

Gretel Rajamoney

Wireshark Lab #1

CS 372 4 – 4 – 2021

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

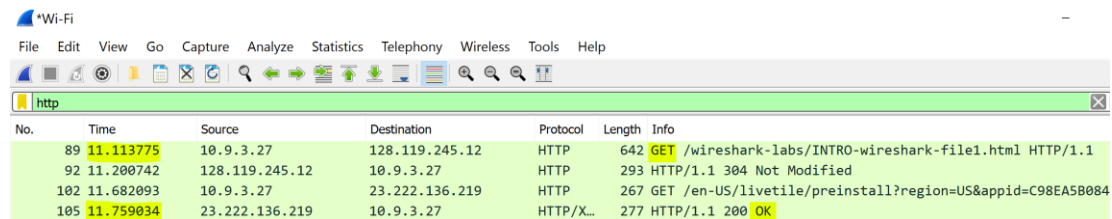
= DNS, HTTP, and TCP

No.	Time	Source	Destination	Protocol	Length
93	11.241936	10.9.3.27	128.119.245.12	TCP	54
94	11.526941	10.9.3.27	69.5.139.3	DNS	94
95	11.528730	10.9.3.27	69.5.139.3	DNS	94
96	11.585732	69.5.139.3	10.9.3.27	DNS	500
97	11.585732	69.5.139.3	10.9.3.27	DNS	242
98	11.605807	10.9.3.27	23.222.136.219	TCP	66
99	11.626097	10.9.3.27	52.114.88.20	TCP	66
100	11.681334	23.222.136.219	10.9.3.27	TCP	66
101	11.681777	10.9.3.27	23.222.136.219	TCP	54
102	11.682093	10.9.3.27	23.222.136.219	HTTP	267
103	11.755560	23.222.136.219	10.9.3.27	TCP	56
104	11.759034	23.222.136.219	10.9.3.27	TCP	4434

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.)

= 11.759034 – 11.113775

= 0.645259 seconds



The screenshot shows the Wireshark interface with the packet list pane selected. The filter is set to 'http'. The packet list shows packets 89 through 105. Packet 89 is an HTTP GET request to /wireshark-labs/INTRO-wireshark-file1.html. Packet 92 is an HTTP 304 Not Modified response. Packet 102 is an HTTP GET request to /en-US/livetile/preinstall?region=US&appid=C98EA5B084. Packet 105 is an HTTP 200 OK response. The time of packet 89 is 11.113775 and the time of packet 105 is 11.759034.

No.	Time	Source	Destination	Protocol	Length	Info
89	11.113775	10.9.3.27	128.119.245.12	HTTP	642	GET /wireshark-labs/INTRO-wireshark-file1.html HTTP/1.1
92	11.200742	128.119.245.12	10.9.3.27	HTTP	293	HTTP/1.1 304 Not Modified
102	11.682093	10.9.3.27	23.222.136.219	HTTP	267	GET /en-US/livetile/preinstall?region=US&appid=C98EA5B084
105	11.759034	23.222.136.219	10.9.3.27	HTTP/X...	277	HTTP/1.1 200 OK

3. What is the Internet Protocol (IP) address of the gaia.cs.umass.edu? What is the Internet Protocol (IP) address of your computer?

= The IP address of gaia.cs.umass.edu is: 128.119.245.12

= The IP address of my computer is: 10.9.3.27

No.	Time	Source	Destination	Protocol	Length	Info
89	11.113775	10.9.3.27	128.119.245.12	HTTP	642	GET /wireshark-labs/INT
92	11.200742	128.119.245.12	10.9.3.27	HTTP	293	HTTP/1.1 304 Not Modifi
102	11.682093	10.9.3.27	23.222.136.219	HTTP	267	GET /en-US/livetile/pre
105	11.759034	23.222.136.219	10.9.3.27	HTTP/X...	277	HTTP/1.1 200 OK
1259	41.920155	10.9.3.27	10.9.3.200	HTTP	291	GET /dial/dd.xml HTTP/1
1262	41.933918	10.9.3.27	10.9.3.200	HTTP	342	GET /dial/dd.xml HTTP/1
1270	42.199366	10.9.3.200	10.9.3.27	HTTP/X...	1372	HTTP/1.1 200 OK
1272	42.362489	10.9.3.200	10.9.3.27	HTTP/X...	1329	HTTP/1.1 200 OK

> Internet Protocol Version 4, Src: 10.9.3.27, Dst: 128.119.245.12

> Transmission Control Protocol, Src Port: 54154, Dst Port: 80, Seq: 1, Ack: 1, Len: 588

> Hypertext Transfer Protocol

> GET /wireshark-labs/INTRO-wireshark-file1.html HTTP/1.1\r\n

4. Include screenshots of the two HTTP messages (GET and OK) referred to in question 2 above. Make sure to include at least: Arrival Time, Total Length, Protocol, Source IP address, and Destination IP address.

= GET HTTP message

No.	Time	Source	Destination	Protocol	Length	Info
89	11.113775	10.9.3.27	128.119.245.12	HTTP	642	GET /wireshark-labs/INTRO-wireshark-file1.html HTTP/1.1
92	11.200742	128.119.245.12	10.9.3.27	HTTP	293	HTTP/1.1 304 Not Modified
102	11.682093	10.9.3.27	23.222.136.219	HTTP	267	GET /en-US/livetile/preinstall?region=US&appid=C98EA5B088
105	11.759034	23.222.136.219	10.9.3.27	HTTP/X...	277	HTTP/1.1 200 OK
1259	41.920155	10.9.3.27	10.9.3.200	HTTP	291	GET /dial/dd.xml HTTP/1.1
1262	41.933918	10.9.3.27	10.9.3.200	HTTP	342	GET /dial/dd.xml HTTP/1.1
1270	42.199366	10.9.3.200	10.9.3.27	HTTP/X...	1372	HTTP/1.1 200 OK
1272	42.362489	10.9.3.200	10.9.3.27	HTTP/X...	1329	HTTP/1.1 200 OK

> Frame 89: 642 bytes on wire (5136 bits), 642 bytes captured (5136 bits) on interface \Device\NPF_{FFDA2B70-BB63-4EDC-B439-00326AA141}

> Ethernet II, Src: RivetNet_89:f0:25 (9c:b6:d0:89:f0:25), Dst: Routerbo_e9:80:24 (74:4d:28:e9:80:24)

> Internet Protocol Version 4, Src: 10.9.3.27, Dst: 128.119.245.12

> Transmission Control Protocol, Src Port: 54154, Dst Port: 80, Seq: 1, Ack: 1, Len: 588

> Hypertext Transfer Protocol

> GET /wireshark-labs/INTRO-wireshark-file1.html HTTP/1.1\r\n

Host: gaia.cs.umass.edu\r\n

= OK HTTP message

No.	Time	Source	Destination	Protocol	Length	Info
89	11.113775	10.9.3.27	128.119.245.12	HTTP	642	GET /wireshark-labs/INTRO-wireshark-file1.html HTTP/1.1
92	11.200742	128.119.245.12	10.9.3.27	HTTP	293	HTTP/1.1 304 Not Modified
102	11.682093	10.9.3.27	23.222.136.219	HTTP	267	GET /en-US/livetile/preinstall?region=US&appid=C98EA5B084
105	11.759034	23.222.136.219	10.9.3.27	HTTP/X...	277	HTTP/1.1 200 OK
1259	41.920155	10.9.3.27	10.9.3.200	HTTP	291	GET /dial/dd.xml HTTP/1.1
1262	41.933918	10.9.3.27	10.9.3.200	HTTP	342	GET /dial/dd.xml HTTP/1.1
1270	42.199366	10.9.3.200	10.9.3.27	HTTP/X...	1372	HTTP/1.1 200 OK
1272	42.362489	10.9.3.200	10.9.3.27	HTTP/X...	1329	HTTP/1.1 200 OK

> Frame 105: 277 bytes on wire (2216 bits), 277 bytes captured (2216 bits) on interface \Device\NPF_{FFDA2B70-BB63-4EDC-B439-00326AA141}

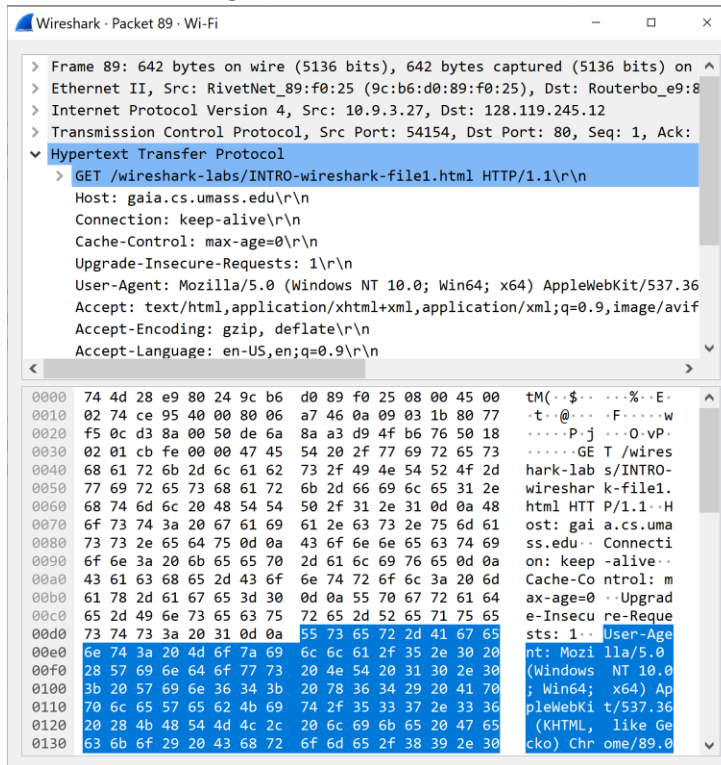
> Ethernet II, Src: Routerbo_e9:80:24 (74:4d:28:e9:80:24), Dst: RivetNet_89:f0:25 (9c:b6:d0:89:f0:25)

> Internet Protocol Version 4, Src: 23.222.136.219, Dst: 10.9.3.27

> Transmission Control Protocol, Src Port: 80, Dst Port: 54156, Seq: 4381, Ack: 214, Len: 223

> [2 Reassembled TCP Segments (4603 bytes): #104(4380), #105(223)]

= GET HTTP message (Packet in a New Window)



= OK HTTP message (Packet in a New Window)

