

ĐẠI HỌC QUỐC GIA THÀNH PHỐ HỒ CHÍ MINH
TRƯỜNG ĐẠI HỌC BÁCH KHOA
KHOA KHOA HỌC VÀ KỸ THUẬT MÁY TÍNH



MẠNG MÁY TÍNH THỰC HÀNH - CO3094

Báo cáo:

Lab1a

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Thành phố Hồ Chí Minh, tháng 3 năm 2025



1 Lab1a

1.1 Question 1

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

Answer:

3 protocols that appear are: TCP, TLSv1.2 and UDP.

No.	Time	Source	Destination	Protocol	Length	Info
49	12.624518	10.230.69.50	142.250.198.202	UDP	71	64419 → 443 Len=29
50	12.677574	142.250.198.202	10.230.69.50	UDP	67	443 → 64419 Len=25
51	12.890982	10.230.69.50	142.250.198.202	UDP	71	64419 → 443 Len=29
52	12.943677	142.250.198.202	10.230.69.50	UDP	67	443 → 64419 Len=25
53	13.158652	10.230.69.50	142.250.198.202	UDP	71	64419 → 443 Len=29
54	13.210650	142.250.198.202	10.230.69.50	UDP	67	443 → 64419 Len=25
55	13.614420	10.230.69.50	142.250.198.202	UDP	71	64419 → 443 Len=29
56	13.666818	142.250.198.202	10.230.69.50	UDP	67	443 → 64419 Len=25
57	14.476398	10.230.69.50	142.250.198.202	UDP	71	64419 → 443 Len=29
58	14.528757	142.250.198.202	10.230.69.50	UDP	67	443 → 64419 Len=25
59	14.653816	10.230.69.50	142.250.76.227	UDP	144	60991 → 443 Len=102
60	14.711459	142.250.76.227	10.230.69.50	UDP	168	443 → 60991 Len=126
61	14.711596	142.250.76.227	10.230.69.50	UDP	64	443 → 60991 Len=22
62	14.712352	10.230.69.50	142.250.76.227	UDP	77	60991 → 443 Len=35
63	14.779709	142.250.76.227	10.230.69.50	UDP	66	443 → 60991 Len=24
64	15.852750	10.230.69.50	142.250.198.234	TCP	55	50981 → 443 [ACK] Seq=1 Ack=1 Win=509 Len=1
65	15.906505	142.250.198.234	10.230.69.50	TCP	68	443 → 50981 [ACK] Seq=1 Ack=2 Win=1047 Len=0 SLE=1 SRE=2
66	16.134497	10.230.69.50	142.250.198.202	UDP	71	64419 → 443 Len=29
67	16.188174	142.250.198.202	10.230.69.50	UDP	67	443 → 64419 Len=25
68	17.127780	34.120.52.64	10.230.69.50	TLSv1.2	84	Application Data[Malformed Packet]
69	17.129928	10.230.69.50	34.120.52.64	TLSv1.2	85	Application Data
70	17.186687	34.120.52.64	10.230.69.50	TCP	56	443 → 50400 [ACK] Seq=28 Ack=32 Win=1038 Len=0
71	19.401653	10.230.69.50	142.250.198.202	UDP	71	64419 → 443 Len=29
72	19.454184	142.250.198.202	10.230.69.50	UDP	67	443 → 64419 Len=25

1.2 Question 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.)

Answer:

The GET was sent at 6.987752 and the OK was received at 6.995812. It took approximately 0.8060 seconds to go from HTTP ET to HTTP OK



File Edit View Go Capture Analyze Statistics Telephony Wireless Tools Help						
http						
No.	Time	Source	Destination	Protocol	Length	Info
249	6.987752	10.230.69.50	113.171.234.25	HTTP	208	GET /connecttest.txt HTTP/1.1
251	6.995812	113.171.234.25	10.230.69.50	HTTP	241	HTTP/1.1 200 OK (text/plain)

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?

Answer:

The IP address of the `gaia.cs.umass.edu` is ***113.171.234.25*** and the IP of my computer is ***10.230.69.50***

1.3 Question 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.

Answer:

No.	Time	Source	Destination	Protocol	Length	Info
249	6.987752	10.230.69.50	113.171.234.25	HTTP	208	GET /connecttest.txt HTTP/1.1
Frame 249: 208 bytes on wire (1664 bits), 208 bytes captured (1664 bits) on interface \Device\NPF_{68272D8F-0FB6-459B-A8CE-97C78398D204}, id 0						
Ethernet II, Src: Intel_93:30:aa (54:6c:eb:93:30:aa), Dst: HewlettPacka_3a:8c:78 (40:a8:f0:3a:8c:78)						
Internet Protocol Version 4, Src: 10.230.69.50, Dst: 113.171.234.25						
Transmission Control Protocol, Src Port: 52644, Dst Port: 80, Seq: 1, Ack: 1, Len: 154						
Hypertext Transfer Protocol						

No.	Time	Source	Destination	Protocol	Length	Info
251	6.995812	113.171.234.25	10.230.69.50	HTTP	241	HTTP/1.1 200 OK (text/plain)
Frame 251: 241 bytes on wire (1928 bits), 241 bytes captured (1928 bits) on interface \Device\NPF_{68272D8F-0FB6-459B-A8CE-97C78398D204}, id 0						
Ethernet II, Src: HewlettPacka_3a:8c:78 (40:a8:f0:3a:8c:78), Dst: Intel_93:30:aa (54:6c:eb:93:30:aa)						
Internet Protocol Version 4, Src: 113.171.234.25, Dst: 10.230.69.50						
Transmission Control Protocol, Src Port: 80, Dst Port: 52644, Seq: 1, Ack: 155, Len: 187						
Hypertext Transfer Protocol						
Line-based text data: text/plain (1 lines)						