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- 1. Packet sniffer and its structure.
- 2. Steps involved in installation and running the wireshark with its components.
- 3. Steps for capturing packets using URL given below: http://gaia.cs.umass.edu/wireshark-labs/INTRO-wireshark-file1.html
- 4. After your browser has displayed the INTRO-wireshark-file1.html page, stop Wireshark packet capture by selecting stop in the Wireshark capture window. Type in "http" into the display filter specification window at the top of the main Wireshark window. Then select Apply or just hit return. Find the HTTP GET message that was sent from your computer to the gaia.cs.umass.edu HTTP server.

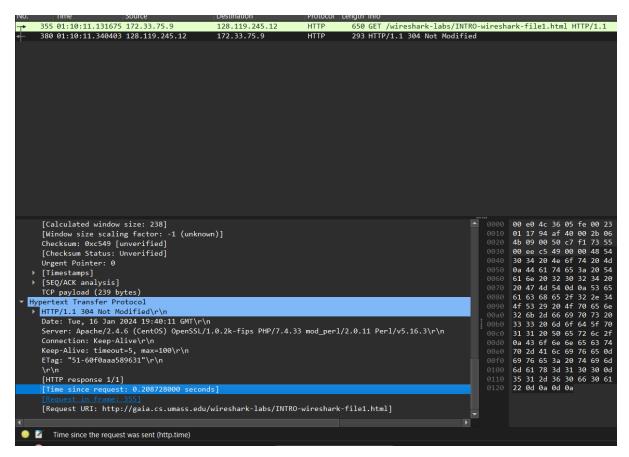


Answer the following questions:

a) In the unfiltered packet-listing window in step above, list the three distinct protocols that are present in the protocol column.

No.	Time	Source	Destination	Protocol	Length Info
	346 01:10:11.038645	142.251.42.65	172.33.75.9	QUIC	654 Protected Payload (KP0)
	347 01:10:11.039333	172.33.75.9	142.251.42.65	QUIC	77 Protected Payload (KP0), DCID=fa9b7e4938ca83f7
	348 01:10:11.040480	142.251.42.65	172.33.75.9	QUIC	64 Protected Payload (KP0)
	349 01:10:11.057459	172.33.75.9	142.250.66.14	QUIC	74 Protected Payload (KP0), DCID=ea98f22061f1fe67
	350 01:10:11.073495	172.33.75.9	142.251.42.65	QUIC	74 Protected Payload (KP0), DCID=fa9b7e4938ca83f7
	351 01:10:11.074412	142.251.42.65	172.33.75.9	QUIC	66 Protected Payload (KP0)
	352 01:10:11.079226	142.251.42.65	172.33.75.9	QUIC	64 Protected Payload (KP0)
	353 01:10:11.079488	172.33.75.9	142.251.42.65	QUIC	75 Protected Payload (KP0), DCID=fa9b7e4938ca83f7
	354 01:10:11.105762	172.33.75.9	142.250.70.78	UDP	71 60855 → 443 Len=29
⊤Þ	355 01:10:11.131675	172.33.75.9	128.119.245.12	HTTP	650 GET /wireshark-labs/INTRO-wireshark-file1.html HTTP/1.1
	356 01:10:11.152499	142.250.70.78	172.33.75.9	UDP	66 443 → 60855 Len=24
	357 01:10:11.166586	142.250.66.14	172.33.75.9	QUIC	716 Protected Payload (KP0)
	358 01:10:11.166586	142.250.66.14	172.33.75.9	QUIC	101 Protected Payload (KP0)
	359 01:10:11.167272	172.33.75.9	142.250.66.14	QUIC	77 Protected Payload (KP0), DCID=ea98f22061f1fe67
	360 01:10:11.196220	142.250.70.78	172.33.75.9	UDP	1292 443 → 60855 Len=1250
:	361 01:10:11.196220	142.250.70.78	172.33.75.9	UDP	73 443 → 60855 Len=31
	362 01:10:11.196220	142.250.66.14	172.33.75.9	QUIC	716 Protected Payload (KP0)
:	363 01:10:11.196645	172.33.75.9	142.250.66.14	QUIC	75 Protected Payload (KP0), DCID=ea98f22061f1fe67
	364 01:10:11.197122	172.33.75.9	142.250.70.78	UDP	77 60855 → 443 Len=35
	365 01:10:11.209375	142.250.70.78	172.33.75.9	UDP	63 443 → 60855 Len=21

b) How long did it take between sending the HTTP GET message and receiving the HTTP OK response? (By default, the Time column in the packet listing window displays the duration of Wireshark tracing in seconds. Select the Wireshark View pull-down menu, then click Time Show Format, then click Time-of-day to display the Time field in time-of-day format.)



c) 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?

