Computer Network Lab CS359

Tanishq Malu Lab1: Wireshark Intro 1901CS63

Questions

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

Ans: Three Different protocols which I received while capturing the packets are:

- a. TCP: The Transmission Control Protocol (TCP) is a transport protocol that is used on top of IP to ensure reliable transmission of packets.
- b. QUIC: QUIC (Quick UDP Internet Connections, pronounced quick) is a general-purpose transport layer network.
- c. ICMPv6: Internet Control Message Protocol version 6 is a protocol which acts as a communication messenger protocol between the communicating devices in IP network

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No.	Ti	Time	Source	Destination	Protocol	Length Info	
	125 8	3.614218	192.168.29.138	128.119.245.12	TCP	66 62274 → 80 [SYN] Seq=0 Win=64240 Len=0 MSS=1460 WS=256 SACK_PERM	
	126 8	3.637420	2404:6800:4009:829:	2405:201:3006:f00d:	QUIC	87 Protected Payload (KP0)	
	127 8	3.671791	128.119.245.12	192.168.29.138	TCP	66 80 → 62273 [SYN, ACK] Seq=0 Ack=1 Win=29200 Len=0 MSS=1460 SACK	
	128 8	3.671927	192.168.29.138	128.119.245.12	TCP	54 62273 → 80 [ACK] Seq=1 Ack=1 Win=131328 Len=0	
-	129 8	3.672480	192.168.29.138	128.119.245.12	HTTP	530 GET /wireshark-labs/INTRO-wireshark-file1.html HTTP/1.1	
	130 8	3.690261	128.119.245.12	192.168.29.138	TCP	66 80 → 62272 [SYN, ACK] Seq=0 Ack=1 Win=29200 Len=0 MSS=1460 SACK	
	131 8	3.690393	192.168.29.138	128.119.245.12	TCP	54 62272 → 80 [ACK] Seq=1 Ack=1 Win=131328 Len=0	
	132 8	3.894538	128.119.245.12	192.168.29.138	TCP	66 80 → 62274 [SYN, ACK] Seq=0 Ack=1 Win=29200 Len=0 MSS=1460 SACK	
	133 8	3.894669	192.168.29.138	128.119.245.12	TCP	54 62274 → 80 [ACK] Seq=1 Ack=1 Win=131328 Len=0	
	134 8	3.948906	128.119.245.12	192.168.29.138	TCP	54 80 → 62273 [ACK] Seq=1 Ack=477 Win=30336 Len=0	
4	135 8	3.949509	128.119.245.12	192.168.29.138	HTTP	492 HTTP/1.1 200 OK (text/html)	
	136 8	3.991025	192.168.29.138	128.119.245.12	TCP	54 62273 → 80 [ACK] Seq=477 Ack=439 Win=130816 Len=0	
+	137 9	.122177	192.168.29.138	128.119.245.12	HTTP	476 GET /favicon.ico HTTP/1.1	
	138 9	360525	fe80::1afd:cbff:fea	2405:201:3006:f00d:	ICMPv6	86 Neighbor Solicitation for 2405:201:3006:f00d:21b0:ee4b:2433:bbd7	
	139 9	360640	2405:201:3006:f00d:	fe80::1afd:cbff:fea	ICMPv6	86 Neighbor Advertisement 2405:201:3006:f00d:21b0:ee4b:2433:bbd7 (s	

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 packetlisting 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*.)

Ans: Time when HTTP Get request was sent: 17:25:18.400096

Time when HTTP OK reply was received: 17:25:18.677125

Time Difference = 0.277029 seconds

	125 17:25:18.3418 126 17:25:18.3650 127 17:25:18.3994	36 2404:6800:4009:829: 37 128.119.245.12	128.119.245.12 2405:201:3006:f00d: 192.168.29.138	TCP QUIC TCP	66 62274 → 80 [SYN] Seq=0 Win=64240 Len=0 MSS=1460 WS=256 SACK_PE 87 Protected Payload (KP0) 66 80 → 62273 [SYN, ACK] Seq=0 Ack=1 Win=29200 Len=0 MSS=1460 SAC
-	129 17:25:18.4000		128.119.245.12	НТТР	530 GET /wireshark-labs/INTRO-wireshark-file1.html HTTP/1.1
	131 17:25:18.4180 132 17:25:18.6221 133 17:25:18.6222	54 128.119.245.12	128.119.245.12 192.168.29.138 128.119.245.12	TCP TCP TCP	54 62272 → 80 [ACK] Seq=1 Ack=1 Win=131328 Len=0 66 80 → 62274 [SYN, ACK] Seq=0 Ack=1 Win=29200 Len=0 MSS=1460 SAC 54 62274 → 80 [ACK] Seq=1 Ack=1 Win=131328 Len=0
4	135 17:25:18.6771	25 128.119.245.12	192.168.29.138	НТТР	492 HTTP/1.1 200 OK (text/html)
		93 192.168.29.138 41 fe80::1afd:cbff:fea 66 2405:201:3006:f00d:			476 GET /favicon.ico HTTP/1.1 86 Neighbor Solicitation for 2405:201:3006:f00d:21b0:ee4b:2433:bb 86 Neighbor Advertisement 2405:201:3006:f00d:21b0:ee4b:2433:bbd

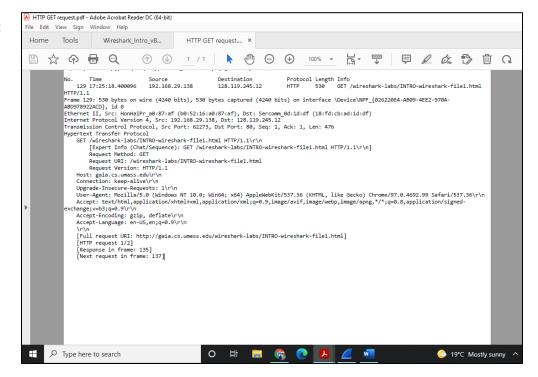
3. What is the Internet address of the gaia.cs.umass.edu (also known as wwwnet.cs.umass.edu)? What is the Internet address of your computer?

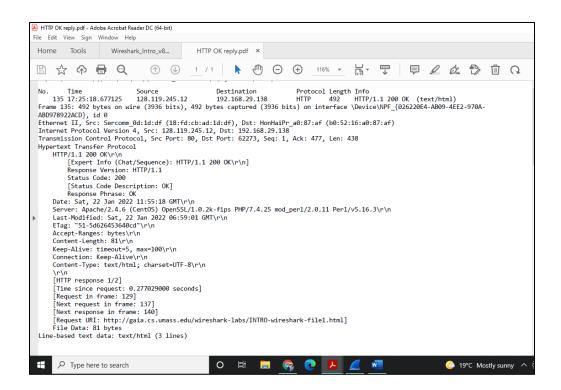
Ans: IP address of gaia.cs.umass.edu : 128.119.245.12

IP address of my computer : 192.168.29.138

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.

Ans:





The End