



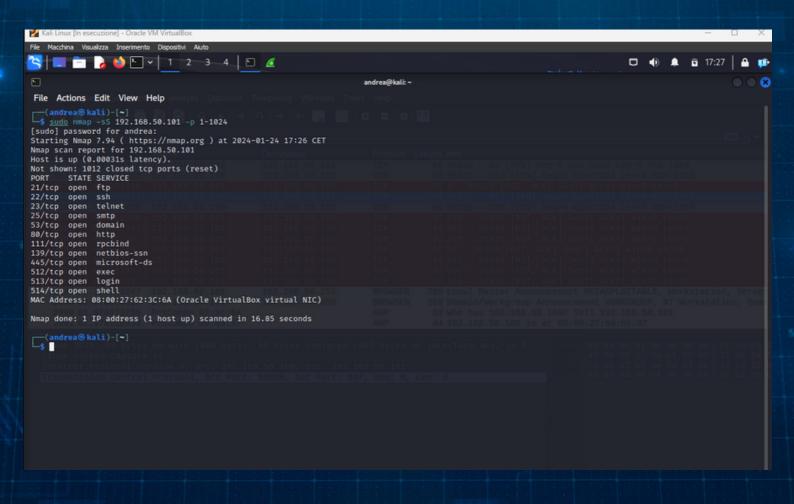
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L'esercizio consiste a prendere dimistichezza con i tool nmap effettuando 3 tipi di scansioni (Syn,TCP,-A) da una macchina (kali linux) a un target (metasploitable).Infine intercetteremo il traffico con wireshark

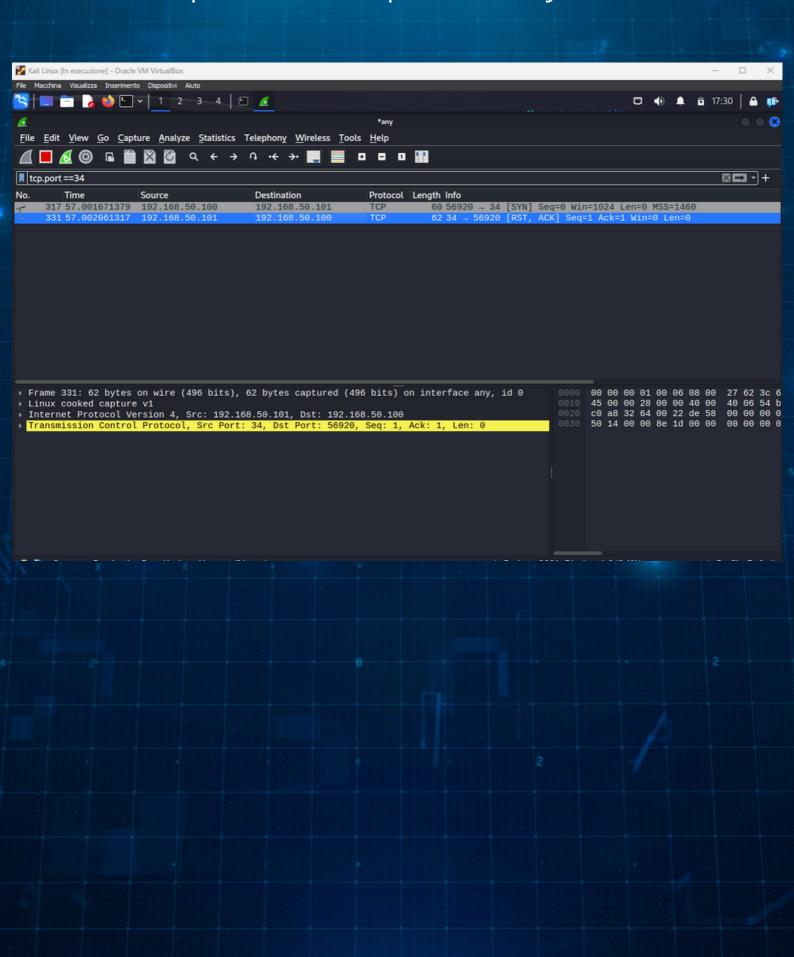
## **Scansione Syn**

#### Iniziamo lanciamo il comando

nmap -sS 192.168.50.101 -p 1-1024



# Usando Wireshark possiamo notare che Mesploitable risponde con un pacchetto Syn/Ack



### **Scansione TCP**

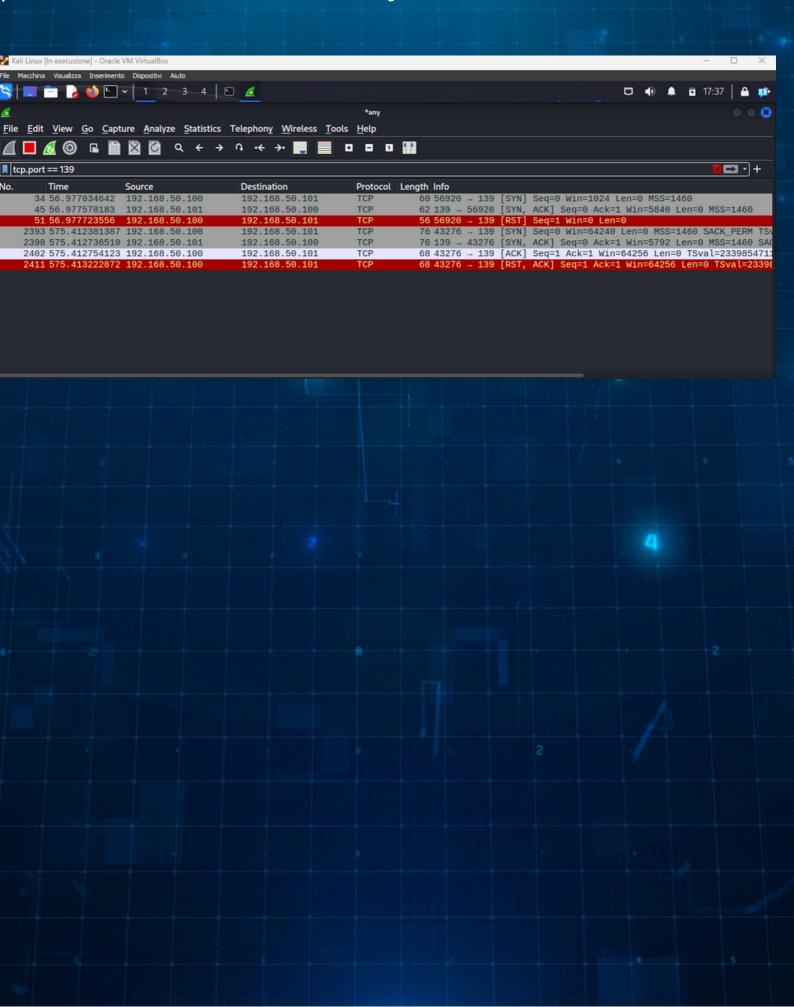
La scansione -sT stabilisce un canale TCP.E una scansione più invasiva.

Quindi lanciamo il comando:

nmap -sT 192.168.50.101 -p 1-1024

```
└$ <u>sudo</u> nmap -sT 192.168.50.101 -p 1-1024
Starting Nmap 7.94 ( https://nmap.org ) at 2023-12-31 04:12 EST
Nmap scan report for 192.168.50.101
Host is up (0.00042s 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: 08:00:27:31:C7:7B (Oracle VirtualBox virtual NIC)
Nmap done: 1 IP address (1 host up) scanned in 13.34 seconds
```

Su wireshark possiamo notare che applicando il filtro tcp port 139 avviene la three-way-handshake



### **Scansione** -A

Questa è la scansione più rumorosa delle altre ma in compenso ci consente di ottenere molte altre più informazioni sul target

```
(andrea⊕ kali)-[~]

$\sudo \text{nmap} -A 192.168.50.101 -p 1-1024.}
[sudo] password for andrea:
Starting Nmap 7.94 ( https://nmap.org ) at 2024-01-24 17:41 CET
Nmap scan report for 192.168.50.101
Host is up (0.00046s latency).
Not shown: 1012 closed tcp ports (reset)
PORT STATE SERVICE
                            VERSION
21/tcp open ftp
                            vsftpd 2.3.4
_ftp-anon: Anonymous FTP login allowed (FTP code 230)
  ftp-syst:
    STAT:
  FTP server status:
       Connected to 192.168.50.100
        Logged in as ftp
        TYPE: ASCII
       No session bandwidth limit
       Session timeout in seconds is 300
       Control connection is plain text
Data connections will be plain text
       vsFTPd 2.3.4 - secure, fast, stable
| End of status
22/tcp open ssh
                             OpenSSH 4.7p1 Debian 8ubuntu1 (protocol 2.0)
 ssh-hostkey:
    1024 60:0f:cf:e1:c0:5f:6a:74:d6:90:24:fa:c4:d5:6c:cd (DSA)
    2048 56:56:24:0f:21:1d:de:a7:2b:ae:61:b1:24:3d:e8:f3 (RSA)
23/tcp open telnet
                          Linux telnetd
25/tcp open smtp
                            Postfix smtpd
_smtp-commands: metasploitable.localdomain, PIPELINING, SIZE 10240000, VRFY, ETRN, STARTTLS, ENHANCEDSTATUSCODES, 8BITMIME, DSN
53/tcp open domain
                           ISC BIND 9.4.2
 dns-nsid:
   bind.version: 9.4.2
80/tcp open http Apache http:
|_http-title: Metasploitable2 - Linux
                            Apache httpd 2.2.8 ((Ubuntu) DAV/2)
_http-server-header: Apache/2.2.8 (Ubuntu) DAV/2
                           2 (RPC #100000)
111/tcp open rpcbind
 rpcinfo:
    program version port/proto service
                         111/tcp
    100000 2
                                      rpcbind
    100000 2
100000 2
100003 2,3,4
100003 2,3,4
100005 1,2,3
100005 1,2,3
100021 1,3,4
100021 1,3,4
                           111/udp
                                       rpcbind
                          2049/tcp
                                      nfs
                          2049/udp
                                       nfs
                         38899/udp
                                       mountd
                         50240/tcp
                                       mountd
                         38628/tcp
                                      nlockmgr
                        41512/udp
                                       nlockmgr
    100024 1
100024 1
                         35880/tcp
                         60660/udp
139/tcp open netbios-ssn Samba smbd 3.X - 4.X (workgroup: WORKGROUP)
445/tcp open ♦H♦r♦U
                            Samba smbd 3.0.20-Debian (workgroup: WORKGROUP)
512/tcp open exec
                            netkit-rsh rexecd
513/tcp open login?
514/tcp open shell
                            Netkit rshd
MAC Address: 08:00:27:62:3C:6A (Oracle VirtualBox virtual NIC)
```