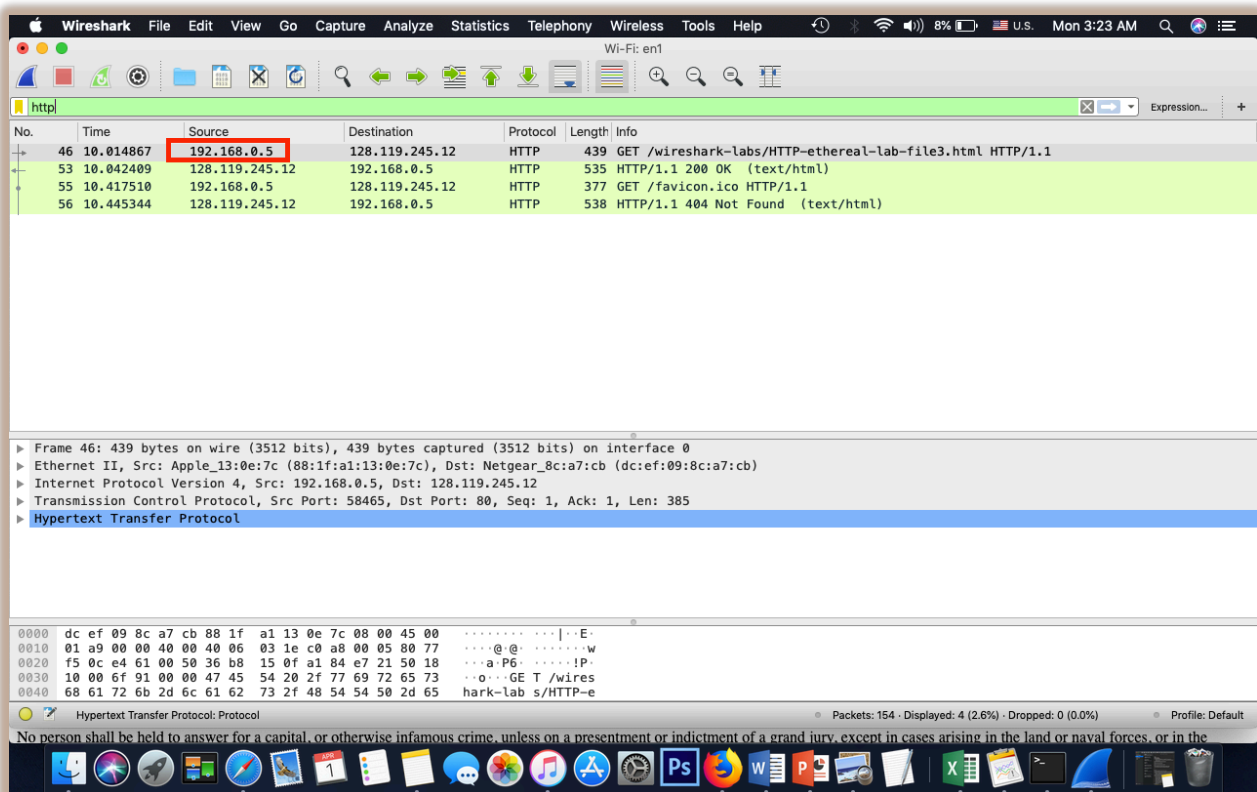


**Abdullah Alrfeedi**  
**IT-520**  
**Lab #6**

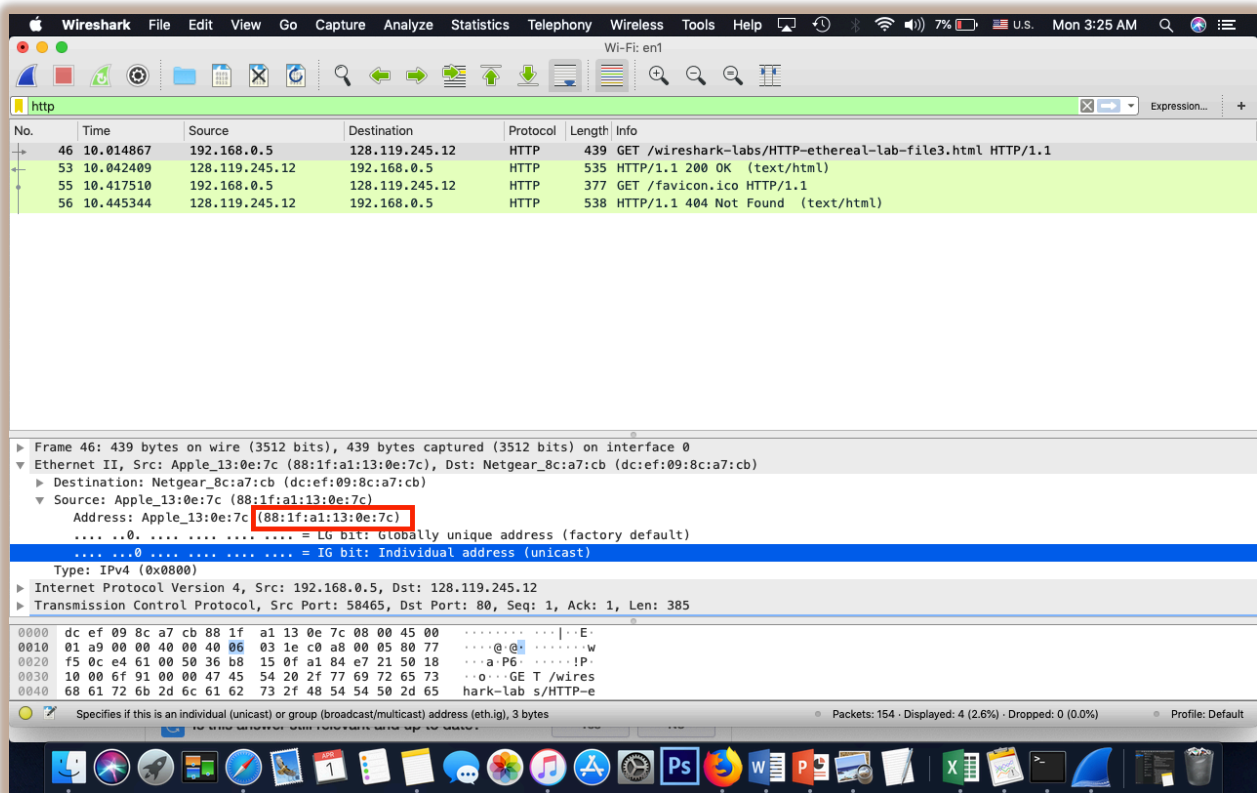
This is IP address of my computer.

(192.168.0.5).



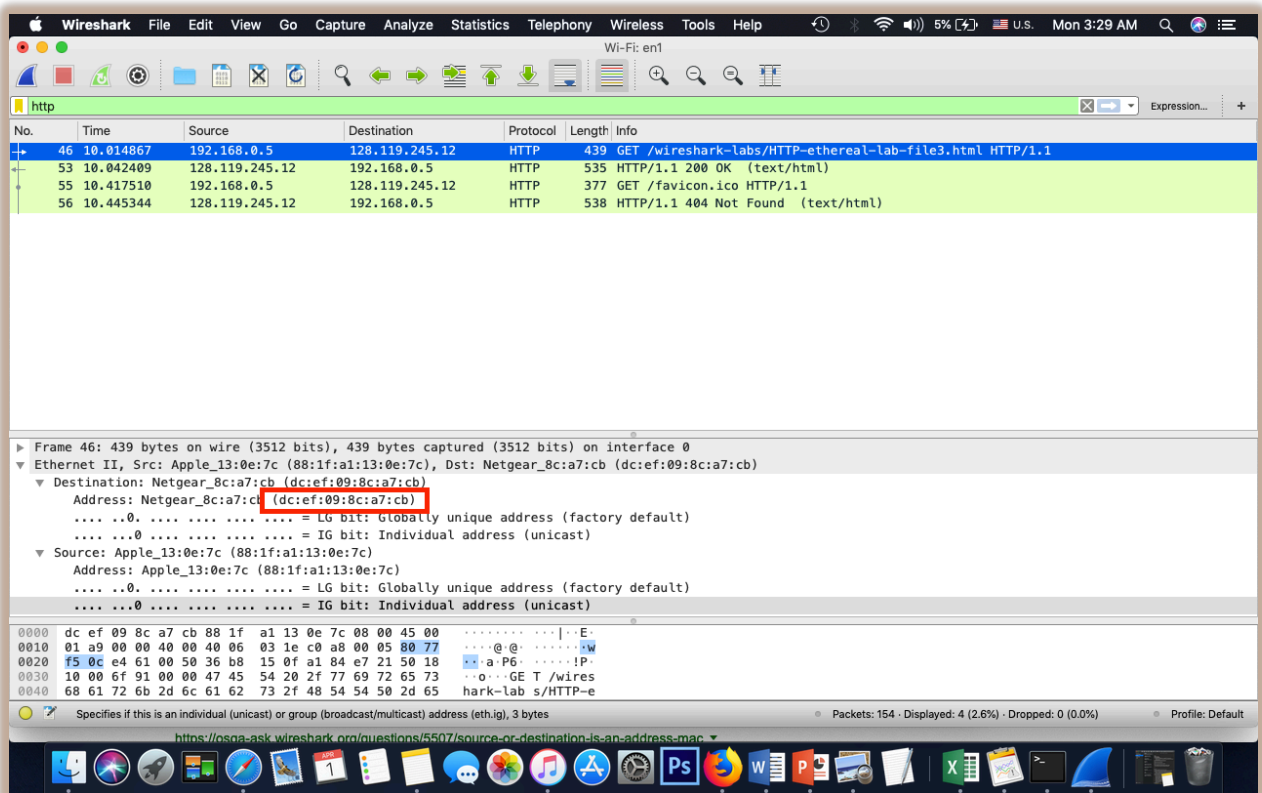
1. What is the MAC address from your computer?

The MAC address from my computer is (88:1f:a1:13:0e:7c).



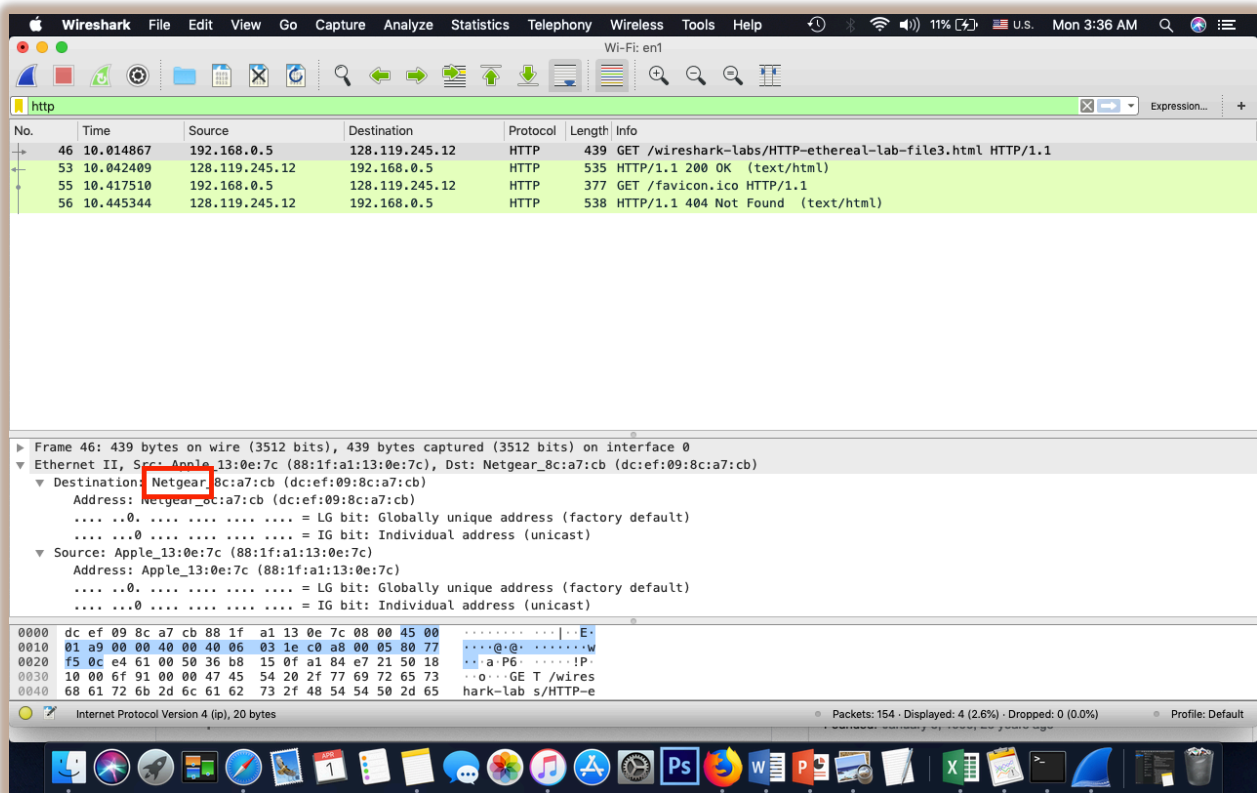
2. What is the destination MAC address?

The destination MAC address is (dc:ef:09:8c:a7:cb).



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

The device has the MAC address shown in the destination is Netgear.



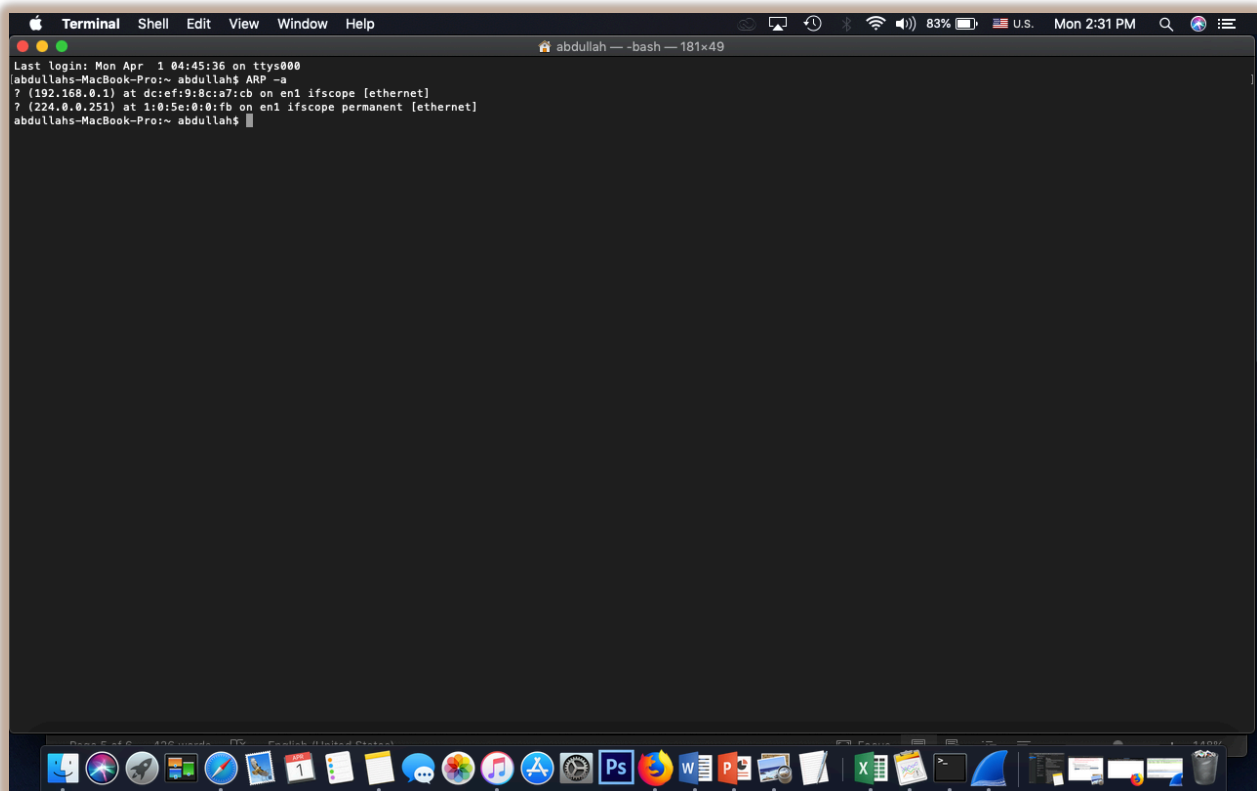
4. Explain the relationship between the destination MAC address and the destination IP address.

They are both completely different from each other.

- The MAC address is a unique address to the network card given to machine by the manufacturer.
- The IP address is used to identify a machine over the internet.

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.)

This is what I got after I run ARP -a.



```
Terminal Shell Edit View Window Help
abdullah — bash — 181x49
Last login: Mon Apr 1 04:45:36 on ttys000
abdullahs-MacBook-Pro:~ abdullah$ arp -a
? (192.168.0.1) at dc:ef:9:8c:a7:cb on en1 ifscope [ethernet]
? (224.0.0.251) at 1:0:5e:0:0:fb on en1 ifscope permanent [ethernet]
abdullahs-MacBook-Pro:~ abdullah$
```

## HTTP OK message.

No.	Time	Source	Destination	Protocol	Length	
46	10.014867	192.168.0.5	128.119.245.12	HTTP	439	GET

/wireshark-labs/HTTP-ethereal-lab-file3.html HTTP/1.1

Frame 46: 439 bytes on wire (3512 bits), 439 bytes captured (3512 bits) on interface 0  
Ethernet II, Src: Apple\_13:0e:7c (88:1f:a1:13:0e:7c), Dst: Netgear\_8c:a7:cb (dc:ef:09:8c:a7:cb)  
Internet Protocol Version 4, Src: 192.168.0.5, Dst: 128.119.245.12  
Transmission Control Protocol, Src Port: 58465, Dst Port: 80, Seq: 1, Ack: 1, Len: 385  
Hypertext Transfer Protocol

No.	Time	Source	Destination	Protocol	Length	
53	10.042409	128.119.245.12	192.168.0.5	HTTP	535	

HTTP/1.1 200 OK (text/html)

Frame 53: 535 bytes on wire (4280 bits), 535 bytes captured (4280 bits) on interface 0  
Ethernet II, Src: Netgear\_8c:a7:cb (dc:ef:09:8c:a7:cb), Dst: Apple\_13:0e:7c (88:1f:a1:13:0e:7c)  
Internet Protocol Version 4, Src: 128.119.245.12, Dst: 192.168.0.5  
Transmission Control Protocol, Src Port: 80, Dst Port: 58465, Seq: 4381, Ack: 386, Len: 481  
[4 Reassembled TCP Segments (4861 bytes): #48(1460), #49(1460), #51(1460), #53(481)]  
Hypertext Transfer Protocol  
Line-based text data: text/html (98 lines)

No.	Time	Source	Destination	Protocol	Length	
55	10.417510	192.168.0.5	128.119.245.12	HTTP	377	GET

/favicon.ico HTTP/1.1

Frame 55: 377 bytes on wire (3016 bits), 377 bytes captured (3016 bits) on interface 0  
Ethernet II, Src: Apple\_13:0e:7c (88:1f:a1:13:0e:7c), Dst: Netgear\_8c:a7:cb (dc:ef:09:8c:a7:cb)  
Internet Protocol Version 4, Src: 192.168.0.5, Dst: 128.119.245.12  
Transmission Control Protocol, Src Port: 58465, Dst Port: 80, Seq: 386, Ack: 4862, Len: 323  
Hypertext Transfer Protocol

No.	Time	Source	Destination	Protocol	Length	
56	10.445344	128.119.245.12	192.168.0.5	HTTP	538	

HTTP/1.1 404 Not Found (text/html)

Frame 56: 538 bytes on wire (4304 bits), 538 bytes captured (4304 bits) on interface 0  
Ethernet II, Src: Netgear\_8c:a7:cb (dc:ef:09:8c:a7:cb), Dst: Apple\_13:0e:7c (88:1f:a1:13:0e:7c)  
Internet Protocol Version 4, Src: 128.119.245.12, Dst: 192.168.0.5  
Transmission Control Protocol, Src Port: 80, Dst Port: 58465, Seq: 4862, Ack: 709, Len: 484  
Hypertext Transfer Protocol  
Line-based text data: text/html (7 lines)