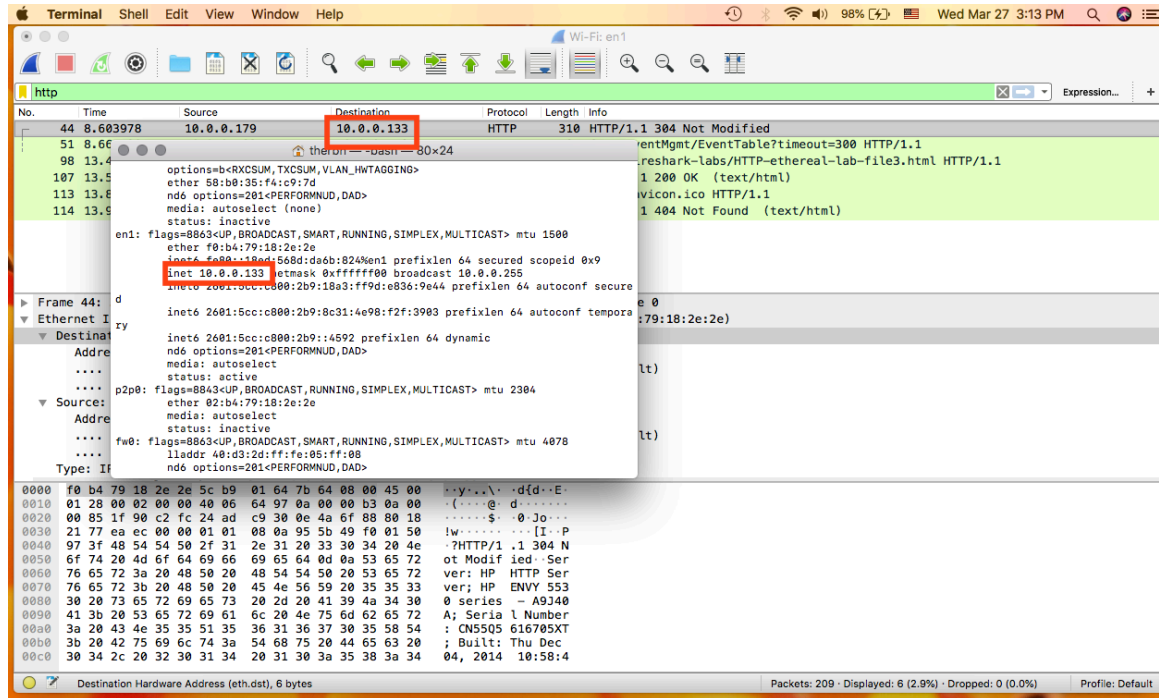


Shahd bin himd

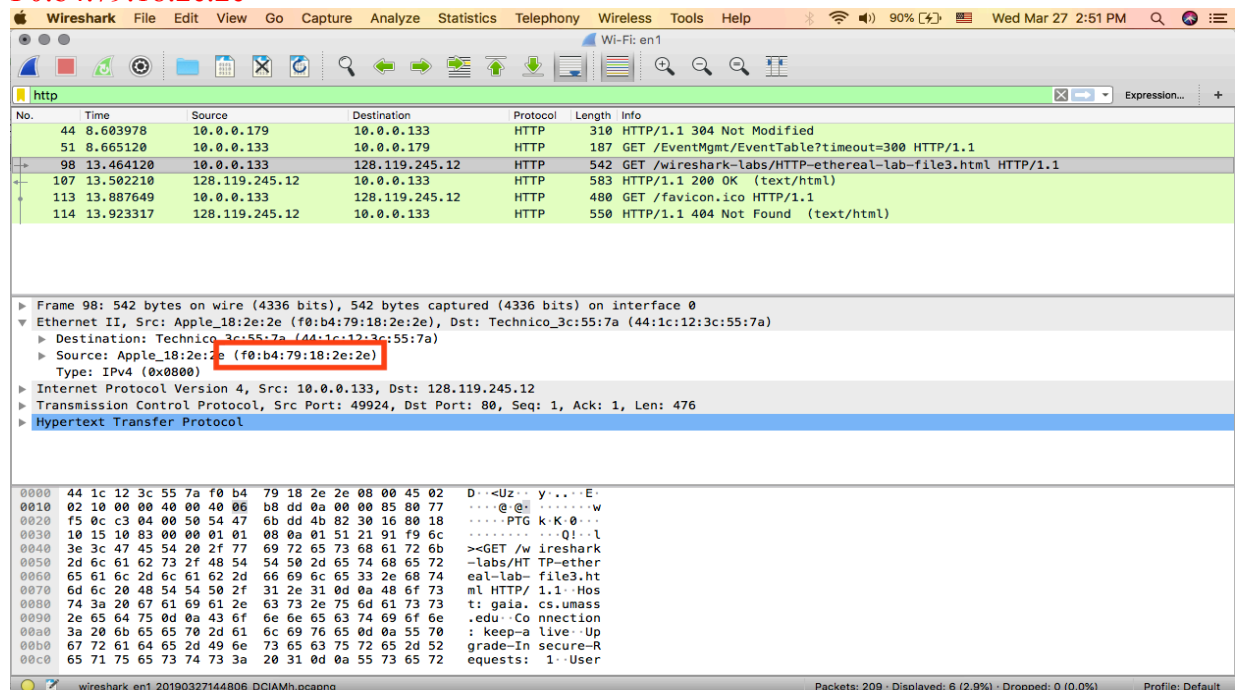
LAB 6

10.0.0.133



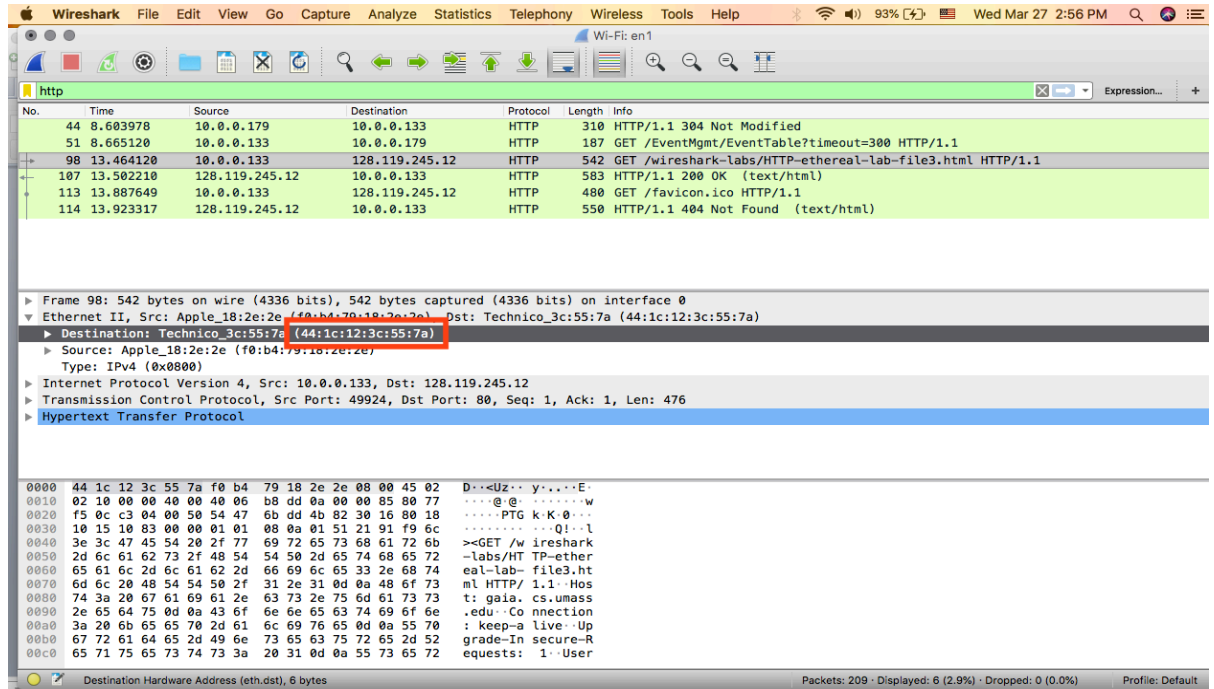
1. What is the MAC address from your computer?

F0:b4:79:18:2e:2e



2. What is the destination MAC address?

44:1c:12:3c:55:7a



3. What device has the MAC address shown in the destination?

It's the router port that I'm using to access the Internet.

4. Explain the relationship between the destination MAC address and the destination IP address.

No relation between them. The destination MAC address keep changing every time the packet go from device port to another, The destination IP address is the server that we are accessing

5. Using the terminal (cmd in Windows, Terminal in mac), run a command to display your full ARP list table. (Find out what the command is, and print a full screen shot of your result.)

ARP -a

The screenshot shows a Mac Terminal window with the command `arp -a` executed. The output lists the ARP table for the `en1` interface, showing the mapping of IP addresses to MAC addresses for various hosts on the network. A packet capture window is also visible in the background, showing details of a packet received from the `en1` interface.

```
Shahad-Binhinds-MacBook-Pro:~ therbh$ arp -a
? (10.0.0.1) at 44:1c:12:3c:55:7a on en1 ifscope [ethernet]
? (10.0.0.9) at 34:ab:37:2e:4b:c8 on en1 ifscope [ethernet]
? (10.0.0.23) at 44:18:18:5e:6f:4e on en1 ifscope [ethernet]
? (10.0.0.39) at 64:1c:a6:67:5:2d on en1 ifscope [ethernet]
? (10.0.0.118) at cc:6e:a4:f9:b3:b0 on en1 ifscope [ethernet]
? (10.0.0.133) at f0:b4:79:18:2e:2e on en1 ifscope permanent [ethernet]
? (10.0.0.147) at e0:33:8e:c5:41:8c on en1 ifscope [ethernet]
? (10.0.0.179) at 5c:b9:1:64:7b:64 on en1 ifscope [ethernet]
? (10.0.0.217) at 28:57:67:ba:e9:e8 on en1 ifscope [ethernet]
? (10.0.0.219) at 40:9c:28:ee:c6:5d on en1 ifscope [ethernet]
all-systems.mcast.net (224.0.0.1) at 1:0:5e:0:0:1 on en1 ifscope permanent [ethernet]
? (224.0.0.251) at 1:0:5e:0:0:fb on en1 ifscope permanent [ethernet]
? (225.255.255.255) at 1:0:5e:7f:ff:ff on en1 ifscope permanent [ethernet]
? (239.255.255.250) at 1:0:5e:7f:ff:fa on en1 ifscope permanent [ethernet]
Shahad-Binhinds-MacBook-Pro:~ therbh$
```

/var/folders/7n/7s6q636n28b9cyb16svls__w0000gn/T//wireshark_en1_20190327144806_DCIAmH.pcapng 209 total packets, 6 shown

No.	Time	Source	Destination	Protocol	Length	Info
98	13.464120	10.0.0.133	128.119.245.12	HTTP	542	GET /

wireshark-labs/HTTP-ethereal-lab-file3.html HTTP/1.1
Frame 98: 542 bytes on wire (4336 bits), 542 bytes captured (4336 bits) on interface 0
Ethernet II, Src: Apple_18:2e:2e (f0:b4:79:18:2e:2e), Dst: Technico_3c:55:7a (44:1c:12:3c:55:7a)
Destination: Technico_3c:55:7a (44:1c:12:3c:55:7a)
Address: Technico_3c:55:7a (44:1c:12:3c:55:7a)
.... ..0. = LG bit: Globally unique address (factory default)
.... ..0. = IG bit: Individual address (unicast)
Source: Apple_18:2e:2e (f0:b4:79:18:2e:2e)
Address: Apple_18:2e:2e (f0:b4:79:18:2e:2e)
.... ..0. = LG bit: Globally unique address (factory default)
.... ..0. = IG bit: Individual address (unicast)
Type: IPv4 (0x0800)
Internet Protocol Version 4, Src: 10.0.0.133, Dst: 128.119.245.12
Transmission Control Protocol, Src Port: 49924, Dst Port: 80, Seq: 1, Ack: 1, Len: 476
Hypertext Transfer Protocol