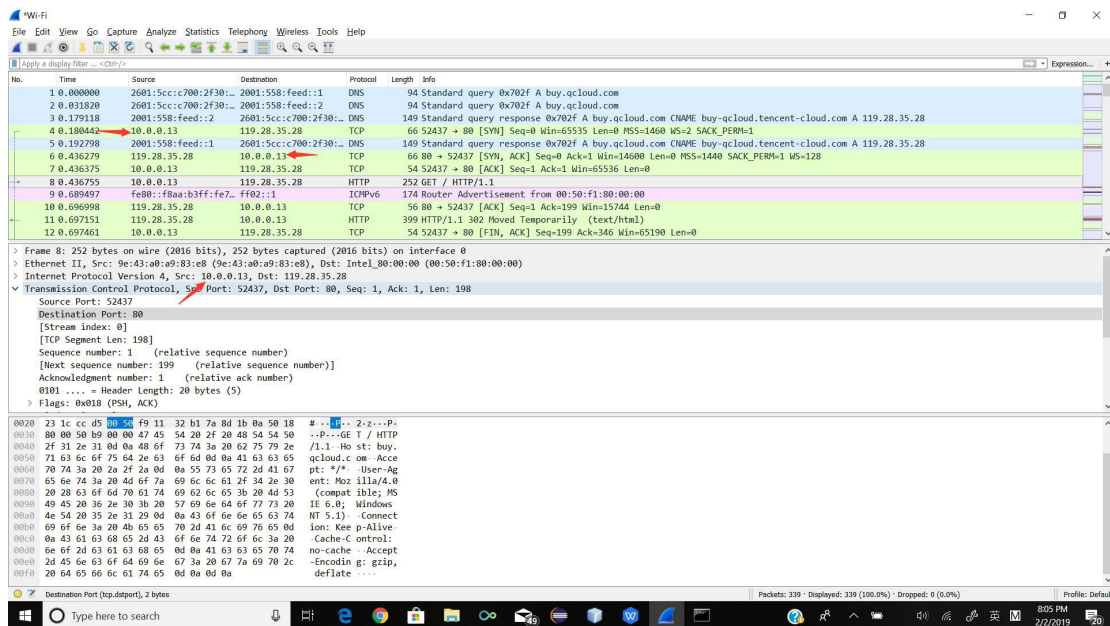
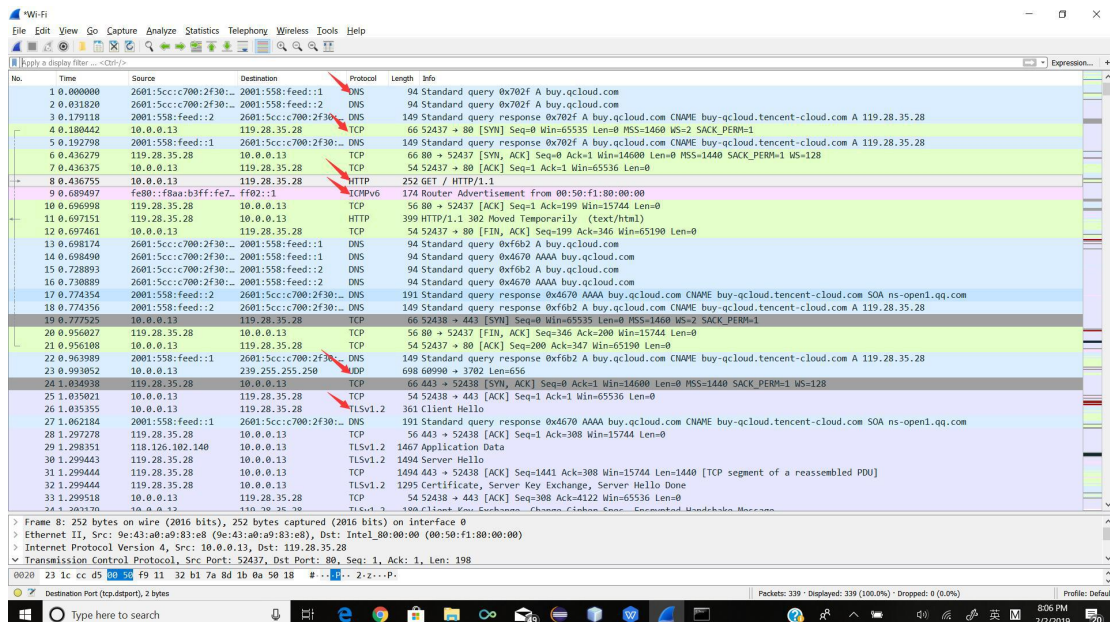


1. What is the Internet address of your computer?



As shown in the screenshot, IP address is 10.0.0.13

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



Protocols: DNS, TCP, HTTP, ICMPv6, UDP, TLSv1.2

3. 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.)

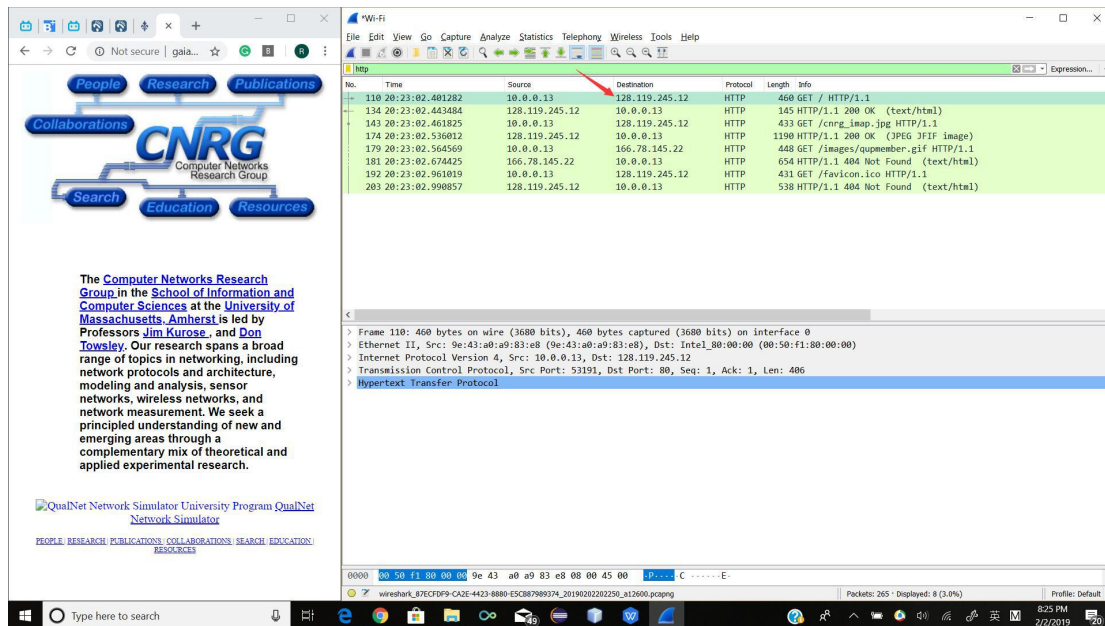
The screenshot shows the Wireshark interface with a packet capture of an HTTP GET request and its response. The packet list on the left shows the following packets:

No.	Time	Source	Destination	Protocol	Length	Info
110	20:23:02.401282	10.0.0.13	128.119.245.12	HTTP	460	GET / HTTP/1.1
134	20:23:02.443484	128.119.245.12	10.0.0.13	HTTP	145	HTTP/1.1 200 OK (text/html)
143	20:23:02.461825	10.0.0.13	128.119.245.12	HTTP	433	GET /cnrg_imap.jpg HTTP/1.1
174	20:23:02.536812	128.119.245.12	10.0.0.13	HTTP	1190	HTTP/1.1 200 OK (JPEG 3F1F image)
179	20:23:02.564560	10.0.0.13	166.78.145.22	HTTP	448	GET /images/supeneber.gif HTTP/1.1
181	20:23:02.674425	166.78.145.22	10.0.0.13	HTTP	654	HTTP/1.1 404 Not Found (text/html)
192	20:23:02.961819	10.0.0.13	128.119.245.12	HTTP	431	GET /favicon.ico HTTP/1.1
203	20:23:02.990857	128.119.245.12	10.0.0.13	HTTP	538	HTTP/1.1 404 Not Found (text/html)

The packet details on the right show the structure of the selected HTTP GET request (packet 110) and its response (packet 134). The response is an HTTP/1.1 200 OK (text/html) message.

$$\text{Response Time} = 2.443484 - 2.401282 = 0.042202\text{s}$$

4. What is the Internet address of the gaia.cs.umass.edu (also known as www net.cs.umass.edu)?



IP: 128.119.245.12

5. 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.

Answer is in a separate file: GET and OK Message.pdf