1. List 3 different protocols that appear in the protocol column in the unfiltered packet-listing window in step 7 above.

2. 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.)

3. What is the Internet address of the gaia.cs.umass.edu (also known as www-net.cs.umass.edu)? What is the Internet address of your computer?

4. Print the two HTTP messages (GET and OK) referred to in question 2 above. To do so, select Print from the Wireshark File command menu, and select the "Selected Packet Only" and "Print as displayed" radial buttons, and then click OK.

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

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

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

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

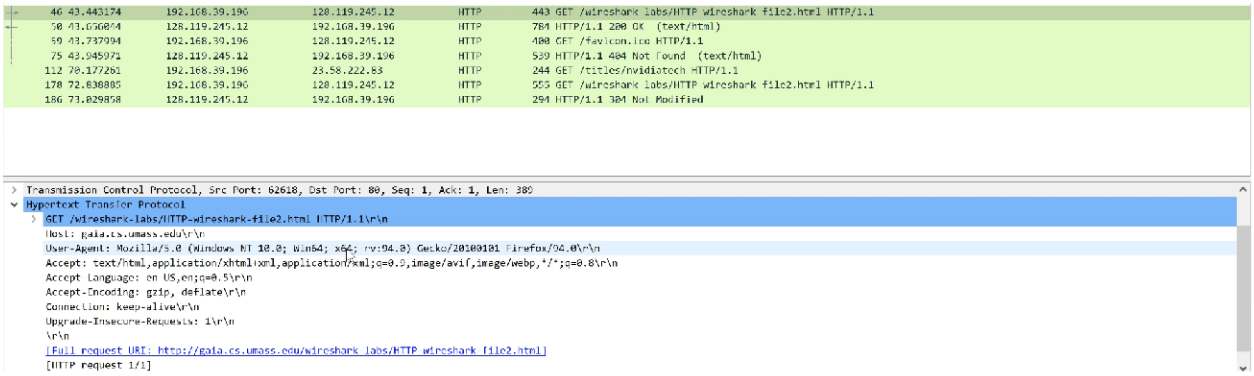
5. When was the HTML file that you are retrieving last modified at the server?

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

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.

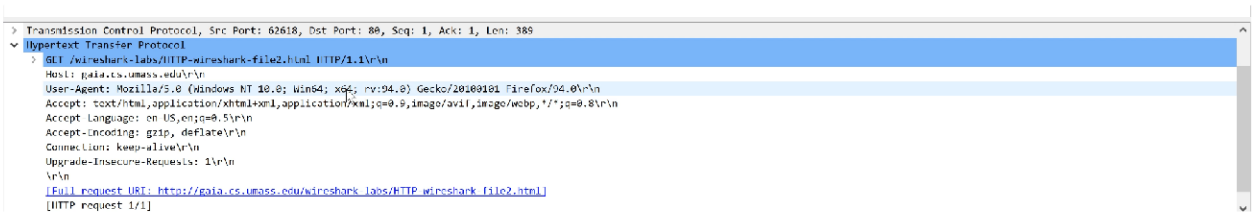
8. Inspect the contents of the first HTTP GET request from your browser to the server. Do you see an “IF-MODIFIED-SINCE” line in the HTTP GET?

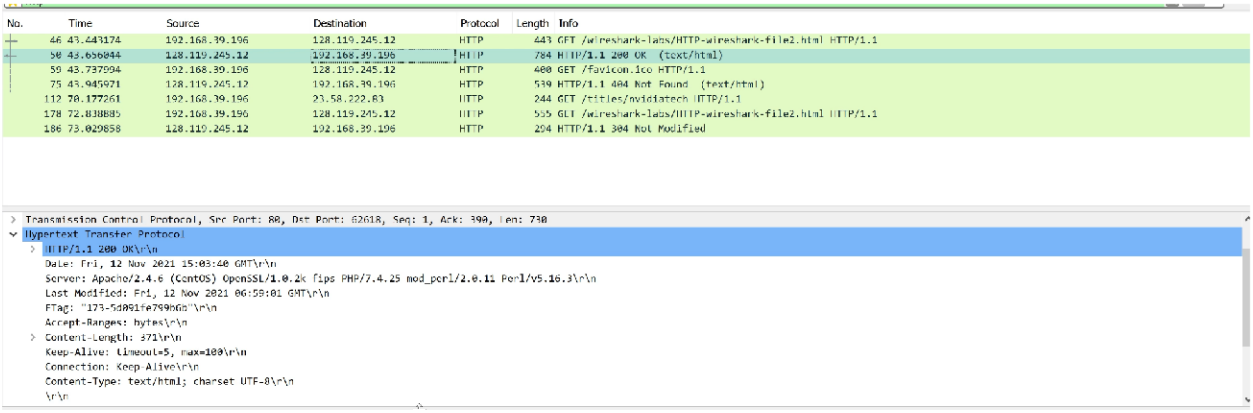
IF-MODIFIED-SINCE در http get نیست



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

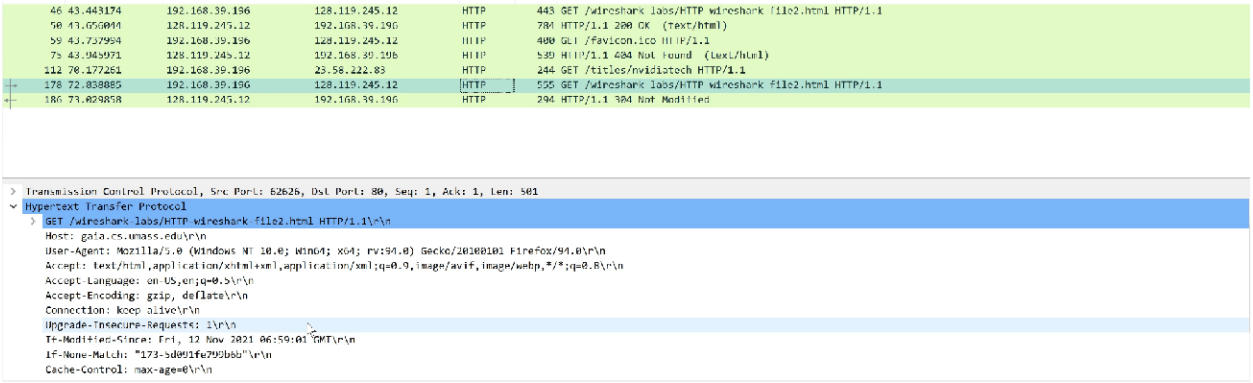
بله-سرور به وضوح محتویات فایل را نشان می دهد.وایرشارک یک بخش line-based text data نشان می دهد سرور چه چیز را به مرورگر بر می گرداند.





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?

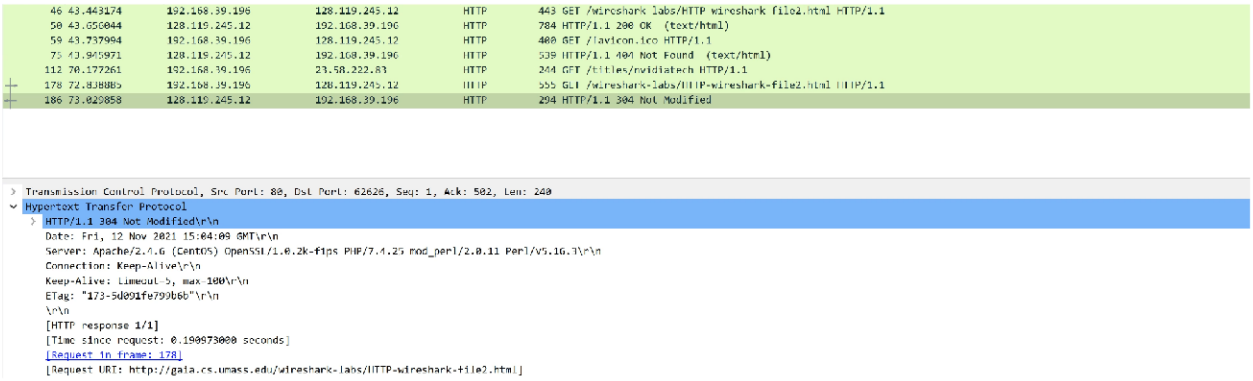
بله IF-MODIFIED-SINCE هست.تاریخ و آخرین دسترسی ما را به وبسایت نشان می دهد.



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.

کد: 304 not modified

سرور محتویات فایل را برنمی گرداند. چون محتویات فایل را از کش خودش بازیابی کرده است. آخرین باری که به فایل modified since دسترسی پیدا کرده بود، محتویات فایل را نشان می دهد.



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

اگر favicon.ico را حساب نکنیم فقط یک گت ریکوست و پکت نامبر ما 16 است

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

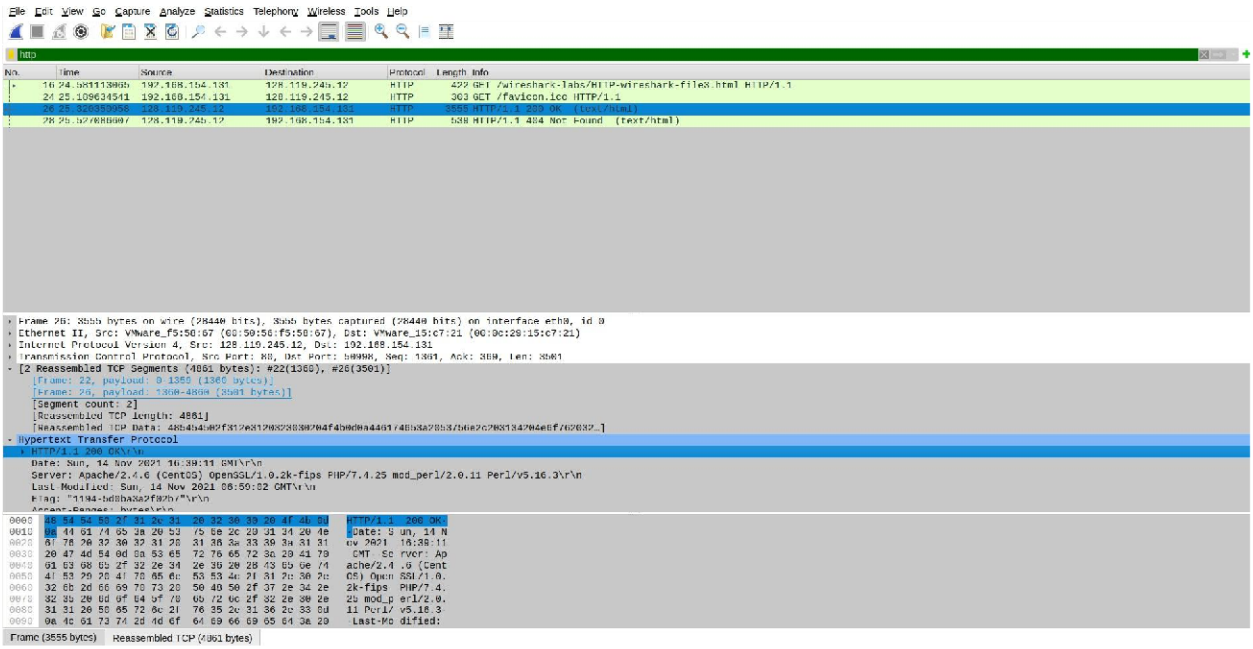
پکت نامبر ما 26 است و فریز ما HTTP/1.1 200 OK

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

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?

2 سگمنت TCP

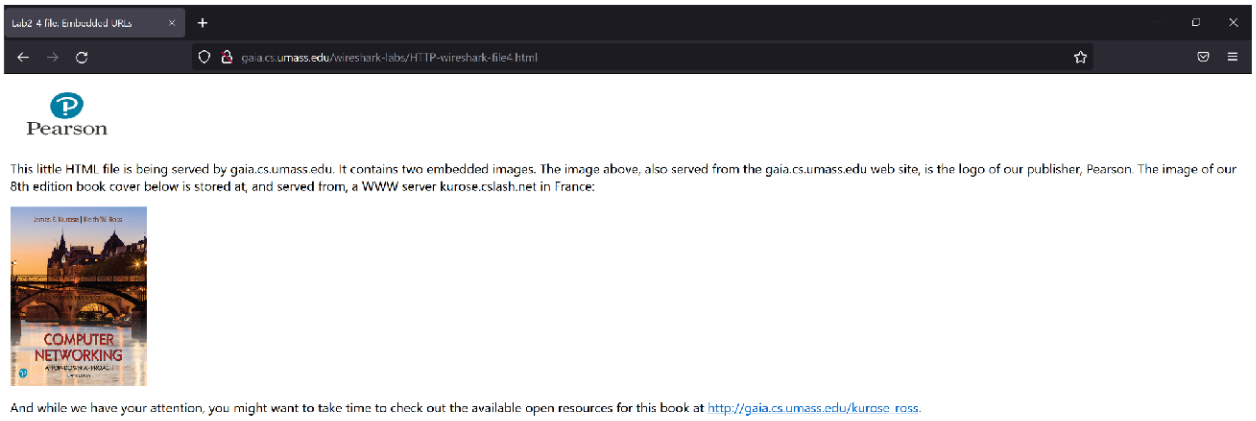


16. How many HTTP GET request messages did your browser send? To which Internet addresses were these GET requests sent?

مرورگر 4تا پیام درخواست http get ارسال کرده است.

15	6.101860	192.168.43.137	128.119.245.12	HTTP	443 GET /wireshark-labs/HTTP-wireshark-file4.html HTTP/1.1
21	6.302145	128.119.245.12	192.168.43.137	HTTP	1355 HTTP/1.1 200 OK (text/html)
24	6.368935	192.168.43.137	128.119.245.12	HTTP	400 GET /pearson.png HTTP/1.1
38	6.565647	192.168.43.137	128.119.245.12	HTTP	400 GET /favicon.ico HTTP/1.1
41	6.592139	192.168.43.137	178.79.137.164	HTTP	367 GET /8E_cover_small.jpg HTTP/1.1
52	6.680979	128.119.245.12	192.168.43.137	HTTP	866 HTTP/1.1 200 OK (PNG)
61	6.709565	178.79.137.164	192.168.43.137	HTTP	225 HTTP/1.1 301 Moved Permanently
68	6.765895	128.119.245.12	192.168.43.137	HTTP	539 HTTP/1.1 404 Not Found (text/html)

1. The initial page
2. Pearson logo
3. 8th-cover-small
4. favicon



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

به صورت سریال دانلود کرده است. چون تصویر اول قبل از در خواست تصویر دوم توسط مرورگر در خواست و ارسال شده است و تصویر دوم بعد از برگشت تصویر اول در خواست شده است.

اگر به صورت موازی بود هر دو هم زمان در خواست و نشان داده می شدند.

Pearson

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And while we have your attention, you might want to take time to check out the available open resources for this book at http://gaia.cs.umass.edu/kurose_ross.

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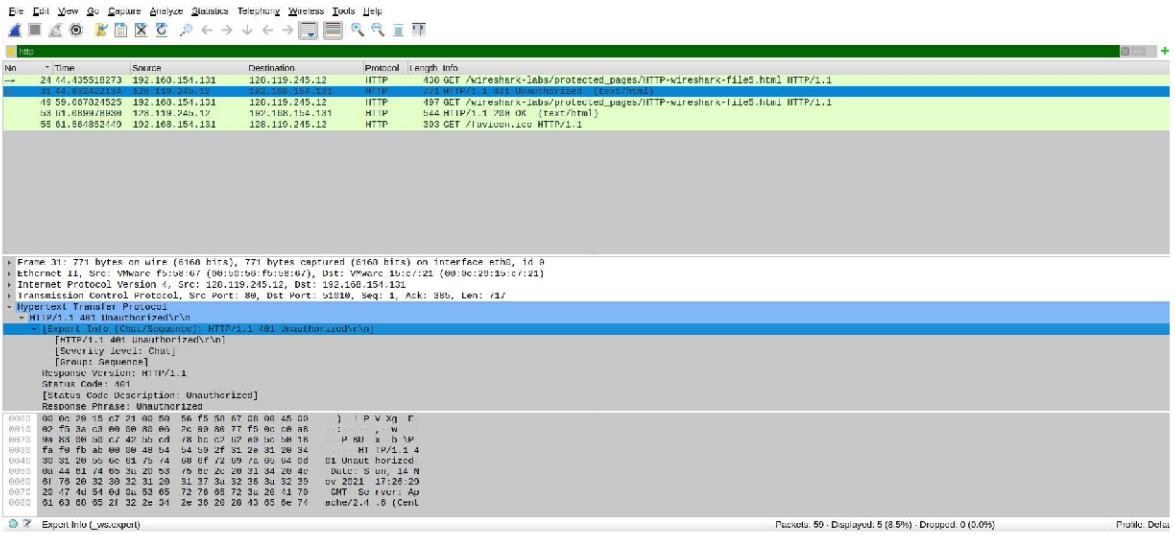
And while we have your attention, you might want to take time to check out the available open resources for this book at http://gaia.cs.umass.edu/kurose_ross.

18. What is the server's response (status code and phrase) in response to the initial HTTP GET message from your browser?

HTTP/1.1 401 unauthorized



19. When your browser's sends the HTTP GET message for the second time, what new field is included in the HTTP GET message?

wireshark-students:network