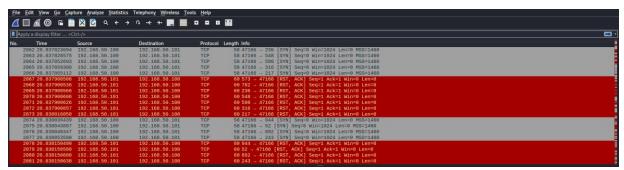
# D1 Tools di Kali Linux

#### Esercizio 1

```
-(kali⊛kali)-[~]
 -$ <u>sudo</u> nmap -sS 192.168.50.101 -p 1-1024
[sudo] password for kali:
Starting Nmap 7.93 ( https://nmap.org ) at 2023-09-20 00:00 EDT
Nmap scan report for 192.168.50.101
Host is up (0.00010s latency).
Not shown: 1012 closed tcp ports (reset)
       STATE SERVICE
PORT
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: 08:00:27:65:98:E6 (Oracle VirtualBox virtual NIC)
Nmap done: 1 IP address (1 host up) scanned in 13.24 seconds
```

Con questo comando riusciamo a vedere tutti i servizi attivi sulla macchina target (metasploit).

#### Esercizio 2



Con lo stesso comando usato in precedenza possiamo vedere tramite la cattura di wireshark che le richieste che inviamo non vengono concluse ma viene inviato solo il SYN dove la porta è aperta ed i servizi sono attivi.

dove invece le richieste trovano la porta chiusa o senza servizi attivi la macchina target risponde inviando un RST, ACK.

### Porta aperta con servizio attivo:

```
Frame 2065: 58 bytes on wire (464 bits), 58 bytes captured (464 bits) on interface eth0, id 0
Fithernet II, Src: PcsCompu_66:d4:e0 (08:00:27:66:d4:e0), Dst: PcsCompu_65:98:e6 (08:00:27:65:98:e6)
Internet Protocol Version 4, Src: 192.168.50.100, Dst: 192.168.50.101
Transmission Control Protocol, Src Port: 47166, Dst Port: 316, Seq: 0, Len: 0
Source Port: 47166
Destination Port: 316
[Stream index: 1018]
[Conversation completeness: Incomplete (37)]
[TCP Segment Len: 0]
Sequence Number: 0 (relative sequence number)
Sequence Number: 1 (relative sequence number)]
Acknowledgment Number: 0
Acknowledgment Number: 0
Acknowledgment number (raw): 0
0110 ... = Header Length: 24 bytes (6)
Flags: 0x002 (SYN)
Window: 1024
[Calculated window size: 1024]
Checksum: 0x2898 [unverified]
[Checksum: 0x2898 [unverified]
Urgent Pointer: 0
Foundation Port: 316, Seq: 0, Len: 0
Flags: 0x002 (SYN)
Urgent Pointer: 0
Flags: 0x002 (SYN)
F
```

## Porta chiusa senza servizio:

```
Frame 2071: 60 bytes on wire (480 bits), 60 bytes captured (480 bits) on interface eth0, id 0

Ethernet II, Src: PcsCompu_65:98:e6 (08:00:27:65:98:e6), Dst: PcsCompu_66:d4:e0 (08:00:27:66:d4:e0)

Internet Protocol Version 4, Src: 192.168.50.101, Dst: 192.168.50.100

Transmission Control Protocol, Src Port: 598, Dst Port: 47166, Seq: 1, Ack: 1, Len: 0

Source Port: 598

Destination Port: 47166

[Stream index: 1017]

[Conversation completeness: Incomplete (37)]

[TCP Segment Len: 0]

Sequence Number: 1 (relative sequence number)

Sequence Number: 1 (relative sequence number)]

Acknowledgment Number: 1 (relative ack number)

Acknowledgment number (raw): 2143439928

0101 ... = Header Length: 20 bytes (5)

Flags: 0x014 (RST, ACK)

Window: 0

[Calculated window size: 0]

[Window size scaling factor: -2 (no window scaling used)]

Checksum: 0x4327 [unverified]

Urgent Pointer: 0

[Timestamps]

[SEQ/ACK analysis]
```