

תקשורת מטלה ו

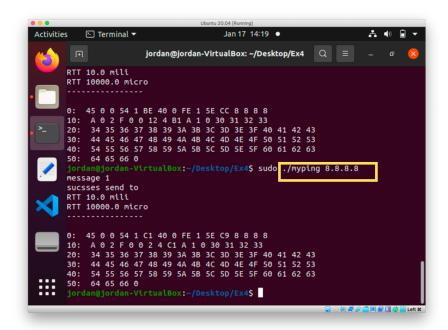
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PARTIE 1

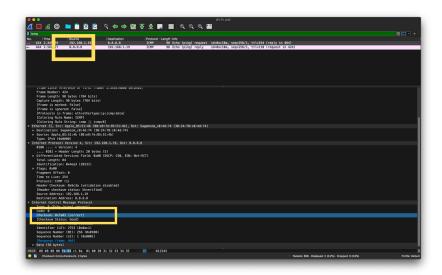
<u>חלק א' - myping</u>

Send Ping with myping.c



Send ping to 8.8.8.8

<u>Capture pacquets with</u> <u>WireShark</u>



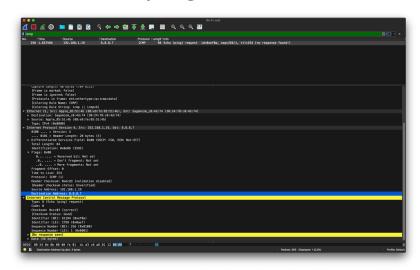
Paquets ICMP well sniffed , CheckSum Correct ,Destination is 8.8.8.8

Send Ping (Another try)

```
Activities

    Terminal ▼
                                              Jan 17 14:21 •
                           jordan@jordan-VirtualBox: ~/Desktop/Ex4
             34 35 36 37 38 39 3A 3B 3C 3D 3E 3F 40 41 42 43 44 45 46 47 48 49 4A 4B 4C 4D 4E 4F 50 51 52 53
        20:
        30:
             54 55 56 57 58 59 5A 5B 5C 5D 5E 5F 60 61 62 63
             64 65 66 0
        50:
        jordan@jordan-VirtualBox:~/Desktop/Ex4$ sudo ./myping 8.8.8.8
       message 1
       sucsses send to
       RTT 10.0 mili
       RTT 10000.0 micro
       0: 45 0 0 54 1 C1 40 0 FE 1 5E C9 8 8 8 8
        10: A 0 2 F 0 0 2 4 C1 A 1 0 30 31 32 33
       20: 34 35 36 37 38 39 3A 3B 3C 3D 3E 3F 40 41 42 43 30: 44 45 46 47 48 49 4A 4B 4C 4D 4E 4F 50 51 52 53
            54 55 56 57 58 59 5A 5B 5C 5D 5E 5F 60 61 62 63
            64 65 66 0
        50:
        jordan@jordan-VirtualBox:~/Desktop/Ex4$ sudo ./myping 8.8.8.7
       message 1
       sucsses send to
       RTT 45.0 mili
       RTT 45000.0 micro
        jordan@jordan-VirtualBox:~/Desktop/Ex4$
```

Send ping to 8.8.8.7



Well Recieved

PARTIE 2

<u>חלק ב' – Sniffing</u>

Send 7 Ping to the Same Adress



Sniff The Ping Sent with Sniffer.c

```
jordan@jordan-VirtualBox: ~/Desktop/Tikchoret/Tikchoret 4/Or Sniffer Q = -
Available Devices are :
1. enp0s3 - (null)
2. enp0s8 - (null)
3. lo - (null)
4. any - Pseudo-device that captures on all interfaces
5. bluetooth-monitor - Bluetooth Linux Monitor
6. nflog - Linux netfilter log (NFLOG) interface
7. nfqueue - Linux netfilter queue (NFQUEUE) interface
Which device would you want to sniff ? 1
Opening device enp0s3 for sniffing ... Done
Number of Packet ICMP : 0
#Source IP : 10.0.2.15
#Destination IP : 192.168.1.1
     #Code : 8
#Type : 8
Number of Packet ICMP : 1
     #Source IP : 192.168.1.1
#Destination IP : 10.0.2.15
     #Code : 0
#Type : 0
Number of Packet ICMP : 2
     #Source IP : 10.0.2.15
#Destination IP : 192.168.1.1
Number of Packet ICMP : 3
     #Source IP : 192.168.1.1
#Destination IP : 10.0.2.15
     #Code : 0
#Type : 0
Number of Packet ICMP : 4
     #Source IP : 10.0.2.15
#Destination IP : 192.168.1.1
     #Source IP
Number of Packet ICMP : 5
     #Source IP : 192.168.1.1
#Destination IP : 10.0.2.15
     #Code : 0
#Type : 0
```



Compare My Sniffer And WireShark

```
| Principles virtualists (Pasking/Tables) (Tables) (Table
```



Send 4 Ping to the Same Adresse Sniffe With sniffer.c & WireShark