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Class : BCSE III
Assignment No : 5

Subject : Computer Network

Group: A1

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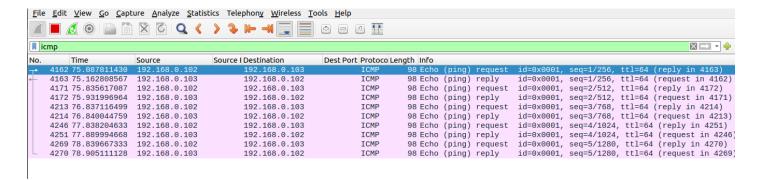
### **Overview**

Wireshark is an open source cross-platform packet capture and analysis tool, with versions for Windows and Linux. The GUI window gives a detailed breakdown of the network protocol stack for each packet, colourizing packet details based on protocol, as well as having functionality to filter and search the traffic, and pick out TCP streams. Wireshark can also save packet data to files for offline analysis and export/import packet captures to/from other tools. Statistics can also be generated for packet capture files.

1. Generate some ICMP traffic by using the Ping command line tool to check the connectivity of a neighbouring machine (or router). Note the results in Wireshark. The initial ARP request broadcast from your PC determines the physical MAC address of the network IP Address, and the ARP reply from the neighbouring system. After the ARP request, the pings (ICMP echo request and replies) can be seen.

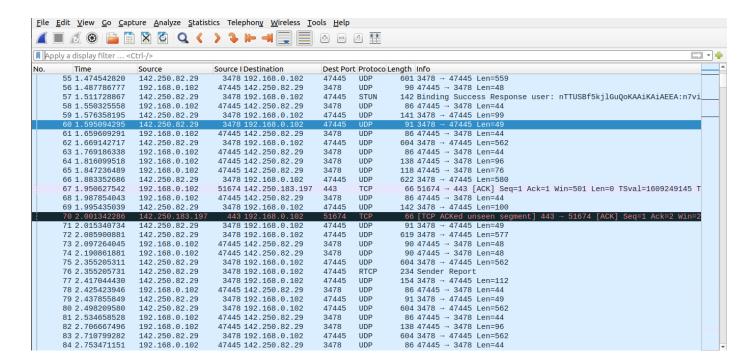
```
(base) tanmoy@tanmoy-laptop:~$ ping 192.168.0.103 -c 5
PING 192.168.0.103 (192.168.0.103) 56(84) bytes of data.
64 bytes from 192.168.0.103: icmp_seq=1 ttl=64 time=329 ms
64 bytes from 192.168.0.103: icmp_seq=2 ttl=64 time=96.4 ms
64 bytes from 192.168.0.103: icmp_seq=3 ttl=64 time=2.95 ms
64 bytes from 192.168.0.103: icmp_seq=4 ttl=64 time=51.8 ms
64 bytes from 192.168.0.103: icmp_seq=5 ttl=64 time=65.5 ms

--- 192.168.0.103 ping statistics ---
5 packets transmitted, 5 received, 0% packet loss, time 4006ms
rtt min/avg/max/mdev = 2.949/109.085/328.769/113.900 ms
```

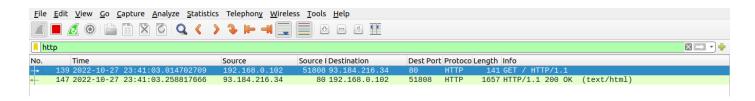


### 2. Generate some web traffic and

a. find the list of the different protocols that appear in the protocol column in the unfiltered packet-listing window of Wireshark.



b. 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.)

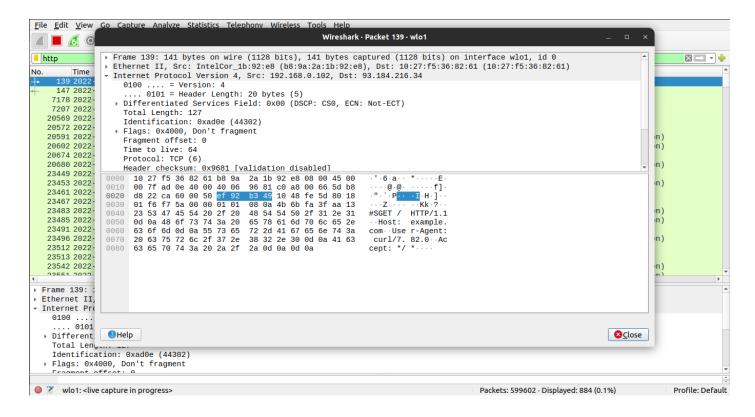


Request sent at 23:41:03.014702709 and received response at 23:41:03.258817666. So, delay = 0.244114957 seconds

c. What is the Internet address of the website? What is the Internet address of your computer?

Internet address of website: 93.184.216.34 Internet address of computer: 192.168.0.102

d. Search back through your capture, and find an HTTP packet containing a GET command. Click on the packet in the Packet List Panel. Then expand the HTTP layer in the Packet Details Panel, from the packet.



e. Find out the value of the Host from the Packet Details Panel, within the GET command.

```
Source: 192.168.0.102
    Destination: 93.184.216.34
> Transmission Control Protocol, Src Port: 51808, Dst Port: 80, Seq: 1, Ack: 1, Len: 75
→ Hypertext Transfer Protocol
  GET / HTTP/1.1\r\n
    User-Agent: curl/7.82.0\r\n
    Accept: */*\r\n
    \r\n
    [Full request URI: http://example.com/]
    [HTTP request 1/1]
    [Response in frame: 147]
       10 27 f5 36 82 61 b8 9a
                                    2a 1b 92 e8 08 00 45 00
                                                                     6 · a ·
0010
      00 7f ad 0e 40 00 40 06
                                    96 81 c0 a8 00 66 5d b8
                                                                      - @ - @ -
                                                                            · · · · · f]
                                                                             \cdot \mathbf{I} \cdot \mathbf{H} \cdot \mathbf{]}
0020
       d8 22 ca 60 00 50 ef 92
                                   b3 49 10 48 fe 5d 80 18
                                                                       ٠Р.
                                                                  · · · Z ·
0030
      01 f6 f7 5a 00 00 01 01
                                    08 0a 4b 6b fa 3f aa 13
                                                                             · · Kk · ?
      23 53 47 45 54 20 2f 20
                                    48 54 54 50 2f 31 2e 31
                                                                  #SGET /
                                                                            HTTP/1.1
0050
       0d 0a 48 6f
              48 6f 73 74 3a 20
6d 0d 0a<mark> 55 73 65</mark>
0060
                                    72 2d 41 67 65 6e 74 3a
                                                                  com··Use r-Agent:
                                                                  curl/7. 82.0··Ac
cept: */ *····
      20 63 75 72 6c 2f 37 2e
                                   38 32 2e 30 0d 0a 41 63
      63 65 70 74 3a 20 2a 2f
                                   2a 0d 0a 0d 0a
```

Host: example.com

3. Highlight the Hex and ASCII representations of the packet in the Packet Bytes Panel

```
Flags: 0x4000, Don't fragment
            Fragment offset: 0
             Time to live: 64
            Protocol: TCP (6)
            Header checksum: 0x9681 [validation disabled]
             [Header checksum status: Unverified]
            Source: 192.168.0.102
            Destination: 93.184.216.34
Transmission Control Protocol, Src Port: 51808, Dst Port: 80, Seq: 1, Ack: 1, Len: 75
    Hypertext Transfer Protocol
      Fight Fight Get Fight Fig
              User-Agent: curl/7.82.0\r\n
                   10 27 f5 36 82 61 b8 9a
                                                                                                         2a 1b 92 e8 08 00 45 00
                                                                                                                                                                                                           . 6 · a ·
                                                                                                         96 81 c0 a8 00 66 5d b8
                                                                                                                                                                                                      . . . @ . @ .
                                                                                                                                                                                                                                             ..f]
                    00 7f ad 0e 40 00 40 06
0010
                                                                                                                                                                                                                 · P · ·
                   d8 22 ca 60 00 50 ef 92
                                                                                                         b3 49 10 48 fe 5d 80 18
                                                                                                                                                                                                                                  ·I·H·l·
                                                                                                         08 0a 4b 6b fa 3f aa 13
                                                                                                                                                                                                    · · · Z ·
                    01 f6 f7 5a 00 00 01 01
                                                                                                                                                                                                                                     · Kk · ?
                    23 53 47 45 54 20 2f 20
                                                                                                          48 54 54 50 2f 31 2e 31
                                                                                                                                                                                                   #SGET /
                                                                                                                                                                                                                                 HTTP/1.1
0050
                                                                                                                                                                                                                 Use r-Agent:
0060
                                         6d 0d
                                                             0a 55 73 65
                                                                                                          72 2d 41 67 65 6e 74 3a
                     20 63 75 72 6c 2f 37 2e
                                                                                                         38 32 2e 30 0d 0a 41 63
                                                                                                                                                                                                      curl/7. 82.0 · · Ac
                                                                                                                                                                                                   cept: */ *....
                    63 65 70 74 3a 20 2a 2f 2a 0d 0a 0d 0a
```

4. Find out the first 4 bytes of the Hex value of the Host parameter from the Packet Bytes Panel.

First 4 bytes are - 48 6f 73 74

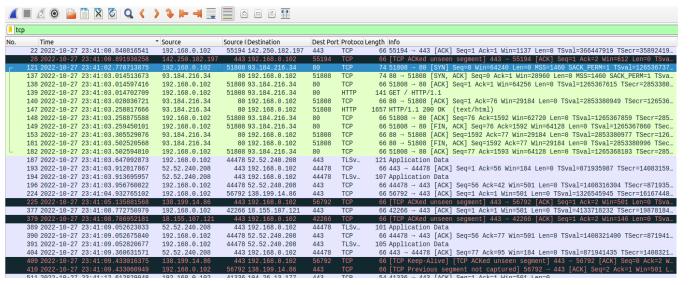
5. Filter packets with http, TCP, DNS and other protocols. a. Find out what those packets contain by following one of the conversations (also called network flows), select one of the packets and press the right mouse button..click on follow.

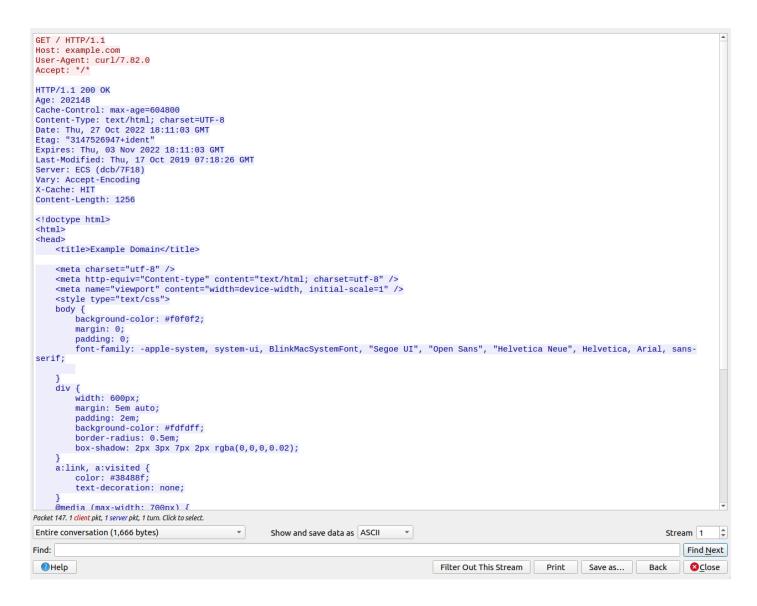
## HTTP:

```
, http
                                                             Source | Destination
                                                                                      Dest Port Protoco Length Info
                                          ▼ Source
                                            93.184.216.34
     147 2022-10-27 23:41:03.258817666
                                                                 80 192.168.0.102
                                                                                                       1657 HTTP/1.1 200 OK (text/html)
                                                                                               HTTP
    7178 2022-10-27 23:43:24.512410642
                                            192.168.0.102
                                                                                                        153 GET / HTTP/1.1
                                                              35082 35.232.111.17
                                            35.232.111.17
                                                                                       35082
    7207 2022-10-27 23:43:24.814648403
                                                                 80 192.168.0.102
                                                                                               HTTP
                                                                                                        214 HTTP/1.1 204 No Content
   20569 2022-10-27 23:44:58.498855785
                                            192.168.0.102
                                                              34994 43.205.231.38
                                                                                      5555
                                                                                               HTTP
                                                                                                        658 POST /api HTTP/1.1
935 POST /api HTTP/1.1
                                                                                                                                 (text/plain)
(text/plain)
   20572 2022-10-27 23:44:58.499589794
                                                              35008 43.205.231.38
                                                                                               HTTP
                                            192.168.0.102
                                                                                      5555
   20591 2022-10-27 23:44:58.678238348
                                            43.205.231.38
                                                               5555 192.168.0.102
                                                                                               HTTP
                                                                                                        417 HTTP/1.1 200 OK
                                                                                                                              (application/json)
   20602 2022-10-27 23:44:58.681594580
                                            43.205.231.38
                                                               5555 192.168.0.102
                                                                                       35008
                                                                                               HTTP
                                                                                                        363 HTTP/1.1 200 OK
                                                                                                                              (application/json)
   20674 2022-10-27 23:44:59.370996586
                                            192.168.0.102
                                                              35008 43.205.231.38
                                                                                      5555
                                                                                               HTTP
                                                                                                        652 POST /api HTTP/1.1
                                                                                                                                 (text/plain)
   20680 2022-10-27 23:44:59.411511248
                                                               5555 192.168.0.102
                                                                                                        411 HTTP/1.1 200 OK
                                            43.205.231.38
                                                                                       35008
                                                                                               HTTP
                                                                                                                              (application/json)
   23449 2022-10-27 23:45:20.754382143
                                                              43522 43.205.231.38
                                                                                                       1056 POST /api HTTP/1.1
                                            192.168.0.102
                                                                                               HTTP
                                                                                                                                 (text/plain)
   23453 2022-10-27 23:45:20.897824553
                                            43.205.231.38
                                                               5555 192.168.0.102
                                                                                       43522
                                                                                               HTTP
                                                                                                        538 HTTP/1.1 200 OK
                                                                                                                              (application/json)
                                                                                                        658 POST /api HTTP/1.1 (text/plain)
935 POST /api HTTP/1.1 (text/plain)
   23461 2022-10-27 23:45:21.015277143
                                            192.168.0.102
                                                              43522 43.205.231.38
                                                                                      5555
                                                                                               HTTP
   23467 2022-10-27 23:45:21.076804766
                                                              43534 43.205.231.38
                                            192.168.0.102
                                                                                      5555
                                                                                               HTTP
   23483 2022-10-27 23:45:21.211047943
                                            43.205.231.38
                                                               5555 192.168.0.102
                                                                                       43534
                                                                                               HTTP
                                                                                                        402 HTTP/1.1 200 OK
                                                                                                                              (application/json)
                                                                                                                              (application/json)
   23485 2022-10-27 23:45:21.211174419
                                            43.205.231.38
                                                               5555 192.168.0.102
                                                                                                        417 HTTP/1.1 200 OK
                                                                                       43522
                                                                                               HTTP
   23491 2022-10-27 23:45:21.347286297
                                            192.168.0.102
                                                              43534 43.205.231.38
                                                                                      5555
                                                                                               HTTP
                                                                                                        678 POST /api HTTP/1.1
                                                                                                                                 (text/plain)
                                                                                                        412 HTTP/1.1 200 OK
   23496 2022-10-27 23:45:21.400962375
                                            43.205.231.38
                                                               5555 192.168.0.102
                                                                                       43534
                                                                                               HTTP
                                                                                                                              (application/json)
   23512 2022-10-27 23:45:21.672231397
                                            192.168.0.102
                                                              43534 43.205.231.38
                                                                                               HTTP
                                                                                                        658 POST /api HTTP/1.1
                                                                                      5555
                                                                                                                                 (text/plain)
    23513 2022-10-27 23:45:21.672783075
                                                              43522 43.205.231.38
                                                                                                        935 POST /api HTTP/1.1
                                            192.168.0.102
   23542 2022-10-27 23:45:21.858434893
                                            43.205.231.38
                                                               5555 192.168.0.102
                                                                                      43534
                                                                                               HTTP
                                                                                                        417 HTTP/1.1 200 OK
                                                                                                                              (application/json)
   23551 2022-10-27 23:45:21.863741268
                                            43.205.231.38
                                                               5555 192.168.0.102
                                                                                               HTTP
                                                                                                        402 HTTP/1.1 200 OK
                                                                                      43522
                                                                                                                              (application/json)
   23571 2022-10-27 23:45:22.122402607
                                            192.168.0.102
                                                              43522 43.205.231.38
                                                                                      5555
                                                                                               HTTP
                                                                                                        673 POST /api HTTP/1.1
                                                                                                                                 (text/plain)
   23573 2022-10-27 23:45:22.127720872
                                            192.168.0.102
                                                              43534 43.205.231.38
                                                                                      5555
                                                                                               HTTP
                                                                                                        840 POST /api HTTP/1.1
                                                                                                                                 (text/plain)
    23629 2022-10-27 23:45:22.300380729
                                            43.205.231.38
                                                               5555 192.168.0.102
                                                                                       43534
                                                                                               HTTP
                                                                                                       1065 HTTP/1.1 200 OK
                                                                                                                              (application/json
   23631 2022-10-27 23:45:22.303250549
                                            43,205,231,38
                                                               5555 192.168.0.102
                                                                                      43522
                                                                                              HTTP
                                                                                                        416 HTTP/1.1 200 OK
                                                                                                                              (application/json)
                                                                                               HTTP
   23744 2022-10-27 23:45:23.239964179
                                                              43522 43.205.231.38
                                                                                                        652 POST /api HTTP/1.1 (text/plain)
                                            192.168.0.102
                                                                                      5555
    22752 2022-10-27 22:45:22 207494550
                                                               5555 102 169 A 1A2
                                                                                                        412 HTTD/1 1 200 OK (applicat
```

```
GET / HTTP/1.1
Host: example.com
User-Agent: curl/7.82.0
Accept: */*
HTTP/1.1 200 OK
Age: 202148
Cache-Control: max-age=604800
Content-Type: text/html; charset=UTF-8
Date: Thu, 27 Oct 2022 18:11:03 GMT
Etag: "3147526947+ident"
Expires: Thu, 03 Nov 2022 18:11:03 GMT
Last-Modified: Thu, 17 Oct 2019 07:18:26 GMT
Server: ECS (dcb/7F18)
Vary: Accept-Encoding
X-Cache: HIT
Content-Length: 1256
<!doctype html>
<html>
<head>
     <title>Example Domain</title>
     <meta charset="utf-8" />
     <meta http-equiv="Content-type" content="text/html; charset=utf-8" />
<meta name="viewport" content="width=device-width, initial-scale=1" />
      <style type="text/css">
     body {
          background-color: #f0f0f2;
          margin: 0;
          padding: 0;
           font-family: -apple-system, system-ui, BlinkMacSystemFont, "Segoe UI", "Open Sans", "Helvetica Neue", Helvetica, Arial, sans-
serif;
     div {
          width: 600px;
          margin: 5em auto;
           padding: 2em;
          background-color: #fdfdff:
          border-radius: 0.5em;
          box-shadow: 2px 3px 7px 2px rgba(0,0,0,0.02);
     a:link, a:visited {
          color: #38488f
          text-decoration: none;
     @media (max-width: 700px) {
Packet 147. 1 client pkt, 1 server pkt, 1 turn. Click to select.
Entire conversation (1,666 bytes)
                                                                                                                                              Show and save data as ASCII
                                                                                                                                                                       Find <u>N</u>ext
                                                                                                                                              Save as...
                                                                                                                                                                     ⊗Close
  Help
                                                                                                        Filter Out This Stream Print
                                                                                                                                                              Back
```

## TCP:





# DNS:

As the local system has cached ip of example.com, it need no dns resolution , So DNS request has been tracked by Wireshark

#### UDP:

As there is no DNS query for this particular request and the application need no additional UDP request , So nothing tracked in Wireshark

### ARP:

, a	эгр				
No.	Time	▼ Source	Source I Destination	Dest Port Protoco Le	ength Info
	1659 2022-10-27 23:41:36.302046026		IntelCor_1b:92:	ARP	42 Who has 192.168.0.102? Tell 192.168.0.1
	1660 2022-10-27 23:41:36.302065346	IntelCor_1b:92	10:27:f5:36:82:	ARP	42 192.168.0.102 is at b8:9a:2a:1b:92:e8
	4122 2022-10-27 23:42:22.382523207	10:27:f5:36:82	IntelCor_1b:92:	ARP	42 Who has 192.168.0.102? Tell 192.168.0.1
	4123 2022-10-27 23:42:22.382544501	IntelCor_1b:92	10:27:f5:36:82:	ARP	42 192.168.0.102 is at b8:9a:2a:1b:92:e8
	7505 2022-10-27 23:43:29.215336703	10:27:f5:36:82	IntelCor_1b:92:	ARP	42 Who has 192.168.0.102? Tell 192.168.0.1
	7506 2022-10-27 23:43:29.215388896	IntelCor_1b:92	10:27:f5:36:82:	ARP	42 192.168.0.102 is at b8:9a:2a:1b:92:e8
	14063 2022-10-27 23:44:15.023737149	10:27:f5:36:82	IntelCor_1b:92:	ARP	42 Who has 192.168.0.102? Tell 192.168.0.1
	14064 2022-10-27 23:44:15.023750768	IntelCor_1b:92	10:27:f5:36:82:	ARP	42 192.168.0.102 is at b8:9a:2a:1b:92:e8
	21260 2022-10-27 23:45:03.504256929	10:27:f5:36:82	IntelCor_1b:92:	ARP	42 Who has 192.168.0.102? Tell 192.168.0.1
	21261 2022-10-27 23:45:03.504267521	IntelCor_1b:92	10:27:f5:36:82:	ARP	42 192.168.0.102 is at b8:9a:2a:1b:92:e8
	25471 2022-10-27 23:45:39.600639097	10:27:f5:36:82	IntelCor_1b:92:	ARP	42 Who has 192.168.0.102? Tell 192.168.0.1
	25472 2022-10-27 23:45:39.600657622	IntelCor_1b:92	10:27:f5:36:82:	ARP	42 192.168.0.102 is at b8:9a:2a:1b:92:e8
	30371 2022-10-27 23:46:24.641135740	10:27:f5:36:82	IntelCor_1b:92:	ARP	42 Who has 192.168.0.102? Tell 192.168.0.1
	30372 2022-10-27 23:46:24.641159658	IntelCor_1b:92	10:27:f5:36:82:	ARP	42 192.168.0.102 is at b8:9a:2a:1b:92:e8
	38893 2022-10-27 23:47:03.329616788	10:27:f5:36:82	IntelCor_1b:92:	ARP	42 Who has 192.168.0.102? Tell 192.168.0.1
	38894 2022-10-27 23:47:03.329634621	IntelCor_1b:92	10:27:f5:36:82:	ARP	42 192.168.0.102 is at b8:9a:2a:1b:92:e8
	44813 2022-10-27 23:47:42.257944581	10:27:f5:36:82	IntelCor_1b:92:	ARP	42 Who has 192.168.0.102? Tell 192.168.0.1
	44814 2022-10-27 23:47:42.257968831	IntelCor_1b:92	10:27:f5:36:82:	ARP	42 192.168.0.102 is at b8:9a:2a:1b:92:e8
	50026 2022-10-27 23:48:23.778404553	10:27:f5:36:82	IntelCor_1b:92:	ARP	42 Who has 192.168.0.102? Tell 192.168.0.1
	50027 2022-10-27 23:48:23.778436720	IntelCor_1b:92	10:27:f5:36:82:	ARP	42 192.168.0.102 is at b8:9a:2a:1b:92:e8
	54681 2022-10-27 23:49:02.760005812	10:27:f5:36:82	IntelCor_1b:92:	ARP	42 Who has 192.168.0.102? Tell 192.168.0.1
	54682 2022-10-27 23:49:02.760031924	IntelCor_1b:92	10:27:f5:36:82:	ARP	42 192.168.0.102 is at b8:9a:2a:1b:92:e8
	58983 2022-10-27 23:49:38.835183980	10:27:f5:36:82	<pre>IntelCor_1b:92:</pre>	ARP	42 Who has 192.168.0.102? Tell 192.168.0.1
	58984 2022-10-27 23:49:38.835195681	IntelCor_1b:92	10:27:f5:36:82:	ARP	42 192.168.0.102 is at b8:9a:2a:1b:92:e8
	65598 2022-10-27 23:50:35.219742250	10:27:f5:36:82	IntelCor_1b:92:	ARP	42 Who has 192.168.0.102? Tell 192.168.0.1
	65599 2022-10-27 23:50:35.219770288	IntelCor_1b:92	10:27:f5:36:82:	ARP	42 192.168.0.102 is at b8:9a:2a:1b:92:e8
	78176 2022-10-27 23:50:57.171945354	10:27:f5:36:82	IntelCor_1b:92:	ARP	42 Who has 192.168.0.102? Tell 192.168.0.1

6. Search through your capture, and find an HTTP packet coming back from the server (TCP Source Port == 80). Expand the Ethernet layer in the Packet Details Panel.

```
Frame 147: 1657 bytes on wire (13256 bits), 1657 bytes captured (13256 bits) on interface wlo1, id 0
  Destination: IntelCor_1b:92:e8 (b8:9a:2a:1b:92:e8)
      Address: IntelCor_1b:92:e8 (b8:9a:2a:1b:92:e8)
      .... .0. .... = LG bit: Globally unique address (factory default)
      .... ...0 .... = IG bit: Individual address (unicast)
  ▼ Source: 10:27:f5:36:82:61 (10:27:f5:36:82:61)
      Address: 10:27:f5:36:82:61 (10:27:f5:36:82:61)
      .... .0. .... = LG bit: Globally unique address (factory default)
      .... = IG bit: Individual address (unicast)
    Type: IPv4 (0x0800)
▶ Internet Protocol Version 4, Src: 93.184.216.34, Dst: 192.168.0.102
 Transmission Control Protocol, Src Port: 80, Dst Port: 51808, Seq: 1, Ack: 76, Len: 1591
 Hypertext Transfer Protocol
 Line-based text data: text/html (46 lines)
      b8 9a 2a 1b 92 e8 10 27
                                 36 82 61 08 00 45 00
                                                        · k · · @ · ; ·
· f · P · · · H
0010
      06 6b dd 09 40 00 3b 06
                              65 9a 5d b8 d8 22 c0 a8
                                                                e · ] · ·
0020
      00 66 00 50 ca 60 10 48
                              fe 5d ef 92 b3 94 80 18
                                                                 .]
                                                        .9.F....
      00 39 fd 46 00 00 01 01
                              08 0a aa 13 23 6c 4b 6b
                                                        ·?HTTP/1 .1 200 0
     fa 3f 48 54 54 50 2f 31
                              2e 31 20 32 30 30 20 4f
0050
     4b 0d 0a 41 67 65 3a 20
                              32 30 32 31 34 38 0d 0a
                                                        K · · Age:
                                                                202148
0060
     43 61 63 68 65 2d 43 6f
                              6e 74 72 6f 6c 3a 20 6d
                                                        Cache-Co ntrol: m
0070
     61 78 2d 61 67 65 3d 36
                                                        ax-age=6 04800 · · C
                              30 34 38 30 30 0d 0a 43
                                                        ontent-T ype: tex
0080
     6f 6e 74 65 6e 74 2d 54
                              79 70 65 3a 20 74 65 78
0090
     74 2f 68 74 6d 6c 3b 20
                              63 68 61 72 73 65 74 3d
                                                        t/html; charset=
                                                        UTF-8 D ate: Thu
00a0
     55 54 46 2d 38 0d 0a 44
                              61 74 65 3a 20 54 68 75
```

7. What are the manufacturers of your PC's Network Interface Card (NIC), and the servers NIC?

Manufacturer of my PC's NIC - Intel Manufacturer of server's NIC - Can't be detected by Wireshark

8. What are the Hex values (shown in the raw bytes panel) of the two NICS Manufacturers OUIs?

Hex values of my PC's OUI - b8:9a:2a Hex values of server's OUI - 10:27:f5

## 9. Find the following statistics:

Protocol	Percent Packets	Packets	Percent Bytes	Bytes	Bits/s	End Packets	<b>End Bytes</b>
▼ Frame	100.0	516	100.0	96628	33 k	0	0
▼ Ethernet	100.0	516	7.5	7224	2,532	0	0
<ul> <li>Internet Protocol Version 4</li> </ul>	99.6	514	10.6	10280	3,604	0	0
<ul> <li>User Datagram Protocol</li> </ul>	39.7	205	1.7	1640	574	0	0
Domain Name System	2.7	14	1.2	1133	397	14	1133
Data	37.0	191	35.6	34424	12 k	191	34424
<ul> <li>Transmission Control Protocol</li> </ul>	59.9	309	43.3	41865	14 k	214	11012
Transport Layer Security	11.2	58	26.1	25191	8,832	56	15277
SSH Protocol	5.2	27	3.9	3808	1,335	27	3808
<ul> <li>Hypertext Transfer Protocol</li> </ul>	2.3	12	8.6	8302	2,910	6	2735
Portable Network Graphics	0.2	1	0.1	124	43	1	124
Line-based text data	1.0	5	7.1	6852	2,402	5	5164
Address Resolution Protocol	0.4	2	0.1	56	19	2	56
4							<b> </b>

- a. What percentage of packets in your capture are TCP, and give an example of the higher level protocol which uses TCP?
  - 26.0 % of packets in the capture are TCP
  - Higher level protocols using TCP HTTP, FTP
- b. What percentage of packets in your capture are UDP, and give an example of the higher level protocol which uses UDP?
  - 73.6% packets are UDP
  - Higher level protocols using UDP- SNMP

10.Find the traffic flow Select the Statistics->Flow Graph menu option. Choose General Flow and Network Source options, and click the OK button



