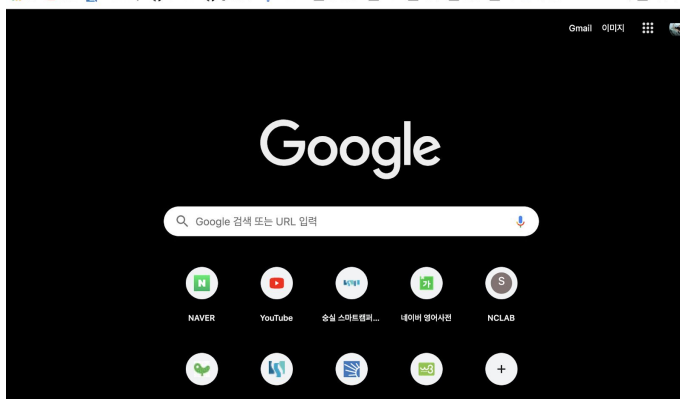
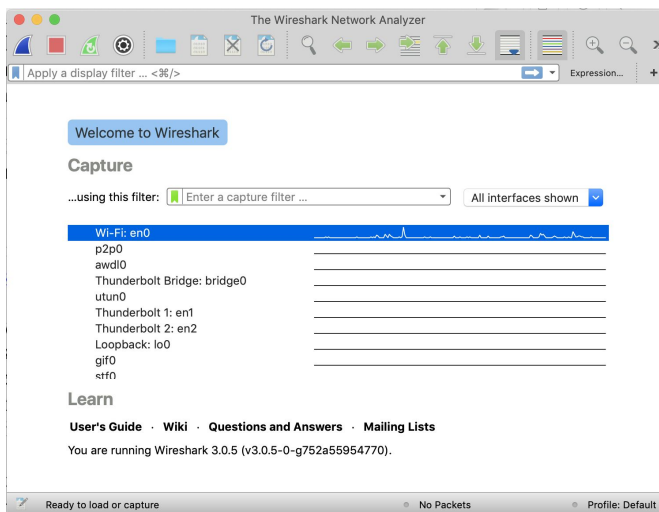


# Taking Wireshark for a Test Run

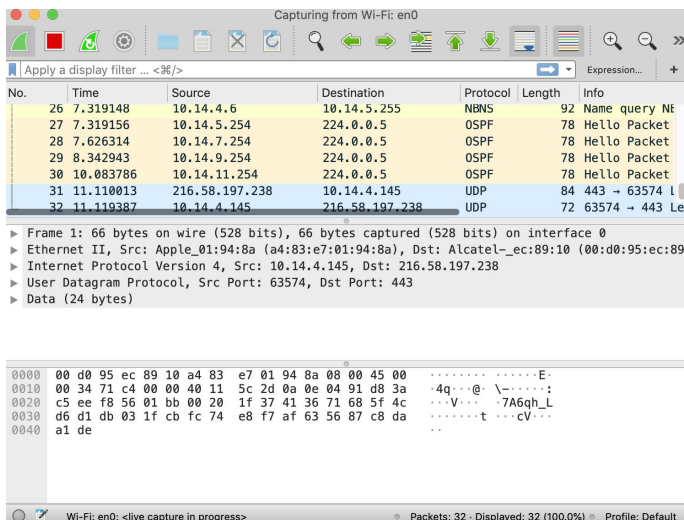
## 1. 브라우저 실행.



## 2. 와이어샤크 실행.



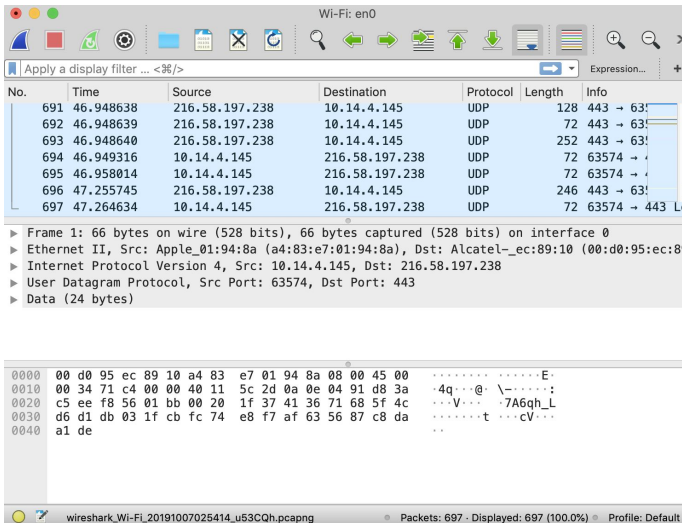
## 3. 캡처 시작.



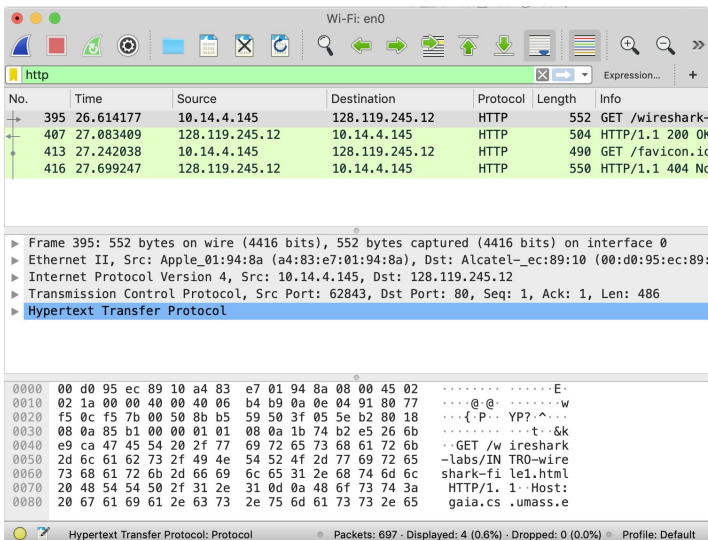
#### 4. 브라우저 진입



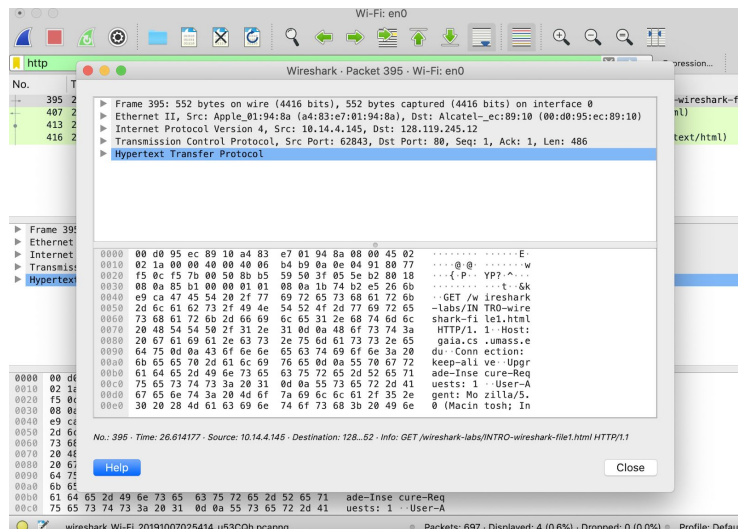
#### 5. 캡처 중단.



#### 6. http 필터링.



#### 7. GET 요청 패킷 분석



## What to hand in

1. List 3 different protocols that appear in the protocol column in the unfiltered packet-listing window in step 7 above.

-> UDP, NBNS, SSDP

2. How long did it take from when the HTTP GET message was sent until the HTTP OK reply was received? (By default, the value of the Time column in the packet-listing window is the amount of time, in seconds, since Wireshark tracing began. To display the Time field in time-of-day format, select the Wireshark View pull down menu, then select Time *Display Format*, then select *Time-of-day*.)

-> 0.469232 초.

3. What is the Internet address of the gaia.cs.umass.edu (also known as www-net.cs.umass.edu)? What is the Internet address of your computer?

-> me : 10.14.4.145 / gaia.cs.umass.edu : 128.119.245.12

4. Print the two HTTP messages (GET and OK) referred to in question 2 above. To do so, select *Print* from the Wireshark File command menu, and select the “Selected Packet Only” and “Print as displayed” radial buttons, and then click OK.

- GET

/var/folders/1p/t0g8429s5cj2\_dpn6gxg87740000gn/T//wireshark\_Wi-Fi\_20191007025414\_u53CQh.pcapng 697 total packets, 4 shown

No.	Time	Source	Destination	Protocol	Length	Info
395	26.614177	10.14.4.145	128.119.245.12	HTTP	552	GET / wireshark-labs/INTRO-wireshark-file1.html HTTP/1.1

Frame 395: 552 bytes on wire (4416 bits), 552 bytes captured (4416 bits) on interface 0  
Ethernet II, Src: Apple\_01:94:8a (a4:83:e7:01:94:8a), Dst: Alcatel\_ec:89:10 (00:d0:95:ec:89:10)  
Destination: Alcatel\_ec:89:10 (00:d0:95:ec:89:10)  
Source: Apple\_01:94:8a (a4:83:e7:01:94:8a)  
Type: IPv4 (0x0800)  
Internet Protocol Version 4, Src: 10.14.4.145, Dst: 128.119.245.12  
0100 .... = Version: 4  
.... 0101 = Header Length: 20 bytes (5)  
Differentiated Services Field: 0x02 (DSCP: CS0, ECN: ECT(0))  
Total Length: 538  
Identification: 0x0000 (0)  
Flags: 0x4000, Don't fragment  
Time to live: 64  
Protocol: TCP (6)  
Header checksum: 0xb4b9 [validation disabled]  
[Header checksum status: Unverified]  
Source: 10.14.4.145  
Destination: 128.119.245.12  
Transmission Control Protocol, Src Port: 62843, Dst Port: 80, Seq: 1, Ack: 1, Len: 486  
Hypertext Transfer Protocol

- OK

No.	Time	Source	Destination	Protocol	Length	Info
407	27.083409	128.119.245.12	10.14.4.145	HTTP	504	HTTP/1.1 200 OK (text/html)

Frame 407: 504 bytes on wire (4032 bits), 504 bytes captured (4032 bits) on interface 0  
Ethernet II, Src: Alcatel\_ec:89:10 (00:d0:95:ec:89:10), Dst: Apple\_01:94:8a (a4:83:e7:01:94:8a)  
Destination: Apple\_01:94:8a (a4:83:e7:01:94:8a)  
Source: Alcatel\_ec:89:10 (00:d0:95:ec:89:10)  
Type: IPv4 (0x0800)  
Internet Protocol Version 4, Src: 128.119.245.12, Dst: 10.14.4.145  
0100 .... = Version: 4  
.... 0101 = Header Length: 20 bytes (5)  
Differentiated Services Field: 0x02 (DSCP: CS0, ECN: ECT(0))  
Total Length: 490  
Identification: 0xb523 (46371)  
Flags: 0x4000, Don't fragment  
Time to live: 37  
Protocol: TCP (6)  
Header checksum: 0x1ac6 [validation disabled]  
[Header checksum status: Unverified]  
Source: 128.119.245.12  
Destination: 10.14.4.145  
Transmission Control Protocol, Src Port: 80, Dst Port: 62843, Seq: 1, Ack: 487, Len: 438  
Hypertext Transfer Protocol  
Line-based text data: text/html (3 lines)