In questo report faccio un report riguardo i diversi tipi di scansione di Nmap

# 1-Metasploitable

## i- OS fingerprint

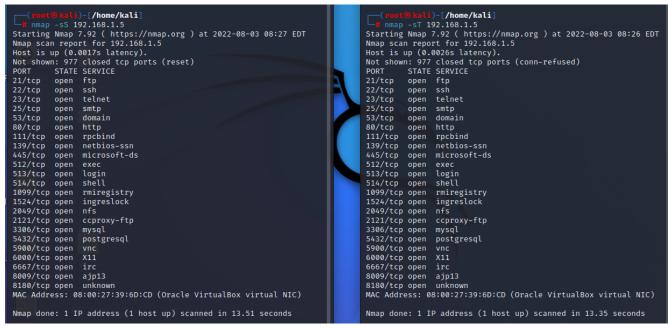
Usando **nmap -O** ip: mi ha mostrato le porte aperte con i nomi di servizi sul target, ci mostra anche il sistema operativo del target nel nostro caso e **Linux\_kernel: 2.6** 

```
File Actions Edit View Help

(rock@lel:)-[/home/kali]
Immap -0 192.168.1.5
Starting Nmap 7.92 (https://nmap.org ) at 2022-08-03 08:00 EDT
Nmap scan report for 192.168.1.5
Host is up (0.0011s 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
11/tcp open rpcbind
139/tcp open metbios-ssn
445/tcp open metbios-ssn
512/tcp open shell
1099/tcp open shell
1099/tcp open shell
1099/tcp open imiregistry
1524/tcp open shell
1099/tcp open mysql
524/tcp open shell
1099/tcp open mysql
5432/tcp open mysql
66067/tcp open irc
8009/tcp open irc
8009/tcp open ajp13
8180/tcp open unknown
MAC Address: 08:00:27:39:60:CD (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
```

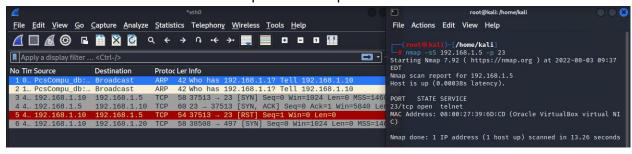
#### ii- SYN vs TCP scan:

eseguendo nmap -sS per SYN scan e nmap -sT per TCP scan me ha risolto

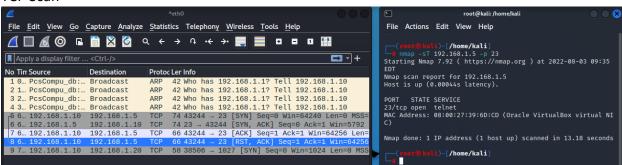


Per poter vedere la differenza ho catturato i pacchetti da wireshark vedendo che SYN scan interrompe la connessione e non termina il **3WH**, mentre TCP scan lo fa Come mostrato in figura

a- SYN scan: la connessione e terminata prima di completare il **3WH** 



b- TCP Scan



### iii- Version: usando nmap -sV ip, mi mostra tutte le porte aperte con versioni dei servizi

```
| home/kali
    nmap -sV 192.168.1.5
Starting Nmap 7.92 ( https://nmap.org ) at 2022-08-03 10:14 EDT
Nmap scan report for 192.168.1.5
Host is up (0.00049s latency).
Not shown: 977 closed tcp ports (reset)
          STATE SERVICE
                                VERSION
                               vsftpd 2.3.4
21/tcp
          open ftp
          open ssh
22/tcp
                               OpenSSH 4.7p1 Debian 8ubuntu1 (protocol 2.0)
         open telnet
                              Linux telnetd
23/tcp
25/tcp open smtp
                              Postfix smtpd
53/tcp open domain
                              ISC BIND 9.4.2
80/tcp open domain 15C 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
                           netkit-rsh rexecd
                               Netkit rshd
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)
6667/tcp open irc UnrealIRCd
8009/tcp open ajp13 Apache Jserv (Proto
                               Apache Jserv (Protocol v1.3)
8180/tcp open http
                               Apache Tomcat/Coyote JSP engine 1.1
MAC Address: 08:00:27:39:6D:CD (Oracle VirtualBox virtual NIC)
Service Info: Hosts: metasploitable.localdomain, irc.Metasploitable.LAN; OSs: Unix, Linu
x; CPE: cpe:/o:linux:linux_kernel
Service detection performed. Please report any incorrect results at https://nmap.org/subm
```

#### 2- Win7

```
File Actions Edit View Help

(root@kali)-[/home/kali]

# nmap -0 192.168.1.20

Starting Nmap 7.92 ( https://nmap.org ) at 2022-08-03 08:01 EDT

Nmap scan report for 192.168.1.20

Host is up (0.0011s latency).

All 1000 scanned ports on 192.168.1.20 are in ignored states.

Not shown: 1000 filtered tcp ports (no-response)

MAC Address: 08:00:27:09:17:09 (Oracle VirtualBox virtual NIC)

Too many fingerprints match this host to give specific OS details

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 37.45 seconds
```