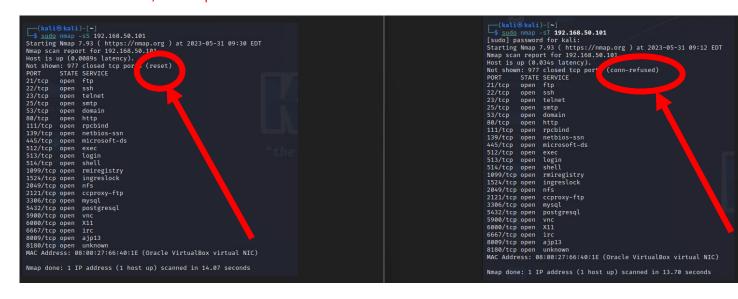
1) OS FINGERPRINT METASPLOITABLE CON sudo nmap -O 192.168.50.101

2) SYN Scan Metasploitable con sudo nmap -sS 192.168.50.101

3) TCP Connect con sudo nmap -sT 192.168.50.101

```
-(kali⊛kali)-[~]
\( \text{Kat1} \in \text{Kat1} \) -[\pi] \( \text{$\frac{1}{2}$ \] \( \text{$\frac{1}$ \] \( \text{$\frac{1}{2}$ \] \( \text{$\frac{1}{2}$ \] \( \te
Host is up (0.010s latency).
Not shown: 977 closed tcp ports (conn-refused)
PORT STATE SERVICE
                                      open ftp
 22/tcp
                                    open ssh
 23/tcp
                                                                telnet
                                     open
 25/tcp
                                                                smtp
                                     open
 53/tcp
                                                                domain
                                     open
 80/tcp
                                    open
 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
1524/tcp open
                                                                rmiregistry
                                                                ingreslock
2049/tcp open nfs
 2121/tcp open ccproxy-ftp
3306/tcp open mysql
 5432/tcp open postgresql
 5900/tcp open
 6000/tcp open
 6667/tcp open
 8009/tcp open ajp13
 8180/tcp open unknown
 MAC Address: 08:00:27:66:40:1E (Oracle VirtualBox virtual NIC)
 Nmap done: 1 IP address (1 host up) scanned in 13.65 seconds
```

4) Differenza SYN Scan e TCP Connect. Il SYN SCAN non completa il 3-WH, ergo non completa la scansione TCP, motivo per cui vi è il reset.



5) Version detection con sudo nmap -sV 192.168.50.101

```
-(kali⊕kali)-[~]
$ sudo nmap -sV 192.168.50.101
Starting Nmap 7.93 ( https://nmap.org ) at 2023-05-31 08:54 EDT
Nmap scan report for 192.168.50.101
Host is up (0.024s latency).
Not shown: 977 closed tcp ports (reset)
        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?
25/tcp
         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 exec?
513/tcp open login?
514/tcp open shell?
               login?
               shell?
1099/tcp open
                             GNU Classpath grmiregistry
               java-rmi
1524/tcp open bindshell
                             Metasploitable root shell
2049/tcp open nfs
                             2-4 (RPC #100003)
2121/tcp open ccproxy-ftp?
3306/tcp open
               mysql?
5432/tcp open
                             PostgreSQL DB 8.3.0 - 8.3.7
               postgresql
5900/tcp open vnc
                             VNC (protocol 3.3)
6000/tcp open X11
                             (access denied)
                             UnrealIRCd
6667/tcp open irc
8009/tcp open ajp13
8180/tcp open http
                             Apache Jserv (Protocol v1.3)
                             Apache Tomcat/Coyote JSP engine 1.1
MAC Address: 08:00:27:66:40:1E (Oracle VirtualBox virtual NIC)
Service Info: Host: 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 196.21 seconds
```

6) Creazione report con commando sudo nmap -sT 192.168.50.101 -oN report.txt. In seguito ho usato il comando ls per aver conferma della creazione del file in .txt. Infine con comando cat report.txt ho aperto il report.

```
-sT 192.168.50.101 -oN report.txt
 Starting Nmap 7.93 ( https://nmap.org ) at 2023-05-31 09:16 EDT
 Nmap scan report for 192.168.50.101
 Host is up (0.010s 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
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: 08:00:27:66:40:1E (Oracle VirtualBox virtual NIC)
 Nmap done: 1 IP address (1 host up) scanned in 13.65 seconds
192.168.50.101 brute.py Documents gameshell-save.sh https.pcapng Pictures quiz10.c report.txt Videos brute2.py Desktop Downloads gameshell.sh Music Public quiz.c Templates
  ---(kali⊕ kali)-[~]
--$ cat report.txt
# Nmap 7.93 scan initiated Wed May 31 09:16:16 2023 as: nmap -sT -oN report.txt 192.168.50.101
Nmap scan report for 192.168.50.101
 Host is up (0.010s latency).
 Not shown: 977 closed tcp ports (conn-refused)
Not shown: 977 closed tcp por PORT STATE SERVICE 21/tcp open ftp 22/tcp open ssh 23/tcp open smtp 53/tcp open domain 80/tcp open http 111/tcp open rpcbind 139/tcp open microsoft-ds 512/tcp open exec 513/tcp open login 514/tcp open shell 1099/tcp open rmiregistry
 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
 8009/tcp open ajp13
8180/tcp open unknown
 MAC Address: 08:00:27:66:40:1E (Oracle VirtualBox virtual NIC)
```

7) OS FINGERPRINT Windows 7 con sudo nmap -O 192.168.50.102. Avendo già disattivato il firewall su Windows 7 è stato possibile la scansione.

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

$ sudo nmap -0 192.168.50.102

Starting Nmap 7.93 ( https://mnap.org ) at 2023-05-31 07:38 EDT

Nmap scan report for 192.168.50.102

Host is up (0.00335 latency).

Not shown: 988 closed tcp ports (reset)

PORT STATE SERVICE

135/tcp open methios-ssn

445/tcp open microsoft-ds

554/tcp open microsoft-ds

554/tcp open ricslap

10243/tcp open unknown

49152/tcp open unknown

49152/tcp open unknown

49153/tcp open unknown

49154/tcp open unknown

49155/tcp open unknown

49155/tcp open unknown

49155/tcp open unknown

49157/tcp open unknown
```