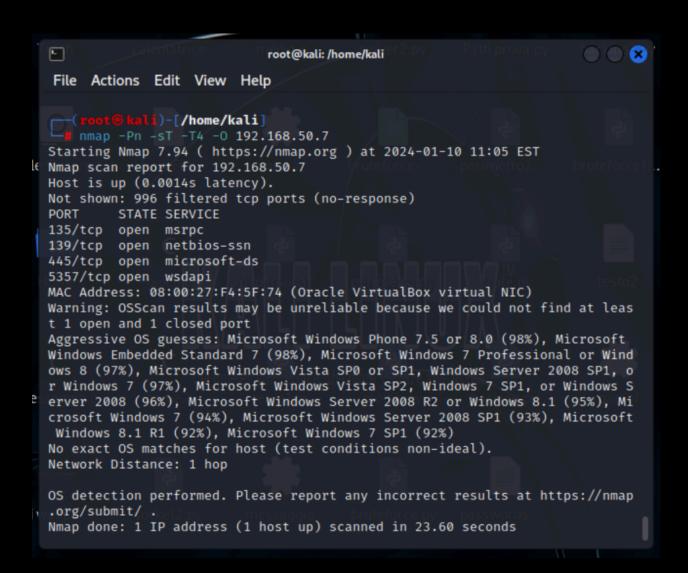
Tecniche scansione Nmap

Richiesta OS fingerprint, target Windows 7.

```
(root@ kali)-[/home/kali]
mmap -sV 192.168.50.7
Starting Nmap 7.94 ( https://nmap.org ) at 2024-01-10 10:29 EST
Nmap scan report for 192.168.50.7
Host is up (0.00088s latency).
Not shown: 996 filtered tcp ports (no-response)
        STATE SERVICE
PORT
                           VERSION
135/tcp open msrpc
                           Microsoft Windows RPC
139/tcp open netbios-ssn Microsoft Windows netbios-ssn
445/tcp open microsoft-ds Microsoft Windows 7 - 10 microsoft-ds (workgrou
p: WORKGROUP)
                            Microsoft HTTPAPI httpd 2.0 (SSDP/UPnP)
5357/tcp open http
MAC Address: 08:00:27:F4:5F:74 (Oracle VirtualBox virtual NIC)
Service Info: Host: CRIS-PC; OS: Windows; CPE: cpe:/o:microsoft:windows
Service detection performed. Please report any incorrect results at https:/
/nmap.org/submit/ .
Nmap done: 1 IP address (1 host up) scanned in 37.67 seconds
```

Attraverso il comando "nmap -sV <<ip host>> ottengo le seguenti informazioni: -Si tratta di windows, il range della versione varia dal 7 al 10 (porta 445 mi da queste informazioni)

-Nome host: CRIS-PC



Utilizzando il comando "nmap -Pn -sT -T4 -0 <<ip host>>" riesco a capire attraverso le probabiltà che si tratta di windows 7, anche aiutandomi con la ricorrenza delle ipotesi della versione 7, e dei server riconducibili al 2008.

Metasploitable

Informazioni: OS fingerprint, Syn scan, tcp connect, version detection.

OS fingerprint

```
MAC Address: 08:00:27:EF:A8:F1 (Oracle VirtualBox virtual NIC)

e 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
```

Attraverso il comando "nmap -O <<ip host>>" riesco ad avere questi risultati: Il sistema operativo, il suo range di versione., la versione del kernel.

Syn scan

```
root@kali: /home/kali
File Actions Edit View Help
Nmap done: 1 IP address (1 host up) scanned in 13.62 seconds
    root⊕kali)-[/home/kali]
mmap -sS -p 1-1024 192.168.50.6
Starting Nmap 7.94 ( https://nmap.org ) at 2024-01-10 11:36 EST
Nmap scan report for 192.168.50.6
Host is up (0.00013s latency).
Not shown: 1012 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
MAC Address: 08:00:27:EF:A8:F1 (Oracle VirtualBox virtual NIC)
Nmap done: 1 IP address (1 host up) scanned in 13.67 seconds
```

Qui effettuiamo uno scan sulle prime 1024 porte utilizzando solamente la prima stretta di mano (syn).

TCP scan

```
root@kali: /home/kali
File Actions Edit View Help
Nmap done: 1 IP address (1 host up) scanned in 13.32 seconds
             i)-[/home/kali]
nmap -sT -p 1-1024 192.168.50.6
Starting Nmap 7.94 ( https://nmap.org ) at 2024-01-10 13:23 EST
Nmap scan report for 192.168.50.6
Host is up (0.0019s latency).
Not shown: 1012 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
MAC Address: 08:00:27:EF:A8:F1 (Oracle VirtualBox virtual NIC)
Nmap done: 1 IP address (1 host up) scanned in 13.39 seconds
```

Qui invece effettuiamo una scansione che stabilisce una connessione TCP con ciascuna delle porte in range.

A differenza della scansione precedente esegue una scansione più completa, utilizza un metodo più invasivo e di conseguenza maggiormente rintracciabile.

Version Detection

```
\bigcirc
                                               root@kali: /home/kali
 File Actions Edit View Help
Nmap done: 1 IP address (1 host up) scanned in 26.90 seconds
            kali)-[/home/kali]
nmap -sV -p 1-1024 192.168.50.6
Starting Nmap 7.94 ( https://nmap.org ) at 2024-01-10 14:01 EST
Nmap scan report for 192.168.50.6
Host is up (0.00049s latency).
Not shown: 1012 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
                               OpenBSD or Solaris rlogind
                               Netkit rshd
514/tcp open shell
MAC Address: 08:00:27:EF:A8:F1 (Oracle VirtualBox virtual NIC)
Service Info: Host: metasploitable.localdomain; 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 24.80 seconds
```

Con questo comando otteniamo una scansione più dettagliata delle porte, riuscendo a visualizzare anche la versione di esse.