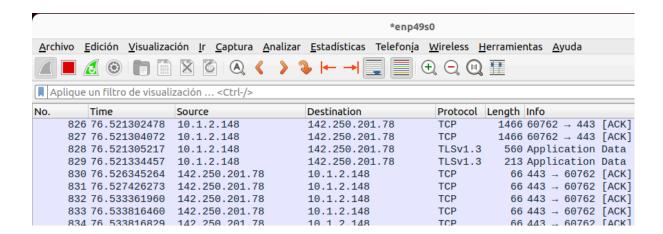
- 1. Start up your web browser.
- 2. Start up the Wireshark packet sniffer, as described in the Introductory lab (but don't yet begin packet capture). Enter "http" (just the letters, not the quotation marks) in the display-filter-specification window, so that only captured HTTP messages will be displayed later in the packet-listing window. (We're only interested in the HTTP protocol here, and don't want to see the clutter of all captured packets).

Una vez arrancado Wireshark, comprobamos las entradas de conexión a nuestro ordenador



Si ya hemos realizado la accion, deberemos aplicar en el buscador un filtro con "http" y deberia de salir como en la siguiente imagen



Lógicamente no veremos ninguna entrada ya que para buscar la conexión http deberemos hacer conexión con alguna web

## 3. Enter the following to your browser http://gaia.cs.umass.edu/wireshark-labs/HTTP-wireshark-file1.html Your browser should display the very simple, one-line HTML file.

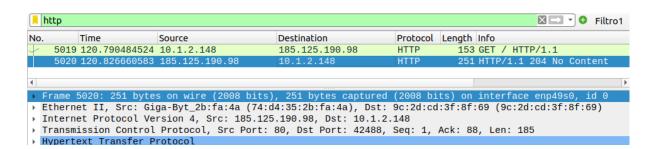
A continuación, entraremos en el link que nos propone la actividad y deberemos ver el siguiente mensaje:



4. Stop Wireshark packet capture.

Si vemos el mensaje el siguiente paso sera parar nuestra captura

Una vez parada, para comprobar que lo tenemos bien, podemos aplicar de nuevo el filtro de "http" y en este caso si veremos las siguientes entradas



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

Mi navegador usa la versión 1.1 como podemos ver en la siguiente imagen

```
Hypertext Transfer Protocol

GET /wireshark-labs/HTTP-wireshark-file1.html HTTP/1.1\r\n

[Expert Info (Chat/Sequence): GET /wireshark-labs/HTTP-wireshark-file1.html HTTP/1.1\r\n]

Request Method: GET

Request URI: /wireshark-labs/HTTP-wireshark-file1.html

Request Version: HTTP/1.1

Heat: Gain on umage odulr):
```

Y agui podemos ver como la version del servidor tambien es 1.1

```
→ Hypertext Transfer Protocol

→ HTTP/1.1 200 OK\r\n

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

Response Version: HTTP/1.1
```

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

```
Accept-Encoding: gzip, deflate\r\n
Accept-Language: es-ES,es;q=0.9\r\n
\r\n
[Full request URI: http://gaia.cs.umass.
[HTTP request 1/1]
[Pesponse in frame: 65]
```

3. What is the IP address of your computer? Of the gaia.cs.umass.edu server?

Mi direccion IP es: 10.1.2.148 y la direccion de la pagina es 185.125.190.98

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

♠ http Filtro									
No.	Time	Source	Destination	Protocol	Length Info				
+	49 2.399700911	172.20.10.3	128.119.245.12	HTTP	627 GET /wireshark-labs/HTTP-wire				
4	54 2.571202156	128.119.245.12	172.20.10.3	HTTP	293 HTTP/1.1 304 Not Modified				
	57 2.574290598	172.20.10.3	128.119.245.12	HTTP	542 GET /wireshark-labs/HTTP-wire				
	65 2.734232796	128.119.245.12	172.20.10.3	HTTP	540 HTTP/1.1 200 OK (text/html)				

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

```
Date: Mon, 23 Sep 2024 17:24:32 GMT\r\n
Server: Apache/2.4.6 (CentOS) OpenSSL/1.0.2k-fips F
Last-Modified: Mon, 23 Sep 2024 05:59:01 GMT\r\n
```

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

```
Frame Number: 65
Frame Length: 540 bytes (4320 bits)
Capture Length: 540 bytes (4320 bits)
```

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.

```
[Expert Info (Chat/Sequence): GET /wireshark-labs/HTTP-wireshark-file1.html HTTP/1.1\r\n]
[GET /wireshark-labs/HTTP-wireshark-file1.html HTTP/1.1\r\n]
[Severity level: Chat]
[Group: Sequence]
```

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, en la primera respuesta HTTP no encontramos ningun "if-modified-since"

- 9. Inspect the contents of the server response. Did the server explicitly return the contents of the file? How can you tell?
- 10. 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?
- Si, en la segunda respuesta de HTTP encontramos la siguiente información:

```
If-Modified-Since: Mon, 23 Sep 2024 05:59:01 GMT\r\n
```

11. 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.

En este caso tenemos el código 200 OK, esto significa que ha encontrado la página web correctamente

<b>+</b>	5/ 2.5/4290598	1/2.20.10.3	128.119.245.12	HTTP	542 GET /wireshark-labs/F
4	65 2.734232796	128.119.245.12	172.20.10.3	HTTP	540 HTTP/1.1 200 OK (tex

12. How many HTTP GET request messages did your browser send? Which packet number in the trace contains the GET message for the Bill or Rights?

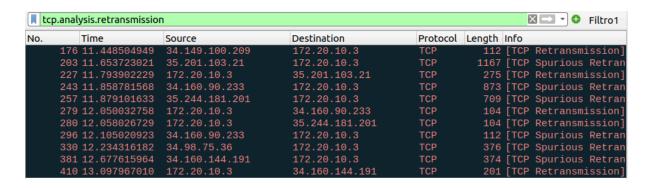
Mi navegador envío 2 paquetes GET

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

14. What is the status code and phrase in the response?

El código de estado más común que deberías encontrar es 200 OK

15. How many data-containing TCP segments were needed to carry the single HTTP response and the text of the Bill of Rights?



16. How many HTTP GET request messages did your browser send? To which Internet addresses were these GET requests sent?

Mando dos mensajes de respuesta

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