

Assignment 4

Computer Networks

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SET 1: The Basic HTTP GET/response interaction

Images for first seven questions and captured packets for simple1.html page

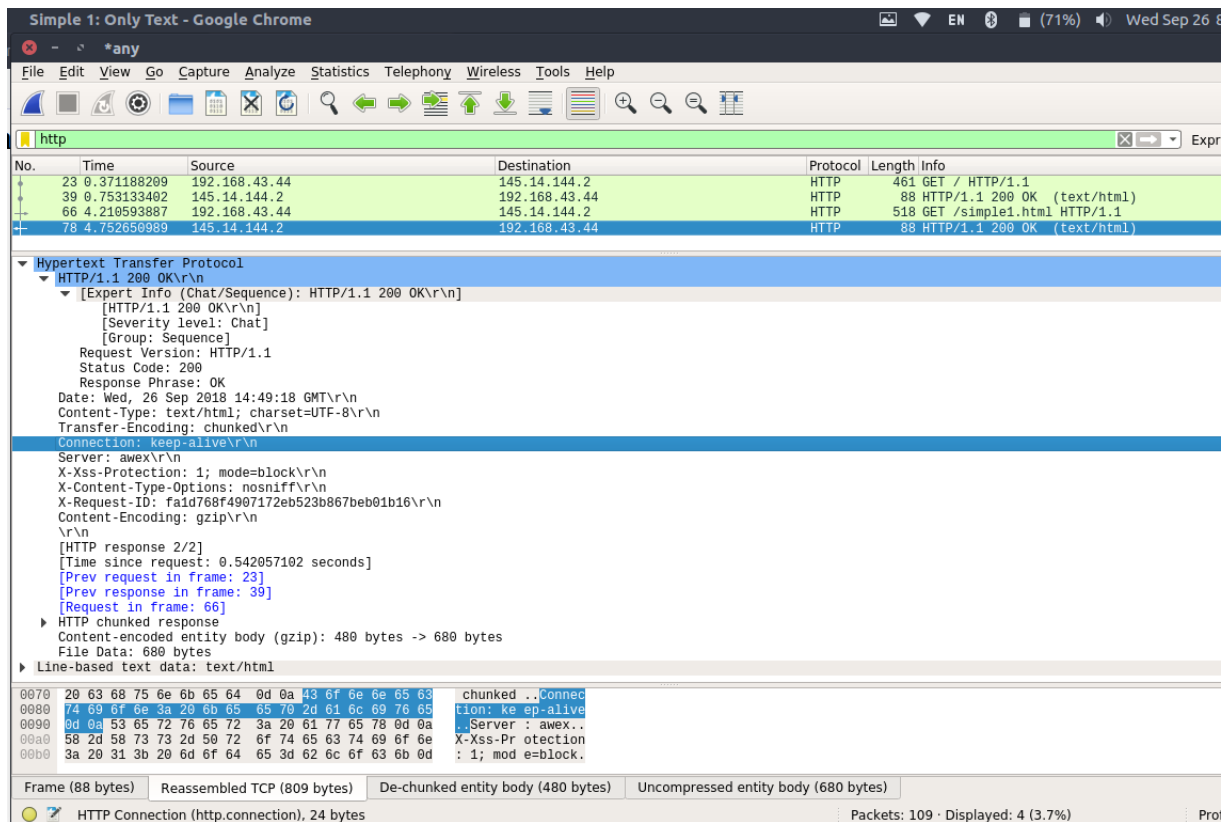
The image shows a Wireshark packet capture of an HTTP GET request. The top pane shows the packet list with three packets. The middle pane shows the details of the selected packet (Frame 66), which is an HTTP GET request for /simple1.html. The bottom pane shows the raw packet data in hexadecimal and ASCII.

No.	Time	Source	Destination	Protocol	Length	Info
23	0.371188209	192.168.43.44	145.14.144.2	HTTP	461	GET / HTTP/1.1
39	0.753133492	145.14.144.2	192.168.43.44	HTTP	88	HTTP/1.1 200 OK (text/html)
66	4.219598397	192.168.43.44	145.14.144.2	HTTP	518	GET /simple1.html HTTP/1.1
78	4.752659989	145.14.144.2	192.168.43.44	HTTP	88	HTTP/1.1 200 OK (text/html)

Frame 66: 518 bytes on wire (4144 bits), 518 bytes captured (4144 bits) on interface 0
Linux cooked capture
Internet Protocol Version 4, Src: 192.168.43.44, Dst: 145.14.144.2
Transmission Control Protocol, Src Port: 42534, Dst Port: 80, Seq: 394, Ack: 1028, Len: 450
Hypertext Transfer Protocol
GET /simple1.html HTTP/1.1
[Expert Info (Chat/Sequence): GET /simple1.html HTTP/1.1
[GET /simple1.html HTTP/1.1
[Severity level: Chat
[Group: Sequence
Request Method: GET
Request URI: /simple1.html
Request Version: HTTP/1.1
Host: cncourse.000webhostapp.com
Connection: keep-alive
Upgrade-Insecure-Requests: 1
DNT: 1
User-Agent: Mozilla/5.0 (X11; Linux x86_64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/69.0.3497.100 Safari/537.36
Accept: text/html,application/xhtml+xml,application/xml;q=0.9,image/webp,image/apng,*/*;q=0.8
Referer: http://cncourse.000webhostapp.com/
Accept-Encoding: gzip, deflate
Accept-Language: en-US,en;q=0.9
[Full request URI: http://cncourse.000webhostapp.com/simple1.html]
[HTTP request 2/2]
[Prev request in frame: 23]
[Response in frame: 78]

0080 0d 0a 43 6f 6e 6e 65 63 74 69 6f 6e 3a 20 6b 65 ..Connection: ke
0090 65 70 2d 61 6c 69 78 65 0d 0a 55 79 67 72 61 64 p-alive ..Upgrad
00a0 65 2d 49 6e 73 65 63 75 72 65 2d 52 65 71 75 65 e-insecu re-Reque
00b0 73 74 73 3a 20 31 0d 0a 44 4e 54 3a 20 31 0d 0a sts: 1.. DNT: 1..
00c0 55 73 65 72 2d 41 67 65 6e 74 3a 20 4d 6f 7a 69 User-Age nt: Mozi
00d0 6c 6c 61 2f 35 2e 30 20 28 58 31 31 3b 20 4c 69 lla/5.0 (X11; Li
00e0 6e 75 78 20 78 38 36 5f 36 34 29 20 41 70 70 6c nux x86_64) Appl

HTTP Connection (http.connection), 24 bytes Packets: 109 · Displayed: 4 (3.7%) Profile:



Question 1 Is your browser running HTTP version 1.0 or 1.1? What version of HTTP is the server running?

Answer My browser is running HTTP version 1.1 . Server is also running HTTP version 1.1 .

Question 2 What languages (if any) does your browser indicate that it can accept to the server?

Answer My browser can accept en-US, en.

Question 3 What is the IP address of your computer? Of the encourseweb server?

Answer IP address of my computer: 192.168.43.44

IP address of server: 145.14.144.2

Question 4 What is the status code returned from the server to your browser?

Answer Status Code: 200

Question 5 When was the HTML file that you are retrieving last modified at the server?

Answer last modified not given in response and can be verified in snapshots.

Question 6 How many bytes of content are being returned to your browser?

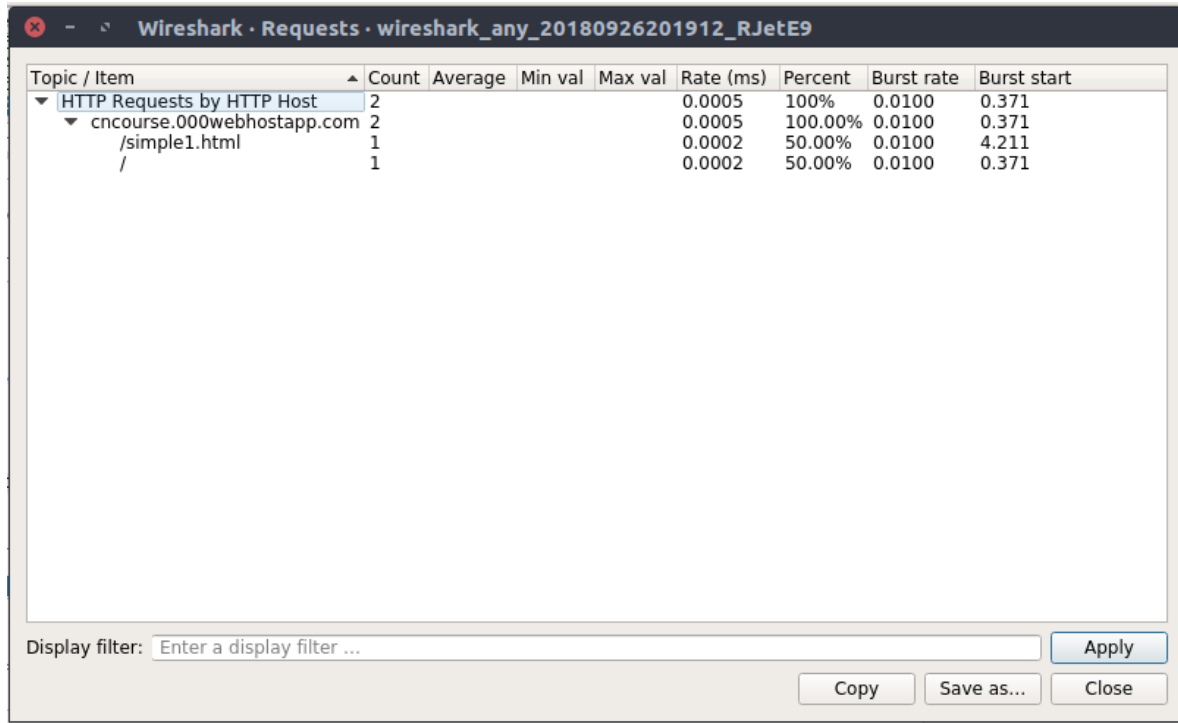
Answer Content length is not given in response to browser but Bytes length of File data is given which is 680 bytes.

Question 7 By inspecting the raw data in the packet content window, do you see any headers within the data that are not displayed in the packet-listing window? If so, name one.

Answer no, I don't see any in the HTTP Message.

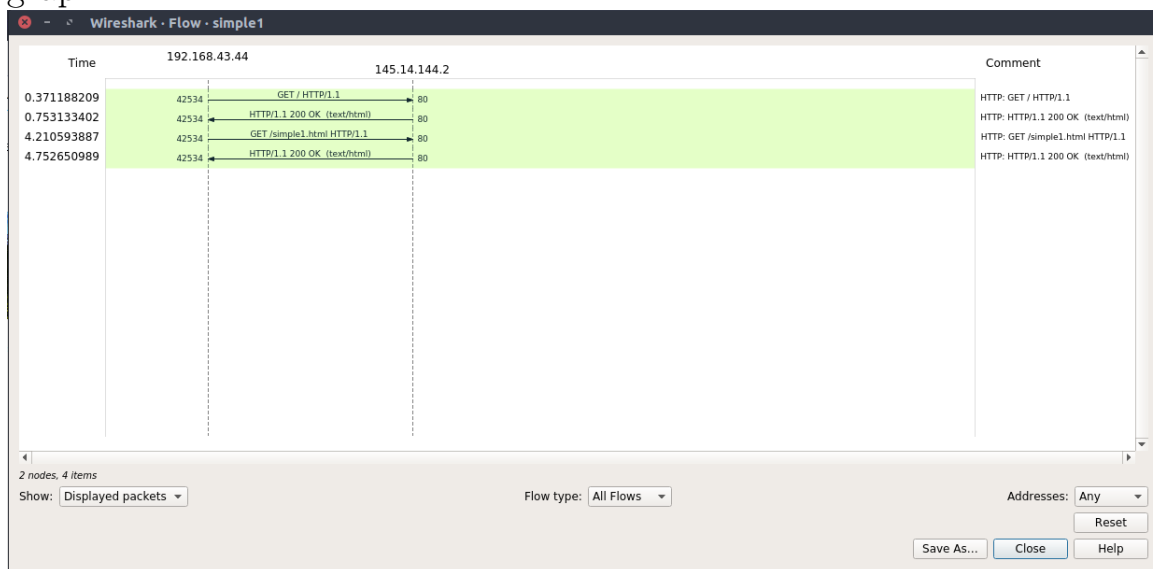
Question 8 Click the following command on Wireshark menu: Statistics->http->Requests. Find out how many requests were sent by your browser and how many did the server respond, with ?

Answer 2 requests were sent by browser one for index page and second for simple1 page and 2 respond received from the server.



Question 9 Find out how to obtain the http traffic flow graph showing the packet exchanges between the client and the server and take a dump of the flow graph for http packets and paste in your answer sheet after all the questions above are answered.

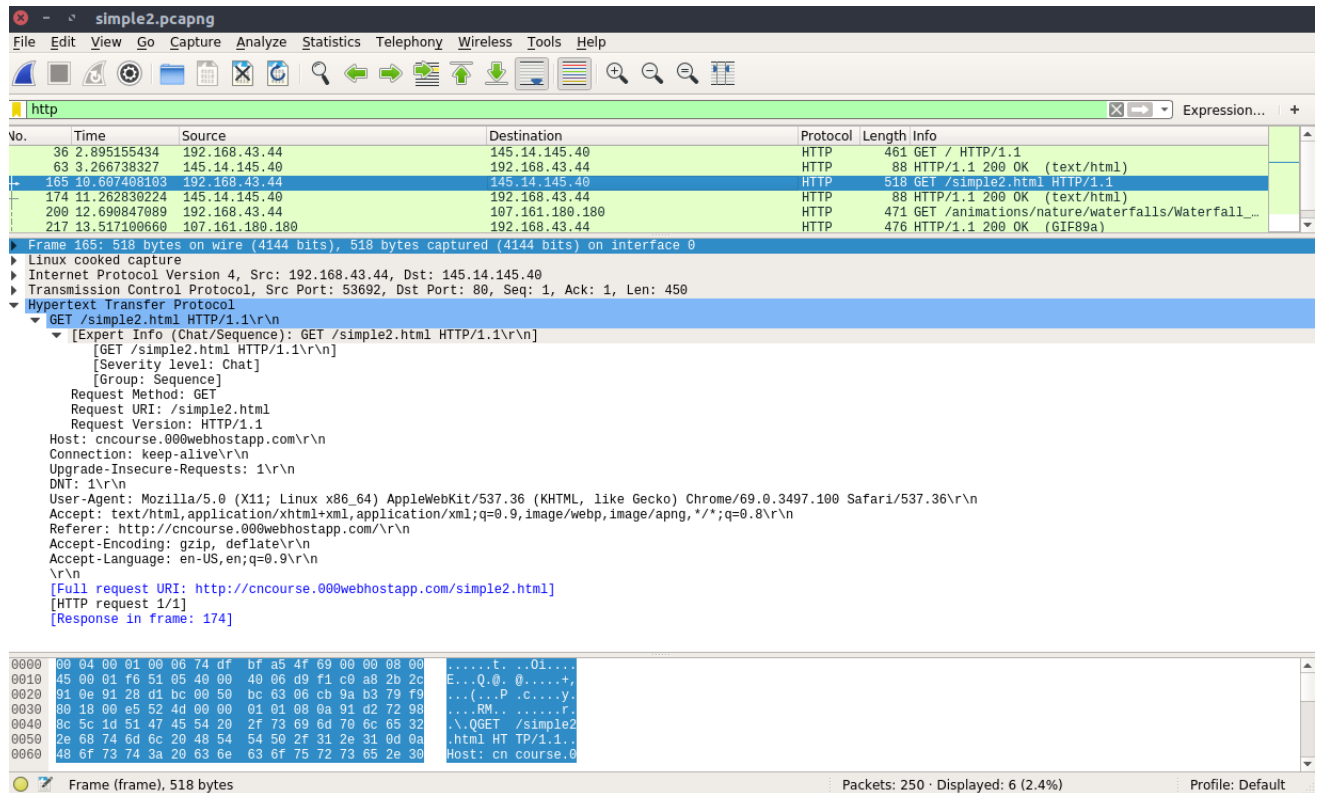
Answer To obtain the flow graph go to Statistics->flow graph. Here is flow graph:



Question 10 Now, enter the following URL to your browser, and answer the questions 5,6, 8 and 9 for the following file : <http://cncourse.000webhostapp.com/simple2.html>

Answer

Images for captured packets for simple2.html page



simple2.pcapng

File Edit View Go Capture Analyze Statistics Telephony Wireless Tools Help

http

No.	Time	Source	Destination	Protocol	Length	Info
36	2.895155434	192.168.43.44	145.14.145.40	HTTP	461	GET / HTTP/1.1
63	3.266738327	145.14.145.40	192.168.43.44	HTTP	88	HTTP/1.1 200 OK (text/html)
165	10.607408103	192.168.43.44	145.14.145.40	HTTP	518	GET /simple2.html HTTP/1.1
174	11.262830224	145.14.145.40	192.168.43.44	HTTP	88	HTTP/1.1 200 OK (text/html)
200	12.690847089	192.168.43.44	107.161.180.180	HTTP	471	GET /animations/nature/waterfalls/Waterfall_... HTTP/1.1
217	13.517100660	107.161.180.180	192.168.43.44	HTTP	476	HTTP/1.1 200 OK (GIF89a)

[4 Reassembled TCP Segments (901 bytes): #168(375), #170(163), #172(343), #174(20)]

Hypertext Transfer Protocol

HTTP/1.1 200 OK\r\n

[Expert Info (Chat/Sequence): HTTP/1.1 200 OK\r\n]

[HTTP/1.1 200 OK\r\n]

[Severity level: Chat]

[Group: Sequence]

Request Version: HTTP/1.1

Status Code: 200

Response Phrase: OK

Date: Wed, 26 Sep 2018 15:15:03 GMT\r\n

Content-Type: text/html; charset=UTF-8\r\n

Transfer-Encoding: chunked\r\n

Connection: keep-alive\r\n

Server: awex\r\n

X-Xss-Protection: 1; mode=block\r\n

X-Content-Type-Options: nosniff\r\n

X-Request-ID: 6ecbd424e74fc7a6477c74516eb1265b\r\n

Content-Encoding: gzip\r\n

\r\n

[HTTP response 1/1]

[Time since request: 0.655422121 seconds]

[Request in frame: 165]

HTTP chunked response

Content-encoded entity body (gzip): 572 bytes -> 868 bytes

File Data: 868 bytes

Line-based text data: text/html

0000 00 00 00 01 00 06 50 8f 4c a3 d2 5b 00 00 08 00P. L..[...
0010 45 28 00 48 59 58 40 00 2e 06 e5 24 91 0e 91 28 E(.HYX@. ...\$.(

0020 c0 a8 2b 2c 00 50 d1 bc 9a b3 7d 6a bc 03 08 8d ..+.P. ...).c.

0030 00 18 00 3b 37 75 00 00 04 01 08 0a 8c 5c 20 af ..7u.

0040 91 d2 72 98 61 0d 0a 03 00 72 1d 1c 20 64 03 00 ..r.a. ...r. d..

Frame (88 bytes) Reassembled TCP (901 bytes) De-chunked entity body (572 bytes) Uncompressed entity body (868 bytes)

Frame (frame), 88 bytes Packets: 250 · Displayed: 6 (2.4%) Profile: Default

simple2.pcapng

File Edit View Go Capture Analyze Statistics Telephony Wireless Tools Help

http

No.	Time	Source	Destination	Protocol	Length	Info
36	2.895155434	192.168.43.44	145.14.145.40	HTTP	461	GET / HTTP/1.1
63	3.266738327	145.14.145.40	192.168.43.44	HTTP	88	HTTP/1.1 200 OK (text/html)
165	10.607408103	192.168.43.44	145.14.145.40	HTTP	518	GET /simple2.html HTTP/1.1
174	11.262830224	145.14.145.40	192.168.43.44	HTTP	88	HTTP/1.1 200 OK (text/html)
200	12.690847089	192.168.43.44	107.161.180.180	HTTP	471	GET /animations/nature/waterfalls/Waterfall_... HTTP/1.1
217	13.517100660	107.161.180.180	192.168.43.44	HTTP	476	HTTP/1.1 200 OK (GIF89a)

Frame 200: 471 bytes on wire (3768 bits), 471 bytes captured (3768 bits) on interface 0

Linux cooked capture

Internet Protocol Version 4, Src: 192.168.43.44, Dst: 107.161.180.180

Transmission Control Protocol, Src Port: 41844, Dst Port: 80, Seq: 1, Ack: 1, Len: 403

Hypertext Transfer Protocol

GET /animations/nature/waterfalls/Waterfall_4.gif HTTP/1.1\r\n

[Expert Info (Chat/Sequence): GET /animations/nature/waterfalls/Waterfall_4.gif HTTP/1.1\r\n]

[GET /animations/nature/waterfalls/Waterfall_4.gif HTTP/1.1\r\n]

[Severity level: Chat]

[Group: Sequence]

Request Method: GET

Request URI: /animations/nature/waterfalls/Waterfall_4.gif

Request Version: HTTP/1.1

Host: gifgifs.com\r\n

Connection: keep-alive\r\n

User-Agent: Mozilla/5.0 (X11; Linux x86_64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/69.0.3497.100 Safari/537.36\r\n

DNT: 1\r\n

Accept: image/webp, image/apng, image/*, */*;q=0.8\r\n

Referer: http://cncourse.000webhostapp.com/simple2.html\r\n

Accept-Encoding: gzip, deflate\r\n

Accept-Language: en-US,en;q=0.9\r\n

\r\n

[Full request URI: http://gifgifs.com/animations/nature/waterfalls/Waterfall_4.gif]

[HTTP request 1/1]

[Response in frame: 217]

0000 00 04 00 01 00 06 74 df bf a5 4f 69 3a 31 08 00t. .01:1..

0010 45 00 01 c7 02 b7 40 00 40 06 2a 50 c0 a8 2b 2c E.....@. @.*P.+

0020 60 a1 b4 b4 a3 74 00 50 a8 2f 5b 10 7c 4a 87 7e k....t.P. ./[.].

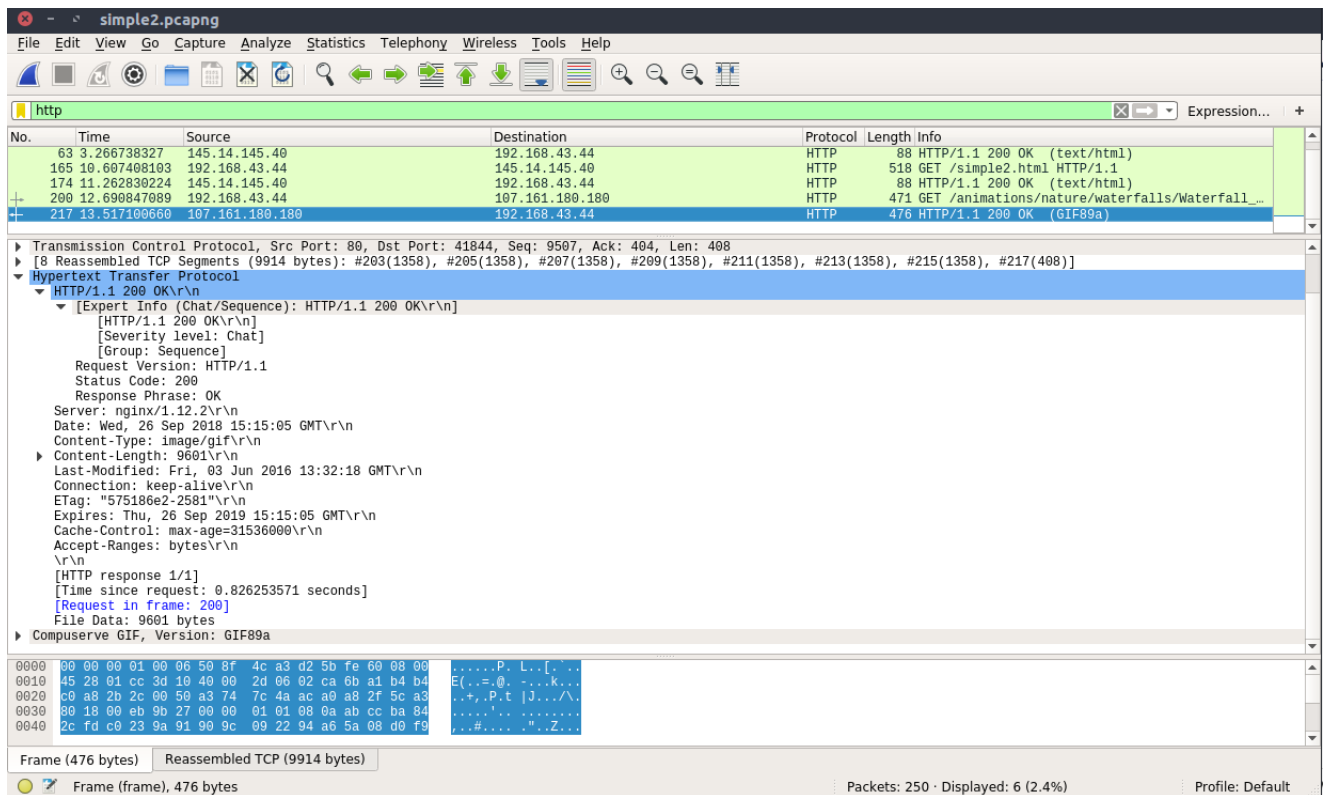
0030 80 18 00 e5 f5 74 00 00 01 01 08 0a 2c fd c0 23t.#

0040 ab cc b6 5f 47 45 54 20 2f 61 6e 69 6d 61 74 69 ..._GET /animati

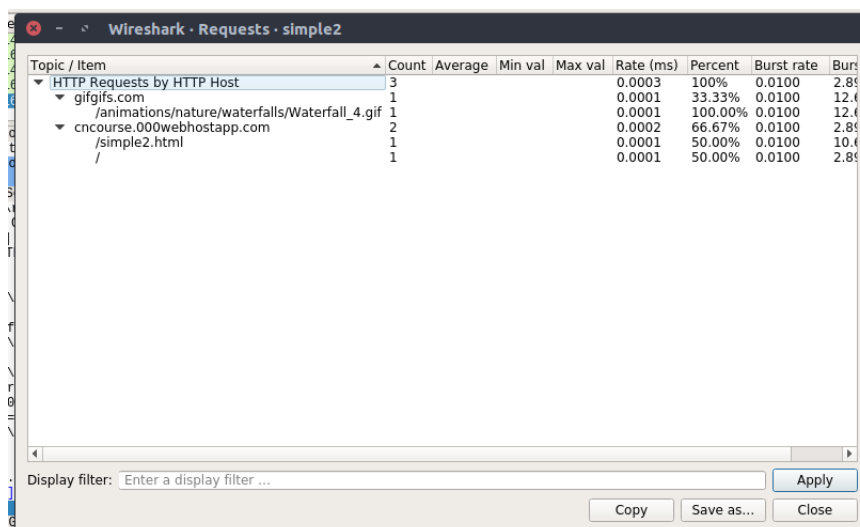
0050 bf 6e 73 2f 6e 61 74 75 72 65 2f 77 61 74 65 72 ons/natu re/water

0060 06 61 6c 6c 73 2f 57 61 74 65 72 66 61 6c 6c 5f falls/Wa terfall

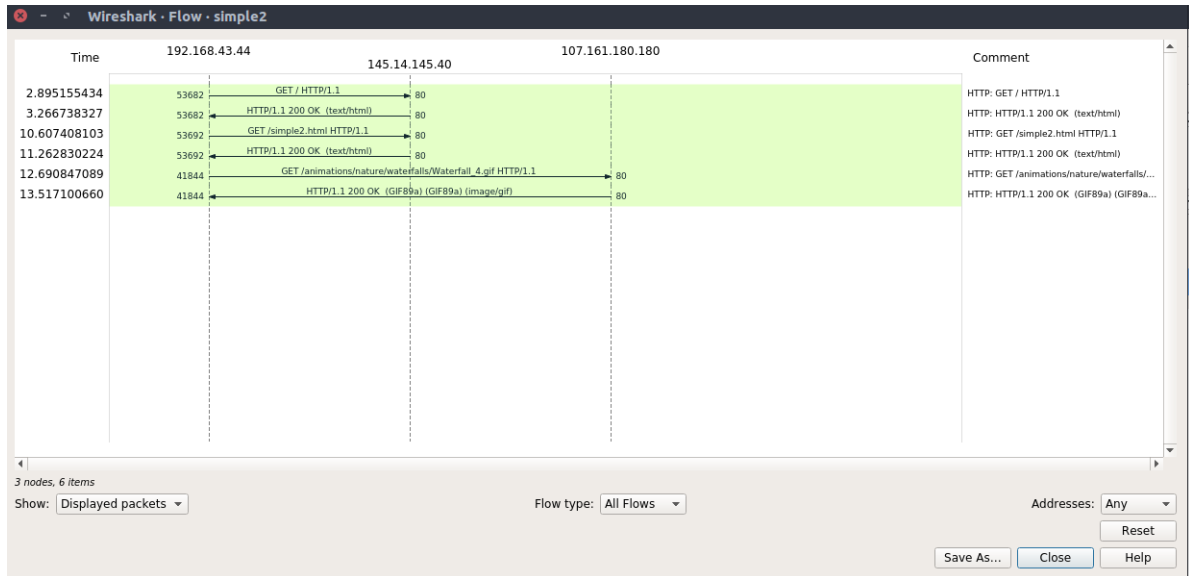
Frame (frame), 471 bytes Packets: 250 · Displayed: 6 (2.4%) Profile: Default



- **Ans 5:** last modified not given in response and can be verified in snapshots.
- **Ans 6:** File Data: 868 bytes(/simple2.html) + 9601 bytes(of gif)
- **Ans 8:** 3 requests(1 for index page, 1 for simple2.html and one for gif)



- **Ans 9:** Here is flow graph:



Question 11 Now, enter the following URL to your browser, and answer the questions 5,6, 8 and 9 for the following file : <http://cncourse.000webhostapp.com/simple3.html>.
Answer

Images for captured packets for simple3.html page

simple3.pcapng

File Edit View Go Capture Analyze Statistics Telephony Wireless Tools Help

http

No.	Time	Source	Destination	Protocol	Length	Info
49	1.814852656	192.168.43.44	145.14.144.94	HTTP	485	GET / HTTP/1.1
50	2.541975529	145.14.144.94	192.168.43.44	HTTP	86	HTTP/1.1 200 OK (text/html)
52	5.496608626	192.168.43.44	145.14.144.94	HTTP	516	GET /simple3.html HTTP/1.1
57	6.197208460	145.14.144.94	192.168.43.44	HTTP	86	HTTP/1.1 200 OK (text/html)
59	6.298223277	192.168.43.44	145.14.144.94	HTTP	528	GET /simple1.html HTTP/1.1
60	6.299156813	192.168.43.44	145.14.144.94	HTTP	528	GET /simple2.html HTTP/1.1
67	6.724130188	145.14.144.94	192.168.43.44	HTTP	86	HTTP/1.1 200 OK (text/html)
76	6.724273836	145.14.144.94	192.168.43.44	HTTP	86	HTTP/1.1 200 OK (text/html)

Hypertext Transfer Protocol

GET /simple3.html HTTP/1.1\r\n

[Expert Info (Chat/Sequence): GET /simple3.html HTTP/1.1\r\n]

[GET /simple3.html HTTP/1.1\r\n]

[Severity level: Chat]

[Group: Sequence]

Request Method: GET

Request URI: /simple3.html

Request Version: HTTP/1.1

Host: cncourse.000webhostapp.com\r\n

Connection: keep-alive\r\n

Upgrade-Insecure-Requests: 1\r\n

DNT: 1\r\n

User-Agent: Mozilla/5.0 (X11; Linux x86_64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/69.0.3497.100 Safari/537.36\r\n

Accept: text/html,application/xhtml+xml,application/xml;q=0.9,image/webp,image/apng,*/*;q=0.8\r\n

Referer: http://cncourse.000webhostapp.com/\r\n

Accept-Encoding: gzip, deflate\r\n

Accept-Language: en-US,en;q=0.9\r\n

\r\n

[Full request URI: http://cncourse.000webhostapp.com/simple3.html]

[HTTP request 2/3]

[Prev request in frame: 40]

[Response in frame: 57]

[Next request in frame: 59]

0040 19 b3 47 45 54 20 2f 73 69 6d 70 6c 65 33 2e 68 ..GET /simple3.h

0050 74 60 6c 20 48 54 54 50 2f 31 2e 31 0d 0a 48 6f ml HTTP /1.1.HO

0060 73 74 3a 20 63 6e 63 6f 75 72 73 65 2e 30 30 30 st: cncourse.000

0070 77 65 62 68 6f 73 74 61 70 70 2e 63 6f 6d 0d 0a webhosta pp.com...

0080 43 6f 6e 6e 65 63 74 69 6f 6e 3a 20 6b 65 65 70 Connecti on: keep

0090 2d 61 6c 69 76 65 0d 0a 55 70 67 72 61 64 65 2d -alive.. Upgrade-

00a0 49 6e 73 65 63 75 72 65 2d 52 65 71 75 65 73 74 Insecure -Request

Text item (text), 28 bytes

Packets: 97 · Displayed: 8 (8.2%)

Profile: Default

simple3.pcapng

File Edit View Go Capture Analyze Statistics Telephony Wireless Tools Help

http

No.	Time	Source	Destination	Protocol	Length	Info
49	1.814852656	192.168.43.44	145.14.144.94	HTTP	485	GET / HTTP/1.1
50	2.541975529	145.14.144.94	192.168.43.44	HTTP	86	HTTP/1.1 200 OK (text/html)
52	5.496608626	192.168.43.44	145.14.144.94	HTTP	516	GET /simple3.html HTTP/1.1
57	6.197208460	145.14.144.94	192.168.43.44	HTTP	86	HTTP/1.1 200 OK (text/html)
59	6.298223277	192.168.43.44	145.14.144.94	HTTP	528	GET /simple1.html HTTP/1.1
60	6.299156813	192.168.43.44	145.14.144.94	HTTP	528	GET /simple2.html HTTP/1.1
67	6.724130188	145.14.144.94	192.168.43.44	HTTP	86	HTTP/1.1 200 OK (text/html)
76	6.724273836	145.14.144.94	192.168.43.44	HTTP	86	HTTP/1.1 200 OK (text/html)

[3 Reassembled TCP Segments (460 bytes): #53(368), #55(72), #57(20)]

Hypertext Transfer Protocol

HTTP/1.1 200 OK\r\n

[Expert Info (Chat/Sequence): HTTP/1.1 200 OK\r\n]

[HTTP/1.1 200 OK\r\n]

[Severity level: Chat]

[Group: Sequence]

Request Version: HTTP/1.1

Status Code: 200

Response Phrase: OK

Date: Wed, 26 Sep 2018 16:03:18 GMT\r\n

Content-Type: text/html; charset=UTF-8\r\n

Transfer-Encoding: chunked\r\n

Connection: keep-alive\r\n

Server: awex\r\n

X-Xss-Protection: 1; mode=block\r\n

X-Content-Type-Options: nosniff\r\n

X-Request-ID: b4d6634ae0d7440cd2e2869c518f2d6e\r\n

Content-Encoding: gzip\r\n

\r\n

[HTTP response 2/3]

[Time since request: 0.700599834 seconds]

[Prev request in frame: 40]

[Prev response in frame: 50]

[Request in frame: 52]

0000 48 54 54 50 2f 31 2e 31 20 32 30 30 20 4f 4b 00 HTTP/1.1 200 OK

0010 0a 44 61 74 65 3a 20 57 65 64 2c 20 32 36 20 53 Date: Wed, 26 S

0020 65 70 20 32 30 31 38 20 31 36 3a 30 33 3a 31 38 ep 2018 16:03:18

0030 20 47 4d 54 0d 0a 43 6f 6e 74 65 6e 74 2d 54 79 GMT..Co ntent-ty

0040 70 65 3a 20 74 65 78 74 2f 68 74 6d 6c 3b 20 63 pe: text /html; c

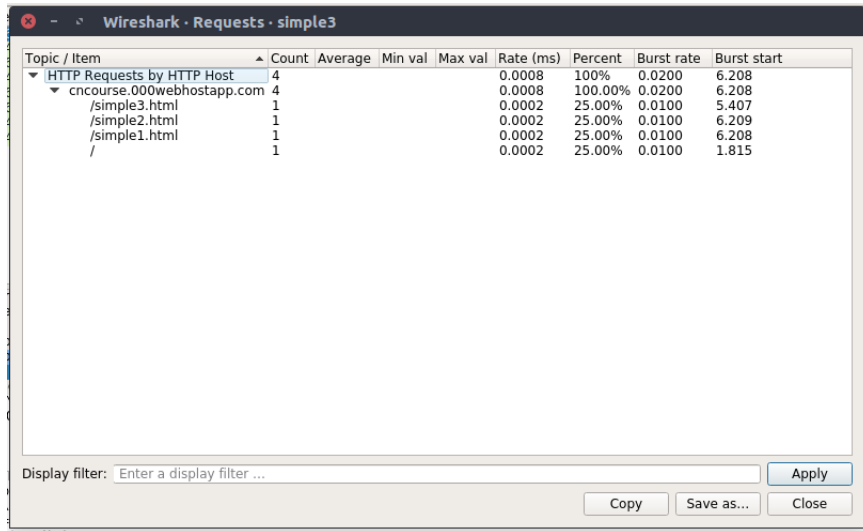
Frame (86 bytes) Reassembled TCP (460 bytes) De-chunked entity body (138 bytes) Uncompressed entity body (174 bytes)

Text item (text), 17 bytes

Packets: 97 · Displayed: 8 (8.2%)

Profile: Default

- **Ans 5:** last modified not given in response and can be verified in snapshots.
- **Ans 6:** File Data: 174 bytes(/simple3.html) + 680 bytes(for /simple1.html) + 868 bytes(for /simple2.html)
- **Ans 8:** 4 requests(1 for index page, 1 for simple2.html,1 for simple1.html and 1 for simple3.html)

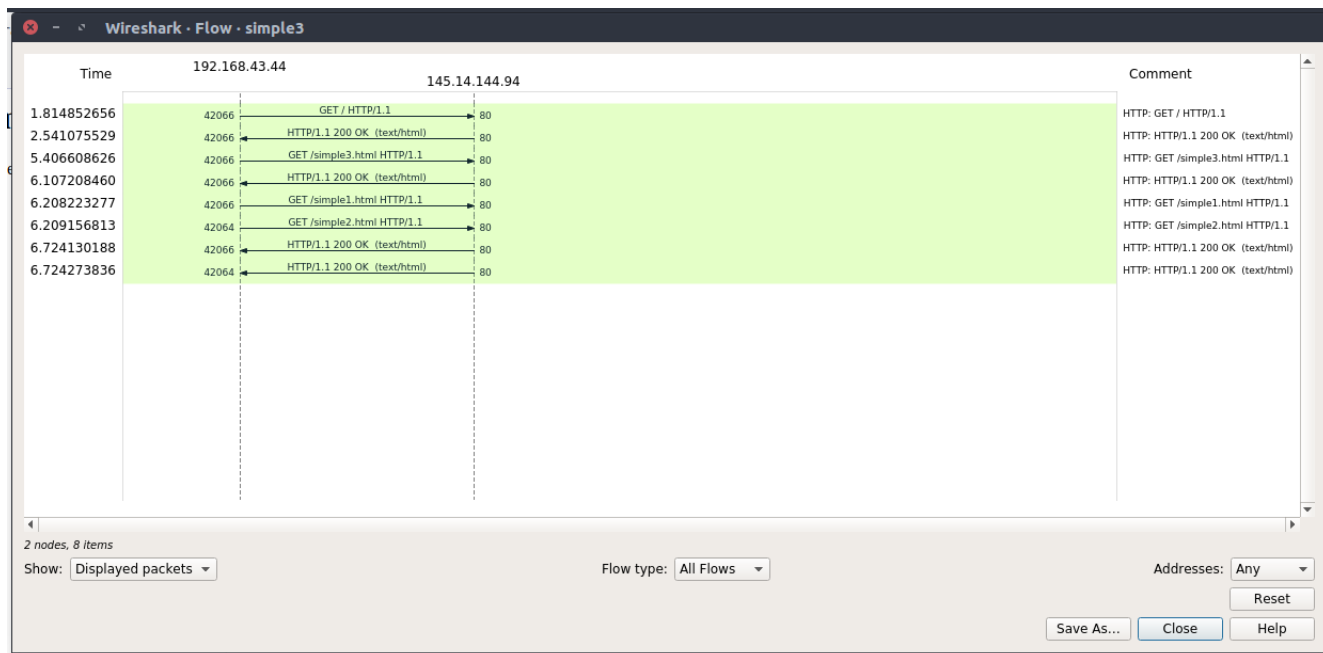


Topic / Item	Count	Average	Min val	Max val	Rate (ms)	Percent	Burst rate	Burst start
HTTP Requests by HTTP Host	4				0.0008	100%	0.0200	6.208
cncourse.000webhostapp.com	4				0.0008	100.00%	0.0200	6.208
/simple3.html	1				0.0002	25.00%	0.0100	5.407
/simple2.html	1				0.0002	25.00%	0.0100	6.209
/simple1.html	1				0.0002	25.00%	0.0100	6.208
/	1				0.0002	25.00%	0.0100	1.815

Display filter: Enter a display filter ...

Copy Save as... Close

- **Ans 9:** Here is flow graph:



Question 12 Now, enter the following URL to your browser, and answer the questions 5,6, 8 and 9 for the following file : *http://cncourse.000webhostapp.com/simple4.html*. Can you tell whether your browser downloaded the ten images serially, or whether they were downloaded from the two web sites in parallel? Explain?

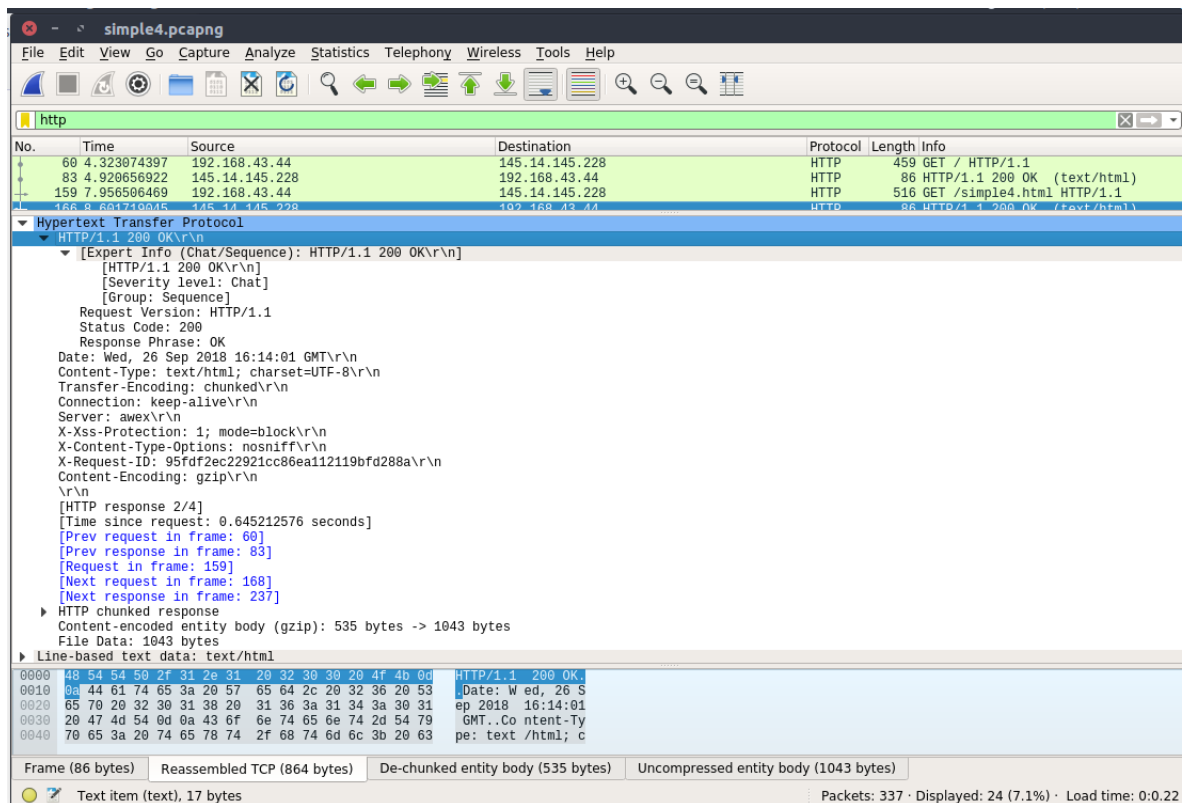
Answer

Images for captured packets for simple4.html page

No.	Time	Source	Destination	Protocol	Length	Info
60	4.323874397	192.168.43.44	145.14.145.228	HTTP	459	GET / HTTP/1.1
83	4.920656922	145.14.145.228	192.168.43.44	HTTP	86	HTTP/1.1 200 OK (text/html)
159	7.956506469	192.168.43.44	145.14.145.228	HTTP	516	GET /simple4.html HTTP/1.1
166	8.601719045	145.14.145.228	192.168.43.44	HTTP	86	HTTP/1.1 200 OK (text/html)
168	8.725228257	192.168.43.44	145.14.145.228	HTTP	445	GET /7.jpg HTTP/1.1
172	8.726770092	192.168.43.44	145.14.145.228	HTTP	445	GET /8.jpg HTTP/1.1
173	8.726823369	192.168.43.44	145.14.145.228	HTTP	445	GET /9.jpg HTTP/1.1
194	9.098977774	192.168.43.44	145.14.145.228	HTTP	445	GET /2.jpg HTTP/1.1
206	9.114343677	145.14.145.228	192.168.43.44	HTTP	78	HTTP/1.1 200 OK (JPEG JFIF image)
215	9.121878890	192.168.43.44	145.14.145.228	HTTP	445	GET /1.jpg HTTP/1.1
224	9.200967967	145.14.145.228	192.168.43.44	HTTP	1370	HTTP/1.1 200 OK (JPEG JFIF image)
228	9.202928691	192.168.43.44	145.14.145.228	HTTP	445	GET /0.jpg HTTP/1.1
229	9.203253888	192.168.43.44	145.14.145.228	HTTP	445	GET /3.jpg HTTP/1.1
237	9.268693180	145.14.145.228	192.168.43.44	HTTP	156	HTTP/1.1 200 OK (JPEG JFIF image)
241	9.270890849	192.168.43.44	145.14.145.228	HTTP	445	GET /4.jpg HTTP/1.1
242	9.271286581	192.168.43.44	145.14.145.228	HTTP	445	GET /5.jpg HTTP/1.1
252	9.626404518	145.14.145.228	192.168.43.44	HTTP	1044	HTTP/1.1 200 OK (JPEG JFIF image)
257	9.627012594	145.14.145.228	192.168.43.44	HTTP	943	HTTP/1.1 200 OK (JPEG JFIF image)
264	9.627945689	145.14.145.228	192.168.43.44	HTTP	1306	HTTP/1.1 200 OK (JPEG JFIF image)
266	9.632134781	192.168.43.44	145.14.145.228	HTTP	445	GET /6.jpg HTTP/1.1
276	9.678977459	145.14.145.228	192.168.43.44	HTTP	1059	HTTP/1.1 200 OK (JPEG JFIF image)
285	9.720630774	145.14.145.228	192.168.43.44	HTTP	164	HTTP/1.1 200 OK (JPEG JFIF image)
295	9.793023165	145.14.145.228	192.168.43.44	HTTP	1262	HTTP/1.1 200 OK (JPEG JFIF image)
303	10.251337923	145.14.145.228	192.168.43.44	HTTP	1035	HTTP/1.1 200 OK (JPEG JFIF image)

Frame 60: 459 bytes on wire (3672 bits), 459 bytes captured (3672 bits) on interface 0	
Ethernet II, Src: LiteonTe_a5:4f:69 (74:df:bf:a5:4f:69), Dst: 50:8f:4c:a3:d2:5b (50:8f:4c:a3:d2:5b)	
Internet Protocol Version 4, Src: 192.168.43.44, Dst: 145.14.145.228	
Transmission Control Protocol, Src Port: 35422, Dst Port: 80, Seq: 1, Ack: 1, Len: 393	
Hypertext Transfer Protocol	
GET / HTTP/1.1\r\n	
[Expert Info (Chat/Sequence): GET / HTTP/1.1\r\n]	
[GET / HTTP/1.1\r\n]	
0040	6f ef 47 45 54 20 2f 20 48 54 50 2f 31 2e 31 00 GET / HTTP/1.1
0050	0d 0a 48 6f 73 74 3a 20 63 6e 63 6f 75 72 73 65 .Host: cncourse
0060	2e 30 30 30 77 65 62 68 6f 73 74 61 70 70 2e 63 .000webh ostapp.c
0070	6f 6d 0d 0a 43 6f 6e 6e 65 63 74 69 6f 6e 3a 20 om..Conn ection:
0080	6b 65 65 70 2d 61 6c 69 76 65 0d 0a 55 70 67 72 keep-ali ve..Upgr
0090	61 64 65 2d 49 6e 73 65 63 75 72 65 2d 52 65 71 ade-Inse cure-Req
00a0	75 65 73 74 73 3a 20 31 0d 0a 55 73 65 72 2d 41 uests: 1 ..User-A

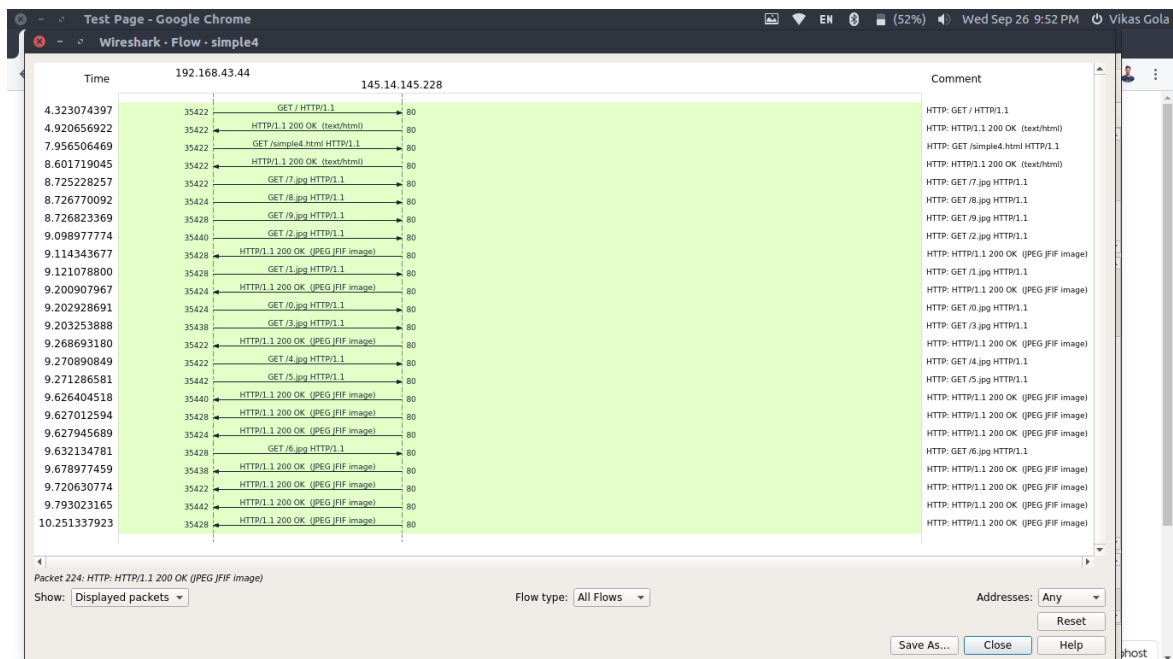
Text item (text), 16 bytes Packets: 337 · Displayed: 24 (7.1%) · Load time: 0:0.22 Profile: Default



- **Ans 5:** last modified not given in response and can be verified in snapshots.
- **Ans 6:** File Data: 1043 bytes(/simple4.html) + (5259+5193+3840+4867+3269+5129 bytes(of 10 images)
- **Ans 8:** 12 requests(1 for index page, 1 for simple4.html,10 for images of 0 to 9)

Topic / Item	Count	Average	Min val	Max val	Rate (ms)	Percent	Burst rate	Burst start
HTTP Requests by HTTP Host	12				0.0020	100%	0.0400	9.203
cncourse.000webhostapp.com	12				0.0020	100.00%	0.0400	9.203
/simple4.html	1				0.0002	8.33%	0.0100	7.957
/9.jpg	1				0.0002	8.33%	0.0100	8.727
/8.jpg	1				0.0002	8.33%	0.0100	8.727
/7.jpg	1				0.0002	8.33%	0.0100	8.725
/6.jpg	1				0.0002	8.33%	0.0100	9.632
/5.jpg	1				0.0002	8.33%	0.0100	9.271
/4.jpg	1				0.0002	8.33%	0.0100	9.271
/3.jpg	1				0.0002	8.33%	0.0100	9.203
/2.jpg	1				0.0002	8.33%	0.0100	9.099
/1.jpg	1				0.0002	8.33%	0.0100	9.121
/0.jpg	1				0.0002	8.33%	0.0100	9.203
/	1				0.0002	8.33%	0.0100	4.323

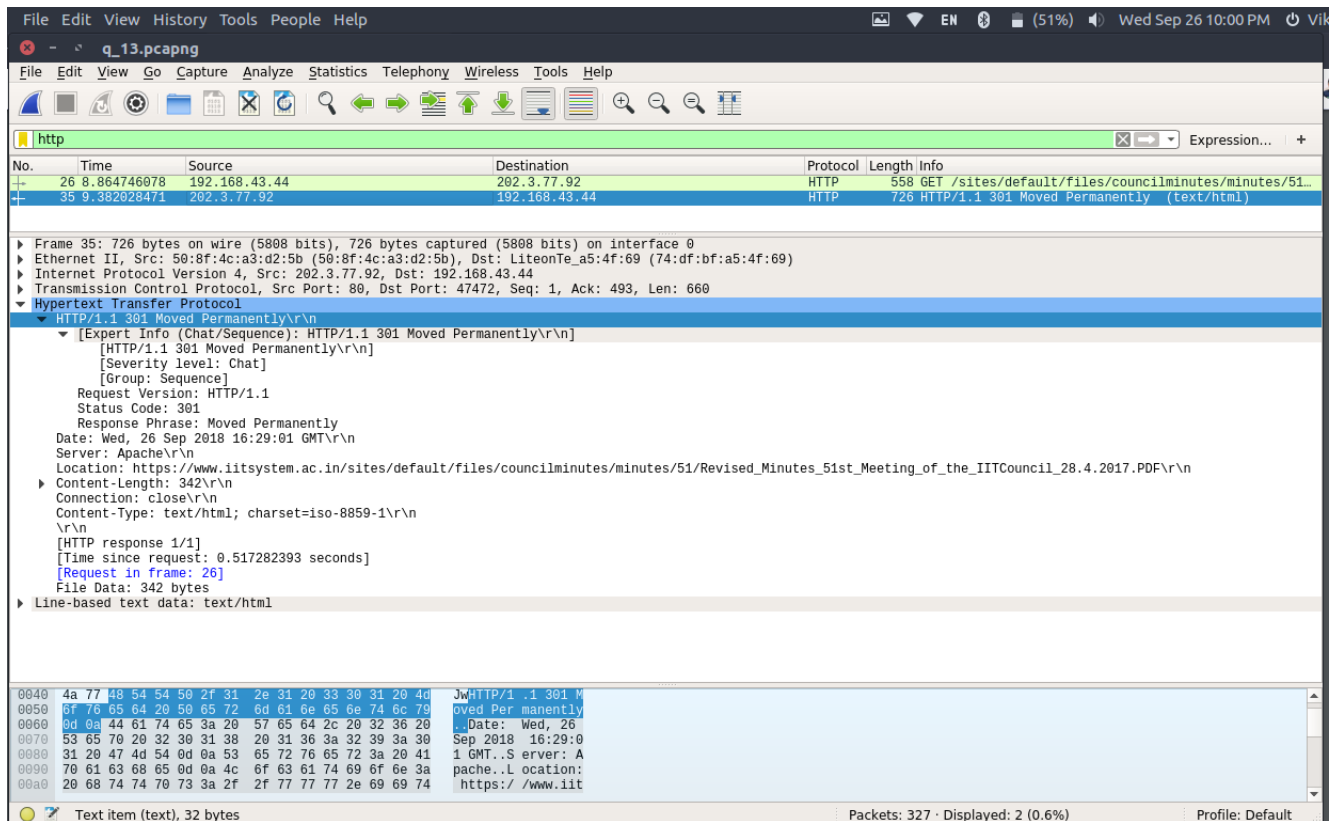
- Ans 9: Here is flow graph:



My browser downloaded the images in parallel as images has been requested continuously without for wait to download or get the first image which have been requested first.

Question 13 Now, enter the following URL to your browser: <http://www.iitsystem.ac.in/>
Find the time required to access this file.

Answer Time Required to access the file = 0.517282393



Question 14 Note the time required to access the files viz. simple1.html, simple2.html, simple3.html also and prepare a table that shows the time required to access each of the files simple1.html, simple2.html, simple3.html, the pdf files in Q13 and the html file about counties in US, in question in section 3 that follows.

Answer

SET 2: The HTTP CONDITIONAL GET/response interaction

Question 1 Inspect the contents of the first HTTP GET request from your browser to the server. Do you see an IF-MODIFIED-SINCE line in the HTTP

GET?

Answer No, there is no IF-MODIFIED-SINCE line in HTTP GET from my browser to the server.

The image shows a Wireshark packet capture of an HTTP GET request and response. The top pane shows a list of packets, with packet 78 selected. The middle pane shows the details of the selected packet, which is an HTTP 200 OK response. The bottom pane shows the raw packet data in hexadecimal and ASCII.

No.	Time	Source	Destination	Protocol	Length	Info
23	0.371188209	192.168.43.44	145.14.144.2	HTTP	461	GET / HTTP/1.1
39	0.753133492	145.14.144.2	192.168.43.44	HTTP	88	HTTP/1.1 200 OK (text/html)
66	4.210593887	192.168.43.44	145.14.144.2	HTTP	518	GET /simple1.html HTTP/1.1
78	4.752659989	145.14.144.2	192.168.43.44	HTTP	88	HTTP/1.1 200 OK (text/html)

Hypertext Transfer Protocol

HTTP/1.1 200 OK\r\n

[Expert Info (Chat/Sequence): HTTP/1.1 200 OK\r\n]

[HTTP/1.1 200 OK\r\n]

[Severity Level: Chat]

[Group: Sequence]

Request Version: HTTP/1.1

Status Code: 200

Response Phrase: OK

Date: Wed, 26 Sep 2018 14:49:18 GMT\r\n

Content-Type: text/html; charset=UTF-8\r\n

Transfer-Encoding: chunked\r\n

Connection: keep-alive\r\n

Server: awex\r\n

X-Xss-Protection: 1; mode=block\r\n

X-Content-Type-Options: nosniff\r\n

X-Request-ID: fa1d768f4907172eb523b867beb01b16\r\n

Content-Encoding: gzip\r\n

\r\n

[HTTP response 2/2]

[Time since request: 0.542057102 seconds]

[Prev request in frame: 23]

[Prev response in frame: 39]

[Request in frame: 66]

► HTTP chunked response

Content-encoded entity body (gzip): 480 bytes -> 680 bytes

File Data: 680 bytes

► Line-based text data: text/html

0070 20 63 68 75 6e 6b 65 64 0d 0a 43 6f 6e 6e 65 63 chunked ..Conne

0080 74 69 6f 6e 3a 20 6b 65 65 70 2d 61 6c 69 76 65 tion: ke ep-alive

0090 0d 0a 53 65 72 76 65 72 3a 20 61 77 65 78 0d 0a ..Server: awex..

00a0 58 2d 58 73 73 2d 50 72 6f 74 65 63 74 69 6f 6e X-Xss-Pr otection

00b0 3a 20 31 3b 20 6d 6f 64 65 3d 62 6c 6f 63 6b 0d : 1; mod e=block.

Frame (88 bytes) Reassembled TCP (809 bytes) De-chunked entity body (480 bytes) Uncompressed entity body (680 bytes)

HTTP Connection (http.connection), 24 bytes Packets: 109 · Displayed: 4 (3.7%)

Question 2 Inspect the contents of the server response. Did the server explicitly return the contents of the file? How can you tell?

Answer Here is text returned in response of get method in the (Line Based text):

Simple 1: Only Text - Google Chrome

File Edit View Go Capture Analyze Statistics Telephony Wireless Tools Help

http

No.	Time	Source	Destination	Protocol	Length	Info
23	0.371188209	192.168.43.44	145.14.144.2	HTTP	461	GET / HTTP/1.1
39	0.753133402	145.14.144.2	192.168.43.44	HTTP	88	HTTP/1.1 200 OK (text/html)
66	4.210593887	192.168.43.44	145.14.144.2	HTTP	518	GET /simple1.html HTTP/1.1
78	4.752650989	145.14.144.2	192.168.43.44	HTTP	88	HTTP/1.1 200 OK (text/html)

Content-Type: text/html; charset=UTF-8\r\n
 Transfer-Encoding: chunked\r\n
 Connection: keep-alive\r\n
 Server: awex\r\n
 X-Xss-Protection: 1; mode=block\r\n
 X-Content-Type-Options: nosniff\r\n
 X-Request-ID: fa1d768f4907172eb523b867beb01b16\r\n
 Content-Encoding: gzip\r\n
 \r\n
 [HTTP response 2/2]
 [Time since request: 0.542057102 seconds]
 [Prev request in frame: 23]
 [Prev response in frame: 39]
 [Request in frame: 66]
 HTTP chunked response
 Content-encoded entity body (gzip): 480 bytes -> 680 bytes
 File Data: 680 bytes

Line-based text data: text/html

```
<html>\r\n
<head>\r\n
<title> Simple 1: Only Text </title>\r\n
</head>\r\n
<body>\r\n
<h1>Computer Network </h1>\r\n
Welcome to Computer Network Course.\r\n
\r\n
[truncated]<div style='text-align: right;position: fixed;z-index:999999;bottom: 0; width: 100%;cursor: pointer;line-height: 0;display:block !important;'>a ti
</html>
```

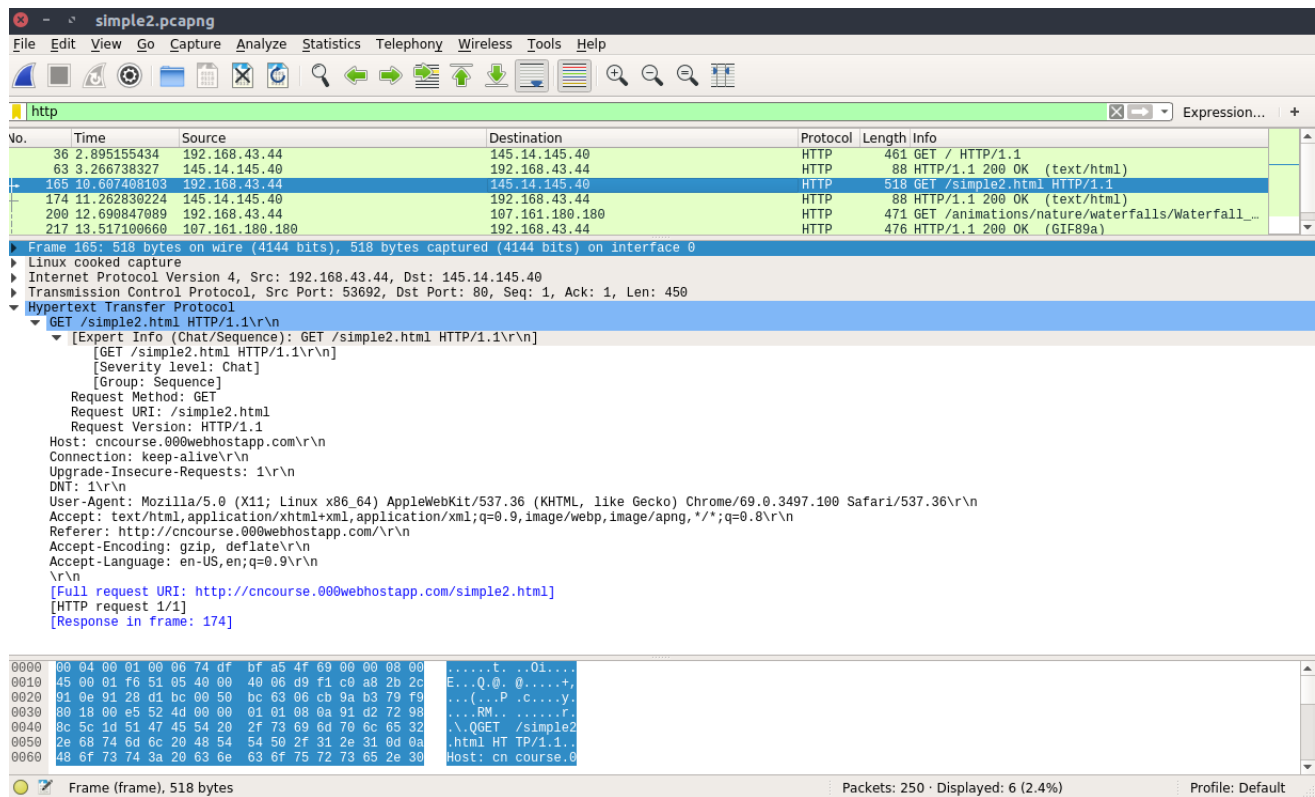
0000 3c 68 74 6d 6c 3e 0d 0a 3c 68 65 61 64 3e 0d 0a <html>.. <head>..
 0010 09 3c 74 69 74 6c 65 3e 20 53 69 6d 79 6c 65 20 <title> Simple
 0020 31 3a 20 4f 6e 6c 79 20 54 65 78 74 20 3c 2f 74 1: Only Text </t
 0030 69 74 6c 65 3e 0d 0a 3c 2f 68 65 61 64 3e 0d 0a title>..< /head>..
 0040 3c 62 6f 64 79 3e 0d 0a 3c 68 31 3e 43 6f 6d 70 <body>.. <h1>Comp

Frame (88 bytes) Reassembled TCP (809 bytes) De-chunked entity body (480 bytes) Uncompressed entity body (680 bytes)

Line-based text data (data-text-lines). 680 bytes Packets: 109 - Displayed: 4 (3.7%) Profile: Default

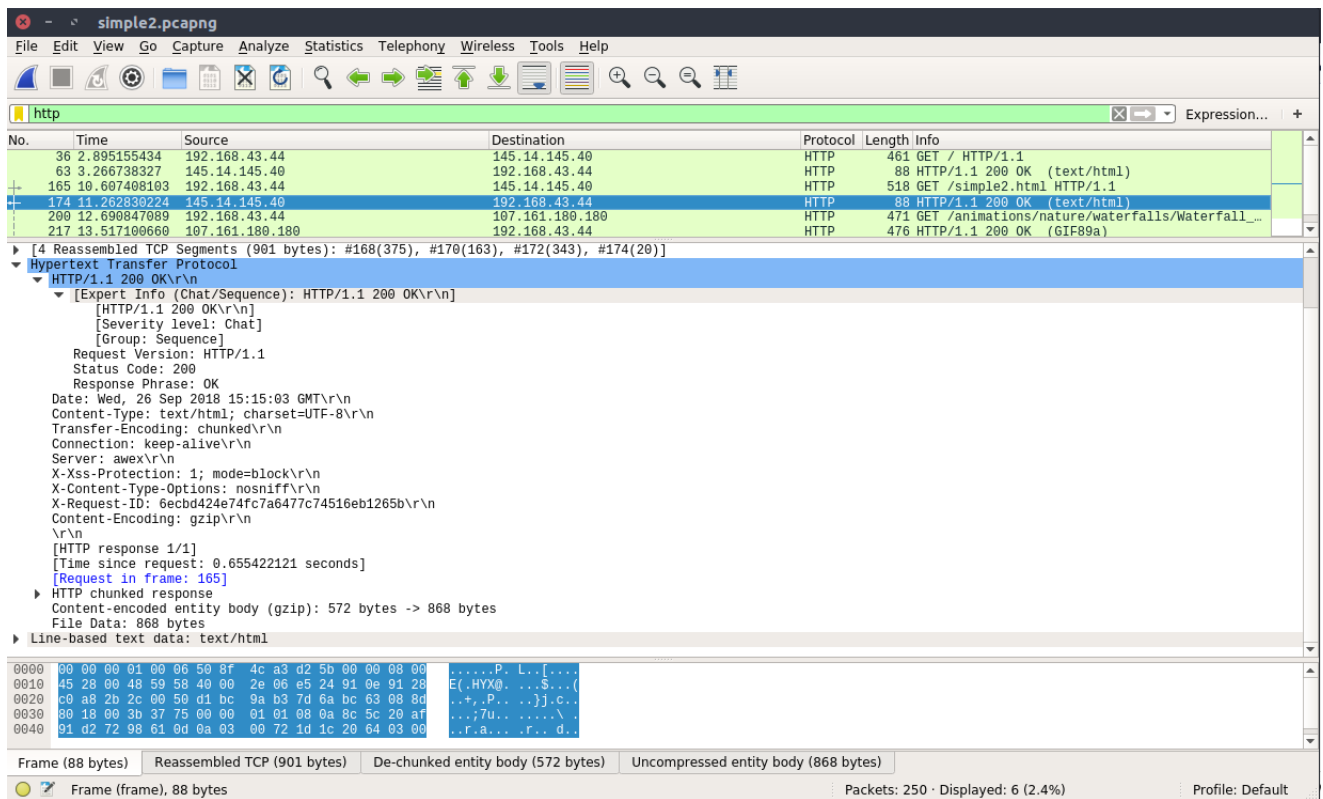
Question 3 Now inspect the contents of the second HTTP GET request from your browser to the server. Do you see an IF-MODIFIED-SINCE: line in the HTTP GET? If so, what information follows the IF-MODIFIED-SINCE: header?

Answer No, Second get request doesn't have IF-MODIFIED-SINCE.



Question 4 What is the HTTP status code and phrase returned from the server in response to this second HTTP GET? Did the server explicitly return the contents of the file? Explain.

Answer HTTP status code is 200 and the content is returned in response from the server.



SET 3: Retrieving Long Documents

Question 1 How many HTTP GET request messages did your browser send?
Which packet number in the trace contains the GET message ?

Answer 6 requests has been send by my browser totally for pdf and html file from which 1 for pdf and 1 for html file. Packet number 31 for 'Large Text' and 421 for 'pdf file'.

Topic / Item	Count	Average	Min val	Max val	Rate (ms)	Percent	Burst rate	Burst start
HTTP Requests by HTTP Host	6				0.0001	100%	0.0100	4.890
cncourse.000webhostapp.com	2				0.0000	33.33%	0.0100	4.890
/largeText.html	1				0.0000	50.00%	0.0100	4.890
/Sec377judgment.pdf	1				0.0000	50.00%	0.0100	29.746
239.255.255.250:1900	4				0.0001	66.67%	0.0100	33.960
*	4				0.0001	100.00%	0.0100	33.960

Display filter: Apply

Copy Save as... Close

Question 2 Which packet number in the trace contains the status code and phrase associated with the response to the HTTP GET request?

Answer Packet number 305 for 'Large Text' (html file) and Packet number 3926 for 'pdf file'.

set_3.pcapng						
File Edit View Go Capture Analyze Statistics Telephony Wireless Tools Help						
http						
No.	Time	Source	Destination	Protocol	Length	Info
31	4.8900800993	192.168.43.44	145.14.144.25	HTTP	518	GET /largeText.html HTTP/1.1
305	9.183884383	145.14.144.25	192.168.43.44	HTTP	878	HTTP/1.1 200 OK (text/html)
421	29.746233195	192.168.43.44	145.14.144.25	HTTP	522	GET /Sec377judgment.pdf HTTP/1.1
3926	50.575412601	145.14.144.25	192.168.43.44	HTTP	1060	HTTP/1.1 200 OK (application/pdf)

<p>Frame 31: 518 bytes on wire (4144 bits), 518 bytes captured (4144 bits) on interface 0</p> <p>Ethernet II, Src: LiteonTe_a5:4f:69 (74:df:bf:a5:4f:69), Dst: 50:8f:4c:a3:d2:5b (50:8f:4c:a3:d2:5b)</p> <p>Internet Protocol Version 4, Src: 192.168.43.44, Dst: 145.14.144.25</p> <p>Transmission Control Protocol, Src Port: 40734, Dst Port: 80, Seq: 1, Ack: 1, Len: 452</p> <p>Hypertext Transfer Protocol</p> <p>GET /largeText.html HTTP/1.1\r\n</p> <p>[Expert Info (Chat/Sequence): GET /largeText.html HTTP/1.1\r\n]</p> <p>[GET /largeText.html HTTP/1.1\r\n]</p> <p>[Severity level: Chat]</p> <p>[Group: Sequence]</p> <p>Request Method: GET</p> <p>Request URI: /largeText.html</p> <p>Request Version: HTTP/1.1</p> <p>Host: cncourse.000webhostapp.com\r\n</p> <p>Connection: keep-alive\r\n</p> <p>Upgrade-Insecure-Requests: 1\r\n</p> <p>User-Agent: Mozilla/5.0 (X11; Linux x86_64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/69.0.3497.100 Safari/537.36\r\n</p> <p>DNT: 1\r\n</p> <p>Accept: text/html,application/xhtml+xml,application/xml;q=0.9,image/webp,image/apng,*/*;q=0.8\r\n</p> <p>Referer: http://cncourse.000webhostapp.com/\r\n</p> <p>Accept-Encoding: gzip, deflate\r\n</p>	<pre> 0050 2e 68 74 6d 6c 20 48 54 54 50 2f 31 2e 31 0d 0a .html HT TP/1.1. 0060 48 6f 73 74 3a 20 63 6e 63 6f 75 72 73 65 2e 30 Host: cn course.0 0070 30 30 77 65 62 68 6f 73 74 61 70 70 2e 63 6f 6d 00webhos tapp.com 0080 0d 0a 43 6f 6e 6e 65 63 74 69 6f 6e 3a 20 6b 65 .Connec tion: ke 0090 65 70 2d 61 6c 69 76 65 0d 0a 55 70 67 72 61 64 ep-alive ..Upgrad 00a0 65 2d 49 6e 73 65 63 75 72 65 2d 52 65 71 75 65 e-Insecu re-Reque 00b0 73 74 73 3a 20 31 0d 0a 55 73 65 72 2d 41 67 65 sts: 1.. User-Age </pre>
---	---

HTTP Request HTTP-Version (http.request.version), 8 bytes

Packets: 4077 · Displayed: 4 (0.1%) · Dropped: 0 (0.0%) · Load time: 0:0.100 · Profile: Default

Question 3 What is the status code and phrase in the response?

Answer Status Code 200 for both html file and pdf file.

set_3.pcapng

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http

No.	Time	Source	Destination	Protocol	Length	Info
31	4.890880093	192.168.43.44	145.14.144.25	HTTP	518	GET /largeText.html HTTP/1.1
305	9.183884383	145.14.144.25	192.168.43.44	HTTP	878	HTTP/1.1 200 OK (text/html)
421	29.746233195	192.168.43.44	145.14.144.25	HTTP	522	GET /Sec377judgment.pdf HTTP/1.1
3926	50.575412601	145.14.144.25	192.168.43.44	HTTP	1060	HTTP/1.1 200 OK (application/pdf)

Frame 305: 878 bytes on wire (7024 bits), 878 bytes captured (7024 bits) on interface 0
 Ethernet II, Src: 50:8f:4c:a3:d2:5b (50:8f:4c:a3:d2:5b), Dst: LiteonTe_a5:4f:69 (74:df:bf:a5:4f:69)
 Internet Protocol Version 4, Src: 145.14.144.25, Dst: 192.168.43.44
 Transmission Control Protocol, Src Port: 80, Dst Port: 40734, Seq: 178637, Ack: 453, Len: 812
 [138 Reassembled TCP Segments (179448 bytes): #39(363), #41(1358), #43(101), #45(1209), #47(894), #49(550), #51(489), #53(425), #55(390), #57(391), #61(1358), #63(1358)]
 Hypertext Transfer Protocol
 HTTP/1.1 200 OK\r\n
 [Expert Info (Chat/Sequence): HTTP/1.1 200 OK\r\n]
 [HTTP/1.1 200 OK\r\n]
 [Severity level: Chat]
 [Group: Sequence]
 Request Version: HTTP/1.1
 Status Code: 200
 Response Phrase: OK
 Date: Wed, 26 Sep 2018 17:45:04 GMT\r\n
 Content-Type: text/html; charset=UTF-8\r\n
 Transfer-Encoding: chunked\r\n
 Connection: keep-alive\r\n
 Server: awex\r\n
 V-Ver Protection: 1: mode=block\r\n

00000000 48 54 54 50 2f 31 2e 31 20 32 30 30 20 4f 4b 0d HTTP/1.1 200 OK.
 00000010 0a 44 61 74 65 3a 20 57 65 64 2c 20 32 36 20 53 .Date: W ed, 26 S
 00000020 65 70 20 32 30 31 38 20 31 37 3a 34 35 3a 30 34 ep 2018 17:45:04
 00000030 20 47 4d 54 0d 0a 43 6f 6e 74 65 6e 74 2d 54 79 GMT..Co ntent-Ty
 00000040 70 65 3a 20 74 65 78 74 2f 68 74 6d 6c 3b 20 63 pe: text /html; c

Frame (878 bytes) Reassembled TCP (179448 bytes) De-chunked entity body (176253 bytes) Uncompressed entity body (1682898 bytes)

HTTP Request HTTP-Version (http.request.version), 8 bytes Packets: 4077 · Displayed: 4 (0.1%) · Dropped: 0 (0.0%) · Load time: 0:0.100 Profile: Default

set_3.pcapng

File Edit View Go Capture Analyze Statistics Telephony Wireless Tools Help

http

No.	Time	Source	Destination	Protocol	Length	Info
31	4.890880093	192.168.43.44	145.14.144.25	HTTP	518	GET /largeText.html HTTP/1.1
305	9.183884383	145.14.144.25	192.168.43.44	HTTP	878	HTTP/1.1 200 OK (text/html)
421	29.746233195	192.168.43.44	145.14.144.25	HTTP	522	GET /Sec377judgment.pdf HTTP/1.1
3926	50.575412601	145.14.144.25	192.168.43.44	HTTP	1060	HTTP/1.1 200 OK (application/pdf)

Frame 3926: 1060 bytes on wire (8480 bits), 1060 bytes captured (8480 bits) on interface 0
 Ethernet II, Src: 50:8f:4c:a3:d2:5b (50:8f:4c:a3:d2:5b), Dst: LiteonTe_a5:4f:69 (74:df:bf:a5:4f:69)
 Internet Protocol Version 4, Src: 145.14.144.25, Dst: 192.168.43.44
 Transmission Control Protocol, Src Port: 80, Dst Port: 40740, Seq: 2794012, Ack: 457, Len: 994
 [2061 Reassembled TCP Segments (2795005 bytes): #427(1358), #429(1358), #431(1358), #433(139), #435(1358), #437(1358), #439(1358), #441(22), #443(1358), #445(1358), #447(1358), #449(1358), #451(1358), #453(1358), #455(1358), #457(1358), #459(1358), #461(1358), #463(1358), #465(1358), #467(1358), #469(1358), #471(1358), #473(1358), #475(1358), #477(1358), #479(1358), #481(1358), #483(1358), #485(1358), #487(1358), #489(1358), #491(1358), #493(1358), #495(1358), #497(1358), #499(1358), #501(1358), #503(1358), #505(1358), #507(1358), #509(1358), #511(1358), #513(1358), #515(1358), #517(1358), #519(1358), #521(1358), #523(1358), #525(1358), #527(1358), #529(1358), #531(1358), #533(1358), #535(1358), #537(1358), #539(1358), #541(1358), #543(1358), #545(1358), #547(1358), #549(1358), #551(1358), #553(1358), #555(1358), #557(1358), #559(1358), #561(1358), #563(1358), #565(1358), #567(1358), #569(1358), #571(1358), #573(1358), #575(1358), #577(1358), #579(1358), #581(1358), #583(1358), #585(1358), #587(1358), #589(1358), #591(1358), #593(1358), #595(1358), #597(1358), #599(1358), #601(1358), #603(1358), #605(1358), #607(1358), #609(1358), #611(1358), #613(1358), #615(1358), #617(1358), #619(1358), #621(1358), #623(1358), #625(1358), #627(1358), #629(1358), #631(1358), #633(1358), #635(1358), #637(1358), #639(1358), #641(1358), #643(1358), #645(1358), #647(1358), #649(1358), #651(1358), #653(1358), #655(1358), #657(1358), #659(1358), #661(1358), #663(1358), #665(1358), #667(1358), #669(1358), #671(1358), #673(1358), #675(1358), #677(1358), #679(1358), #681(1358), #683(1358), #685(1358), #687(1358), #689(1358), #691(1358), #693(1358), #695(1358), #697(1358), #699(1358), #701(1358), #703(1358), #705(1358), #707(1358), #709(1358), #711(1358), #713(1358), #715(1358), #717(1358), #719(1358), #721(1358), #723(1358), #725(1358), #727(1358), #729(1358), #731(1358), #733(1358), #735(1358), #737(1358), #739(1358), #741(1358), #743(1358), #745(1358), #747(1358), #749(1358), #751(1358), #753(1358), #755(1358), #757(1358), #759(1358), #761(1358), #763(1358), #765(1358), #767(1358), #769(1358), #771(1358), #773(1358), #775(1358), #777(1358), #779(1358), #781(1358), #783(1358), #785(1358), #787(1358), #789(1358), #791(1358), #793(1358), #795(1358), #797(1358), #799(1358), #801(1358), #803(1358), #805(1358), #807(1358), #809(1358), #811(1358), #813(1358), #815(1358), #817(1358), #819(1358), #821(1358), #823(1358), #825(1358), #827(1358), #829(1358), #831(1358), #833(1358), #835(1358), #837(1358), #839(1358), #841(1358), #843(1358), #845(1358), #847(1358), #849(1358), #851(1358), #853(1358), #855(1358), #857(1358), #859(1358), #861(1358), #863(1358), #865(1358), #867(1358), #869(1358), #871(1358), #873(1358), #875(1358), #877(1358), #879(1358), #881(1358), #883(1358), #885(1358), #887(1358), #889(1358), #891(1358), #893(1358), #895(1358), #897(1358), #899(1358), #901(1358), #903(1358), #905(1358), #907(1358), #909(1358), #911(1358), #913(1358), #915(1358), #917(1358), #919(1358), #921(1358), #923(1358), #925(1358), #927(1358), #929(1358), #931(1358), #933(1358), #935(1358), #937(1358), #939(1358), #941(1358), #943(1358), #945(1358), #947(1358), #949(1358), #951(1358), #953(1358), #955(1358), #957(1358), #959(1358), #961(1358), #963(1358), #965(1358), #967(1358), #969(1358), #971(1358), #973(1358), #975(1358), #977(1358), #979(1358), #981(1358), #983(1358), #985(1358), #987(1358), #989(1358), #991(1358), #993(1358), #995(1358), #997(1358), #999(1358)]
 Hypertext Transfer Protocol
 HTTP/1.1 200 OK\r\n
 [Expert Info (Chat/Sequence): HTTP/1.1 200 OK\r\n]
 [HTTP/1.1 200 OK\r\n]
 [Severity level: Chat]
 [Group: Sequence]
 Request Version: HTTP/1.1
 Status Code: 200
 Response Phrase: OK
 Date: Wed, 26 Sep 2018 17:45:29 GMT\r\n
 Content-Type: application/pdf\r\n
 Content-Length: 2794673\r\n
 Connection: keep-alive\r\n
 Last-Modified: Sun, 23 Sep 2018 19:35:27 GMT\r\n
 Accept-Ranges: bytes\r\n

00000000 48 54 54 50 2f 31 2e 31 20 32 30 30 20 4f 4b 0d HTTP/1.1 200 OK.
 00000010 0a 44 61 74 65 3a 20 57 65 64 2c 20 32 36 20 53 .Date: W ed, 26 S
 00000020 65 70 20 32 30 31 38 20 31 37 3a 34 35 3a 32 39 ep 2018 17:45:29
 00000030 20 47 4d 54 0d 0a 43 6f 6e 74 65 6e 74 2d 54 79 GMT..Co ntent-Ty
 00000040 70 65 3a 20 61 70 70 6c 69 63 61 74 69 6f 6e 2f pe: appl ication/

Frame (1060 bytes) Reassembled TCP (2795005 bytes)

HTTP Request HTTP-Version (http.request.version), 8 bytes Packets: 4077 · Displayed: 4 (0.1%) · Dropped: 0 (0.0%) · Load time: 0:0.100 Profile: Default

Question 4 How many data-containing TCP segments were needed to carry the single HTTP response and the text of the file ?

Answer 138 TCP segments for html file and 2061 TCP segments for pdf file. Snapshots in last questions.

SET 4 - HTML Documents with CGI Script

Question 1 What is the method used in your HTTP message ? How many HTTP request messages did your browser send? To which Internet addresses were these requests sent?

Answer POST method is used in HTTP message. 2 requests has been send by browser. To <http://cncourse.000webhostapp.com/simple5.php>.

Dynamic - Google Chrome

simple5.pcapng

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http

No.	Time	Source	Destination	Protocol	Length	Info
107	3.401715989	192.168.43.44	145.14.144.102	HTTP	681	GET /simple5.php HTTP/1.1
136	3.781147240	145.14.144.102	192.168.43.44	HTTP	86	HTTP/1.1 200 OK (text/html)
258	15.403469161	192.168.43.44	145.14.144.102	HTTP	953	POST /simple5.php HTTP/1.1 (application/x-www-form-urlencoded)
269	16.030303074	145.14.144.102	192.168.43.44	HTTP	86	HTTP/1.1 200 OK (text/html)

Frame 107: 681 bytes on wire (5448 bits), 681 bytes captured (5448 bits) on interface 0

Ethernet II, Src: LiteonTe_a5:4f:69 (74:df:bf:a5:4f:69), Dst: 50:8f:4c:a3:d2:5b (50:8f:4c:a3:d2:5b)

Internet Protocol Version 4, Src: 192.168.43.44, Dst: 145.14.144.102

Transmission Control Protocol, Src Port: 36120, Dst Port: 80, Seq: 1, Ack: 1, Len: 615

Hypertext Transfer Protocol

GET /simple5.php HTTP/1.1\r\n

[Expert Info (Chat/Sequence): GET /simple5.php HTTP/1.1\r\n]

[GET /simple5.php HTTP/1.1\r\n]

[Severity level: Chat]

[Group: Sequence]

Request Method: GET

Request URI: /simple5.php

Request Version: HTTP/1.1

Host: cncourse.000webhostapp.com\r\n

Connection: keep-alive\r\n

Upgrade-Insecure-Requests: 1\r\n

User-Agent: Mozilla/5.0 (X11; Linux x86_64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/69.0.3497.100 Safari/537.36\r\n

DNT: 1\r\n

Accept: text/html,application/xhtml+xml,application/xml;q=0.9,image/webp,image/apng,*/*;q=0.8\r\n

Accept-Encoding: gzip, deflate\r\n

0050 68 70 20 48 54 54 50 2f 31 2e 31 0d 0a 48 6f 73 hp HTTP/ 1.1..Hos

0060 74 3a 20 63 6e 63 6f 75 72 73 65 2e 30 30 30 77 t: cncou rse.000w

0070 65 62 68 6f 73 74 61 70 70 2e 63 6f 6d 0d 0a 43 ebhostap p.com..C

0080 6f 6e 6e 65 63 74 69 6f 6e 3a 20 6b 65 65 70 2d onnectio n: keep-

0090 61 6c 69 76 65 0d 0a 55 70 67 72 61 64 65 2d 49 alive..U pgrade-I

00a0 6e 73 65 63 75 72 65 2d 52 65 71 75 65 73 74 73 nsecure- Requests

00b0 3a 20 31 0d 0a 55 73 65 72 2d 41 67 65 6e 74 3a : 1..Use r-Agent:

simple5

Packets: 287 · Displayed: 4 (1.4%)

Profile: Default

Wireshark · Requests · simple5

Topic / Item	Count	Average	Min val	Max val	Rate (ms)	Percent	Burst rate	Burst start
HTTP Requests by HTTP Host	2				0.0002	100%	0.0100	3.402
cncourse.000webhostapp.com	2				0.0002	100.00%	0.0100	3.402
/simple5.php	2				0.0002	100.00%	0.0100	3.402

Display filter:

0 2f 31 2e 31 0d 0a 48 6f php HTTP /1.1..Ho