: 977 closed tcp ports (reset) PORT STATE SERVICE 21/tcp ftp open 22/tcp open ssh 23/tcp telnet open 25/tcp open smtp

111/tcp open rpcbind 139/tcp open netbios-ssn microsoft-ds 445/tcp open 512/tcp open exec 513/tcp open login 514/tcp open shell

open

open

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

X11

irc

ajp13

unknown

rmiregistry

domain

http

MAC Address: 08:00:27:7C:EF:6E (Oracle VirtualBox virtual NIC)

Nmap done: 1 IP address (1 host up) scanned in 0.27 seconds

```
F-
                                  kali@10: ~
File
     Actions Edit View Help
 —(kali⊛10)-[~]
sudo nmap -sT 192.168.1.20
Starting Nmap 7.94 ( https://nmap.org ) at 2023-10-25 14:13 CEST
Nmap scan report for 192.168.1.20 (192.168.1.20)
Host is up (0.00054s 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
              domain
       open
80/tcp
              http
        open
111/tcp open
              rpcbind
139/tcp
              netbios-ssn
       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
8180/tcp open
              unknown
MAC Address: 08:00:27:7C:EF:6E (Oracle VirtualBox virtual NIC)
Nmap done: 1 IP address (1 host up) scanned in 0.27 seconds
```

```
---(kali⊛10)-[~]
_$ sudo nmap \+A - +T4 \192.168.1.30
Starting Nmap 7.94 ( https://nmap.org ) at 2023-10-25 14:22 CEST
Nmap scan report for 192.168.1.30 (192.168.1.30)
Host is up (0.0016s 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
                           Windows 7 Enterprise 7601 Service Pack 1 microsoft-d
445/tcp open
s (workgroup: WORKGROUP)
49152/tcp open msrpc
                          Microsoft Windows RPC
49153/tcp open msrpc
                          Microsoft Windows RPC
49154/tcp open msrpc
                          Microsoft Windows RPC
49155/tcp open msrpc Microsoft Windows RPC
49156/tcp open msrpc Microsoft Windows RPC
49157/tcp open msrpc Microsoft Windows RPC
MAC Address: 08:00:27:B1:FA:3B (Oracle VirtualBox virtual NIC)
Device type: general purpose
Running: Microsoft Windows 7 2008 8.1
OS CPE: cpe:/o:microsoft:windows_7::- cpe:/o:microsoft:windows_7::sp1 cpe:/o:mic
rosoft:windows_server_2008::sp1 cpe:/o:microsoft:windows_server_2008:r2 cpe:/o:m
icrosoft:windows_8 cpe:/o:microsoft:windows_8.1
OS details: Microsoft Windows 7 SP0 - SP1, Windows Server 2008 SP1, Windows Serv
er 2008 R2, Windows 8, or Windows 8.1 Update 1
Network Distance: 1 hop
Service Info: Host: WIN; OS: Windows; CPE: cpe:/o:microsoft:windows
Host script results:
 smb-os-discovery:
   OS: Windows 7 Enterprise 7601 Service Pack 1 (Windows 7 Enterprise 6.1)
```

rile Actions Edit view Helb

OS CPE: cpe:/o:microsoft:windows 7::sp1