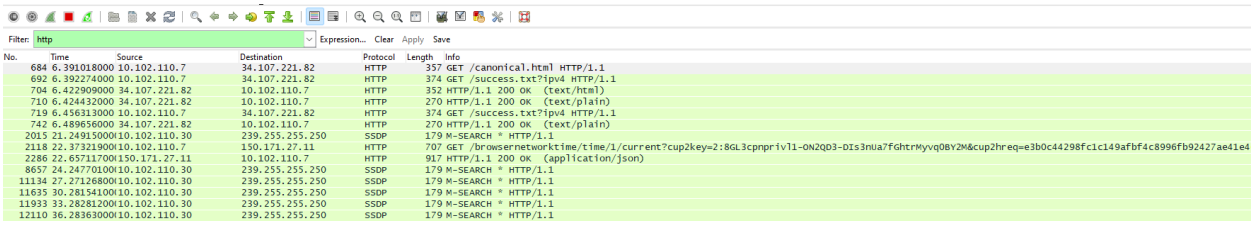
Lab 9

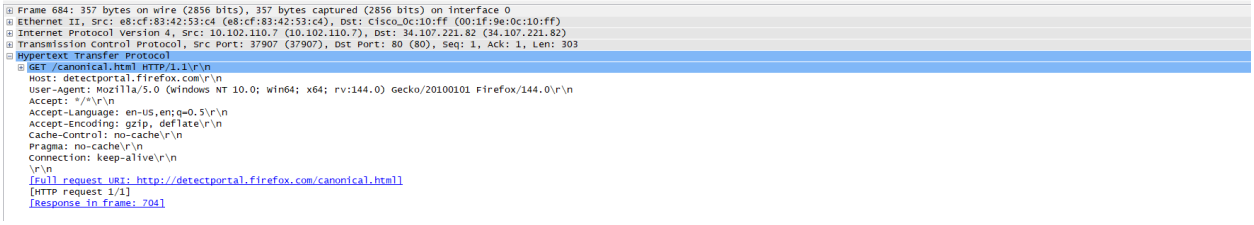
Is your browser running HTTP version 1.0 or 1.1? What version of HTTP is the server running?

Both Browser running on 1.0



Filter: http

No.	Time	Source	Destination	Protocol	Length	Info
684	6.391018000	10.102.110.7	34.107.221.82	HTTP	357	GET /canonical.html HTTP/1.1
692	6.392274000	10.102.110.7	34.107.221.82	HTTP	374	GET /success.txt?ipv4 HTTP/1.1
704	6.422909000	34.107.221.82	10.102.110.7	HTTP	352	HTTP/1.1 200 OK (text/html)
710	6.424432000	34.107.221.82	10.102.110.7	HTTP	270	HTTP/1.1 200 OK (text/plain)
719	6.456313000	10.102.110.7	34.107.221.82	HTTP	374	GET /success.txt?ipv4 HTTP/1.1
742	6.489656000	34.107.221.82	10.102.110.7	HTTP	270	HTTP/1.1 200 OK (text/plain)
2015	21.249150000	10.102.110.30	239.255.255.250	SSDP	179	M-SEARCH * HTTP/1.1
2118	22.373219000	10.102.110.7	150.171.27.11	HTTP	707	GET /browsernetworktime/time/1/current?cup2key=2:8GL3cpnpriv11-ON2QD3-DIs3nUa7fGhtrMyvq0BY2M&cup2hreq=e3b0c44298fc1c149afbf4c8996fb92427ae41e4
2286	22.657117000	150.171.27.11	10.102.110.7	HTTP	917	HTTP/1.1 200 OK (application/json)
8657	24.247701000	10.102.110.30	239.255.255.250	SSDP	179	M-SEARCH * HTTP/1.1
11134	27.271268000	10.102.110.30	239.255.255.250	SSDP	179	M-SEARCH * HTTP/1.1
11635	30.281541000	10.102.110.30	239.255.255.250	SSDP	179	M-SEARCH * HTTP/1.1
11933	33.282812000	10.102.110.30	239.255.255.250	SSDP	179	M-SEARCH * HTTP/1.1
12110	36.283630000	10.102.110.30	239.255.255.250	SSDP	179	M-SEARCH * HTTP/1.1

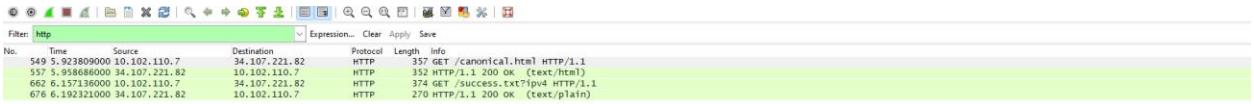


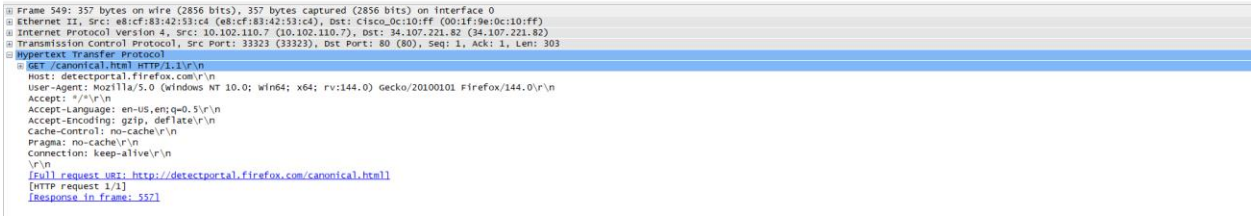
```
⊞ Frame 684: 357 bytes on wire (2856 bits), 357 bytes captured (2856 bits) on interface 0
⊞ Ethernet II, Src: e8:cf:83:42:53:c4 (e8:cf:83:42:53:c4), Dst: Cisco_0c:10:ff (00:1f:9e:0c:10:ff)
⊞ Internet Protocol Version 4, Src: 10.102.110.7 (10.102.110.7), Dst: 34.107.221.82 (34.107.221.82)
⊞ Transmission Control Protocol, Src Port: 37907 (37907), Dst Port: 80 (80), Seq: 1, Ack: 1, Len: 303
⊟ Hypertext Transfer Protocol
  ⊞ GET /canonical.html HTTP/1.1\r\n
    Host: detectportal.firefox.com\r\n
    User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64; rv:144.0) Gecko/20100101 Firefox/144.0\r\n
    Accept: */*\r\n
    Accept-Language: en-US,en;q=0.5\r\n
    Accept-Encoding: gzip, deflate\r\n
    Cache-Control: no-cache\r\n
    Pragma: no-cache\r\n
    Connection: keep-alive\r\n
    \r\n
    [Full request URI: http://detectportal.firefox.com/canonical.html]
    [HTTP request 1/1]
    [Response in frame: 704]
```

Q2: What languages (if any) does your browser indicate that it can accept to the server?

The languages the browser indicating accepted to the server are:

En-us





3. What is the status code returned from the server to your browser?

200 OK

4. When was the HTML file that last modified at the server? (http 200 ok server side)

Thu, 30 Oct 2025 time14:18:56 GMT\r\n

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

Content-Length: 8\r\n

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.

There are not such headers displayed

First you clear the cache, crtl+shift+delete on firfox

8. 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?

No, I don't see an "IF-MODIFIED-SINCE" line in the HTTP GET. Because server retrieve the data

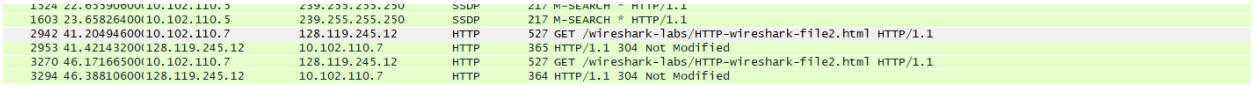
9. Inspect the contents of the server response. Did the server explicitly return the contents of the file? How can you tell?

No, because it was sent by cache, the server did not open up the page again.

10. Close the browser and open the link again. Capture this packet. Now inspect the contents of the second HTTP GET request from your browser to the server. Do you see an "IF-MODIFIEDSINCE?" line in the HTTP GET? If so, what information follows the "IF-MODIFIED-SINCE:" header?

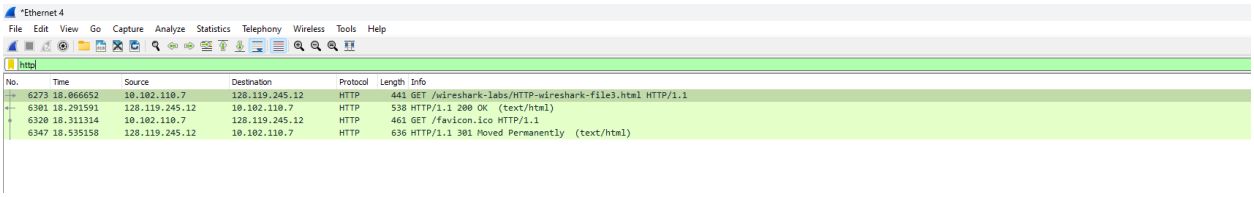
Both time are same after reload the page and first

IF-Modified_since: Tue, 28 Oct 2025 5:59:01 GMT\r\n



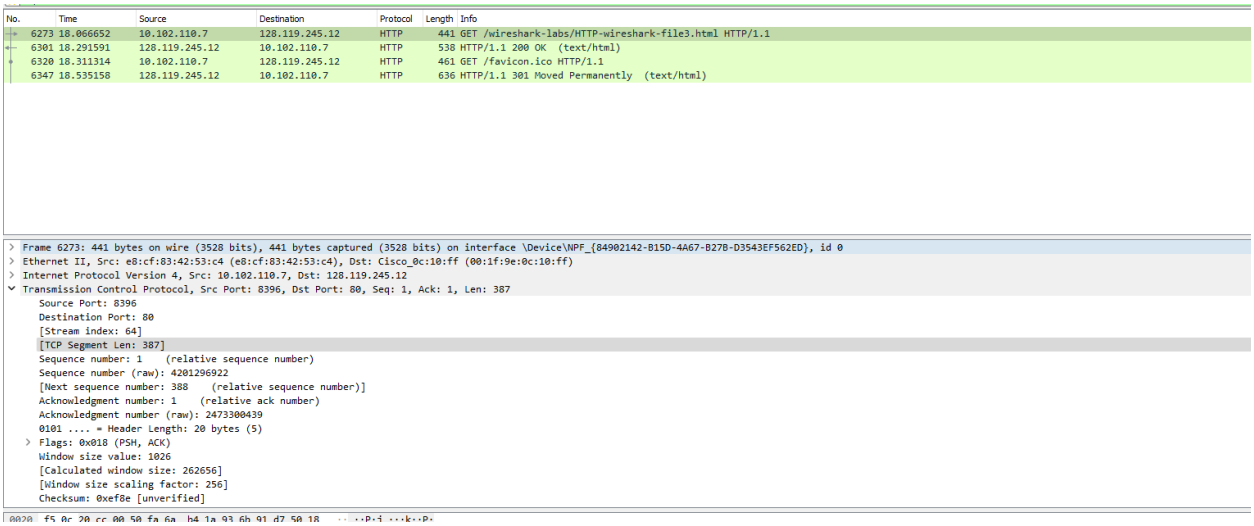
12. How many HTTP GET request messages were sent by your browser?

There are two get request.



13. How many data-containing TCP segments were needed to carry the single HTTP response?

387 TCP segment were added to carry single HTTP segment

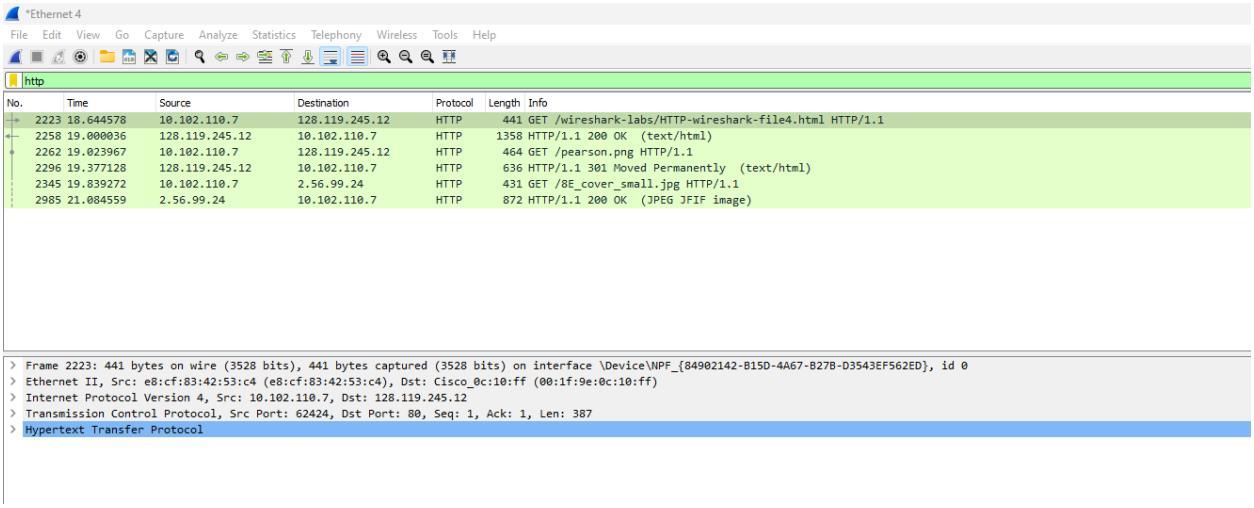


14. How many HTTP GET request messages were sent by your browser? To which Internet addresses were these GET requests sent?

Three GET request, and their destination address are followed:

1. 128.102.110.7
2. 128.102.110.7
3. 10.102.110.7

see destination address from below pic



15. Can you tell whether your browser downloaded the two images serially, or whether they were downloaded from the two web sites in parallel? Explain.

Two images send serially. As only one request was sent to which response come in.

See JPEG image last command