

Họ Và Tên: Phạm Thị Hồng Hạnh  
Mã SV: 15022830

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

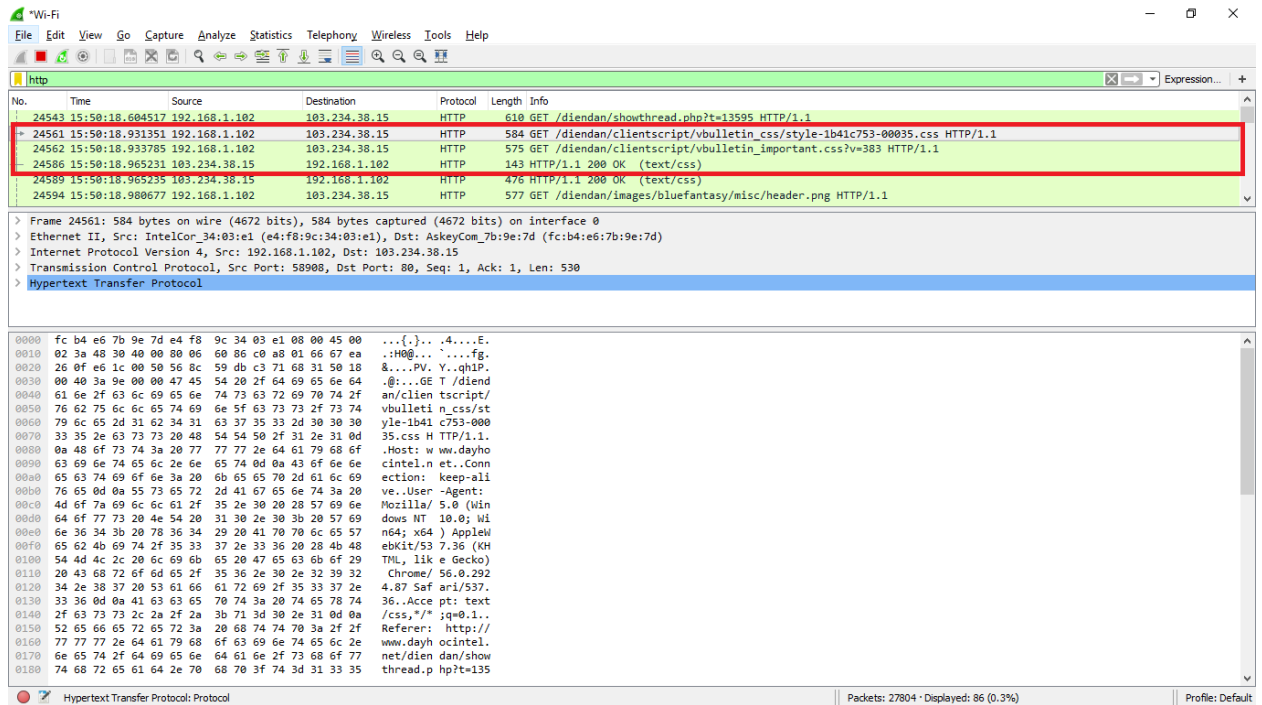
Answer:

- QUIC
- TLS
- ARP
- UDP
- TCP
- HTTP
- SSDP
- IGMP
- DNS
- MDNS

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.)

Answer:

- The HTTP was sent at 18.931351 and the reply was received at 18.965231. The delay was 0.03388.



- 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?  
Answer:

Internet address gaia.cs.umass.edu: 125.235.4.59

Internet address my computer: 192.168.1.102

- Print the two HTTP messages displayed in step 9 above. To do so, select Print from the Wireshark File command menu, and select “Selected Packet Only” and “Print as displayed” and then click OK.

Answer:

GET HTTP:

24561 15:50:18.931351 192.168.1.102 103.234.38.15 HTTP

584 GET /diendan/clientscript/vbulletin\_css/style-1b41c753-00035.css HTTP/1.1

Frame 24561: 584 bytes on wire (4672 bits), 584 bytes captured

(4672 bits) on interface 0 Interface id: 0 (\Device\NPF\_{88AC6491-510A-4D87-A6EF-C4ECD466ECD9}) Encapsulation type: Ethernet (1)  
Arrival Time: Feb 22, 2017 22:50:18.931351000 SE Asia Standard Time  
[Time shift for this packet: 0.000000000 seconds] Epoch Time:  
1487778618.931351000 seconds [Time delta from previous captured  
frame: 0.003497000 seconds] [Time delta from previous displayed frame:  
0.326834000 seconds] [Time since reference or first frame:  
176.855383000 seconds] Frame Number: 24561 Frame Length: 584  
bytes (4672 bits) Capture Length: 584 bytes (4672 bits) [Frame is  
marked: False] [Frame is ignored: False] [Protocols in frame:  
eth:ethertype:ip:tcp:http] [Coloring Rule Name: HTTP] [Coloring Rule  
String: http || tcp.port == 80 || http2] Ethernet II, Src: IntelCor\_34:03:e1  
(e4:f8:9c:34:03:e1), Dst: AskeyCom\_7b:9e:7d (fc:b4:e6:7b:9e:7d)  
Destination: AskeyCom\_7b:9e:7d (fc:b4:e6:7b:9e:7d) Source:  
IntelCor\_34:03:e1 (e4:f8:9c:34:03:e1) Type: IPv4 (0x0800) Internet  
Protocol Version 4, Src: 192.168.1.102, Dst: 103.234.38.15 0100 .... =  
Version: 4 .... 0101 = Header Length: 20 bytes (5) Differentiated  
Services Field: 0x00 (DSCP: CS0, ECN: Not-ECT) Total Length: 570  
Identification: 0x4830 (18480) Flags: 0x02 (Don't Fragment) Fragment  
offset: 0 Time to live: 128 Protocol: TCP (6) Header checksum:  
0x6086 [validation disabled] [Header checksum status: Unverified]  
Source: 192.168.1.102 Destination: 103.234.38.15 [Source GeoIP:  
Unknown] [Destination GeoIP: Unknown] Transmission Control Protocol,  
Src Port: 58908, Dst Port: 80, Seq: 1, Ack: 1, Len: 530 Hypertext Transfer  
Protocol GET /diendan/clientscript/vbulletin\_css/style-1b41c753-  
00035.css HTTP/1.1\r\n Host: www.dayhocintel.net\r\n Connection:  
keep-alive\r\n User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64)  
AppleWebKit/537.36 (KHTML, like Gecko) Chrome/56.0.2924.87  
Safari/537.36\r\n Accept: text/css,\*/\*;q=0.1\r\n Referer:  
http://www.dayhocintel.net/diendan/showthread.php?t=13595\r\n Accept-  
Encoding: gzip, deflate, sdch\r\n Accept-Language: en-  
US,en;q=0.8,vi;q=0.6\r\n Cookie:  
bbsessionhash=948509d0df864740573808420b92bad9;  
bbblastvisit=1487777344; bbblastactivity=0\r\n \r\n [Full request URI:  
http://www.dayhocintel.net/diendan/clientscript/vbulletin\_css/style-

1b41c753-00035.css] [HTTP request 1/7] [Response in frame: 24586]  
[Next request in frame: 24682]  
HTTP OK:  
24561 15:50:18.931351 192.168.1.102 103.234.38.15 HTTP  
584 GET /diendan/clientscript/vbulletin\_css/ style-1b41c753-00035.css  
HTTP/1.1 Frame 24561: 584 bytes on wire (4672 bits), 584 bytes captured  
(4672 bits) on interface 0 Interface id: 0 (\Device\NPF\_{88AC6491-510A-  
4D87-A6EF-C4ECD466ECD9}) Encapsulation type: Ethernet (1)  
Arrival Time: Feb 22, 2017 22:50:18.931351000 SE Asia Standard Time  
[Time shift for this packet: 0.000000000 seconds] Epoch Time:  
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0.326834000 seconds] [Time since reference or first frame:  
176.855383000 seconds] Frame Number: 24561 Frame Length: 584  
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Src Port: 58908, Dst Port: 80, Seq: 1, Ack: 1, Len: 530 Hypertext Transfer  
Protocol GET /diendan/clientscript/vbulletin\_css/style-1b41c753-  
00035.css HTTP/1.1\r\n Host: www.dayhocintel.net\r\n Connection:  
keep-alive\r\n User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64)  
AppleWebKit/537.36 (KHTML, like Gecko) Chrome/56.0.2924.87  
Safari/537.36\r\n Accept: text/css,\*/\*;q=0.1\r\n Referer:

http://www.dayhocintel.net/diendan/showthread.php?t=13595\r\n Accept-  
Encoding: gzip, deflate, sdch\r\n Accept-Language: en-  
US,en;q=0.8,vi;q=0.6\r\n Cookie:  
bbsessionhash=948509d0df864740573808420b92bad9;  
bbblastvisit=1487777344; bbblastactivity=0\r\n \r\n [Full request URI:  
http://www.dayhocintel.net/diendan/clientscript/vbulletin\_css/style-  
1b41c753-00035.css] [HTTP request 1/7] [Response in frame: 24586]  
[Next request in frame: 24682]