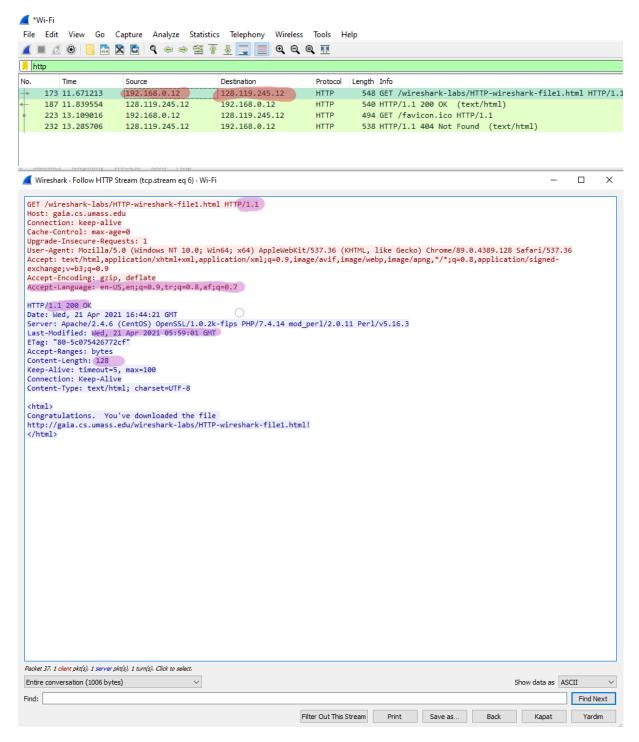
1-) BASIC HHTP GET/ RESPINSE INTERACTION



1-1)

Both of them are 1.1

1-2)

Accepted languages are: en-us, tr, af

1-3)

My IP is: 192.168.0.12

Gaia.cs.umass.edu ip is: 128.119.245.12

1-4)

Status code is: 200

1-5)

Last modified: Wed, 21 Apr 2021 05:59:01 GMT

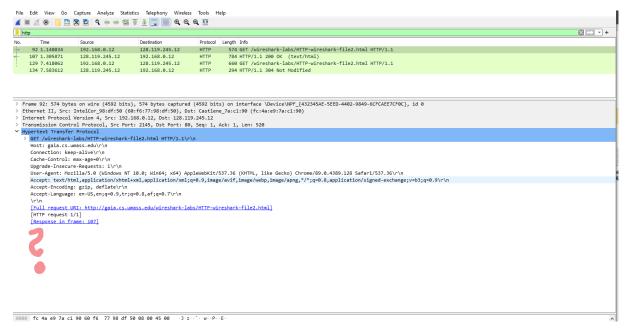
1-6)

128 bytes

1-7)

No.

8



9

```
Internet Protocol Version 4, Src: 128.119.245.12, Dst: 192.168.0.12

Transmission Control Protocol, Src Port: 80, Dst Port: 2145, Seq: 1, Ack: 521, Len: 730

Hypertext Transfer Protocol

MITPIAL 20 OKC'NI

Date: Ned, 21 Apr 2021 16:50:04 ORTIVIN

Server: Apache/2.4.6 (CentOS) OpenSS//1.0.2k-fips PMP/7.4.14 mod_perl/2.0.11 Perl/v5.16.3\r\n

Last-Modified: Ned, 21 Apr 2021 06:59:01 ORTIVIN

ETB: "173-5697942767f"/r\n

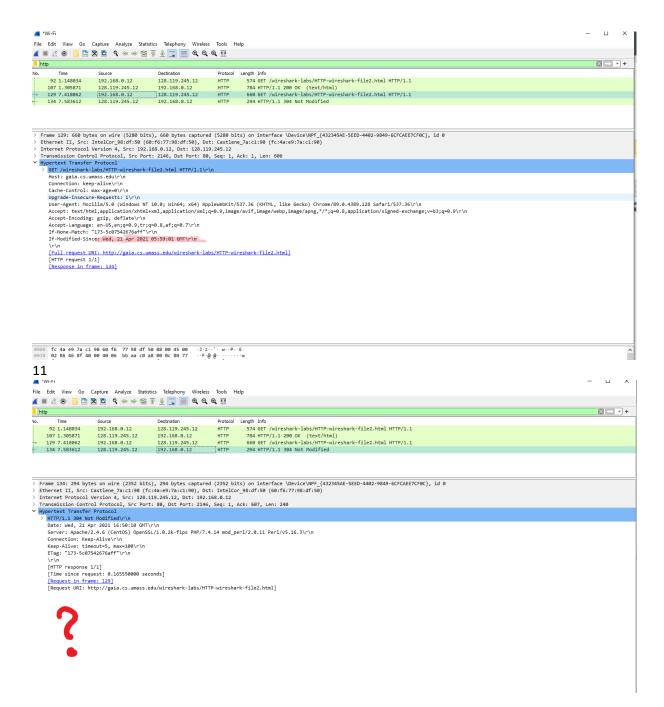
Accept-Amages: Dytes/vin

Accept-Amages: Dytes/vin

Connection: Keep-Alive't timeoutes, maxele0\r\n

Connection: Keep-Alive't timeoutes, maxele0\r\n

Connection: Keep-Alive't ned to the set of the
```



2-8)

No.

2-9)

Yes, it returned the content of the file. Because we can observe it through browser and line based text data.

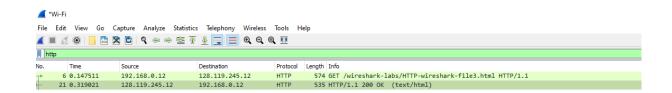
2-10)

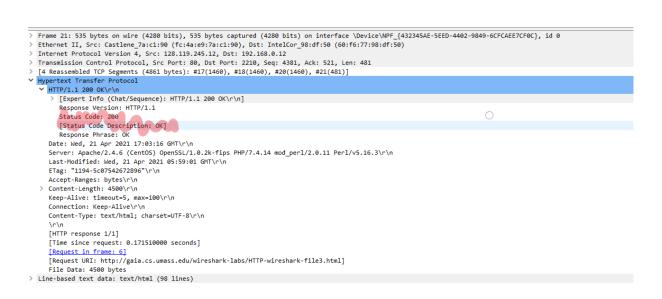
Yes. Wed, 21 Apr 2021 05:59:01 GMT\r\n

2-11)

304 not modified. It did not return the contents of the file because the browser is not modified and we have it in our cache.

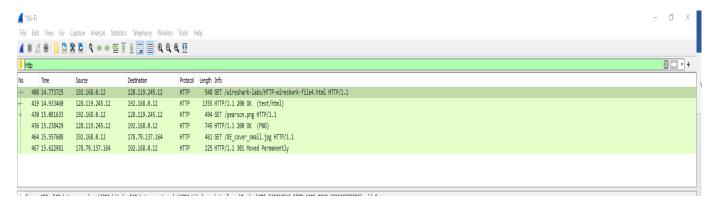
3-)





```
http
 No.
                                                                  Protocol Length Info
          Time
                        Source
                                             Destination
        6 0.147511
                        192.168.0.12
                                             128.119.245.12
                                                                  нттр
                                                                            574 GET /wireshark-labs/HTTP-w
       21 0.319021
                        128.119.245.12
                                             192.168.0.12
                                                                  HTTP
                                                                            535 HTTP/1.1 200 OK (text/htm
 > Frame 21: 535 bytes on wire (4280 bits), 535 bytes captured (4280 bits) on interface \Device\NPF {4323
 > Ethernet II, Src: Castlene 7a:c1:90 (fc:4a:e9:7a:c1:90), Dst: IntelCor 98:df:50 (60:f6:77:98:df:50)
 Internet Protocol Version 4, Src: 128.119.245.12, Dst: 192.168.0.12
 Transmission Control Protocol, Src Port: 80, Dst Port: 2210, Seq: 4381, Ack: 521, Len: 481
      Source Port: 80
      Destination Port: 2210
      [Stream index: 3]
      [TCP Segment Len: 481]
      Sequence Number: 4381
                               (relative sequence number)
      Sequence Number (raw): 2695003360
      [Next Sequence Number: 4862
                                    (relative sequence number)]
                                    (relative ack number)
      Acknowledgment Number: 521
      Acknowledgment number (raw): 3073125840
      0101 .... = Header Length: 20 bytes (5)
    > Flags: 0x018 (PSH, ACK)
      Window: 237
      [Calculated window size: 237]
      [Window size scaling factor: -1 (unknown)]
      Checksum: 0x5073 [unverified]
      [Checksum Status: Unverified]
      Urgent Pointer: 0
    > [SEQ/ACK analysis]
    > [Timestamps]
      TCP payload (481 bytes)
      TCP segment data (481 bytes)
 Y [4 Reassembled TCP Segments (4861 bytes): #17(1460), #18(1460), #20(1460), #21(481)]
      [Frame: 17, payload: 0-1459 (1460 bytes)]
      [Frame: 18, payload: 1460-2919 (1460 bytes)]
      [Frame: 20, payload: 2920-4379 (1460 bytes)]
      [Frame: 21, payload: 4380-4860 (481 bytes)]
     [Segment count: 4]
      [Reassembled TCP length: 4861]
      [Reaccembled TCP Data: 485454502f312e3120323030204f4b0d0a446174653a205765642c2032331204170722032 ]
3-12)
There is 1 HTTP get request sent by me, 6
3-13)
21
3-14)
200, 'OK'
3-15)
4 segments as 1460,1460,1460,481
```

4-)



- 4-16) There are 3 HTTP GET requests sent by my browser with the order of;
- -128.119.245.12
- -128.119.245.12
- -178.79.137.164

4-17)

I think they are downloaded serially because firstly, first image GET requested and responded. After that, second image requested and responded. So their timestamps are different.