

BÁO CÁO LAB2 NHẬP MÔN MẠNG MÁY TÍNH

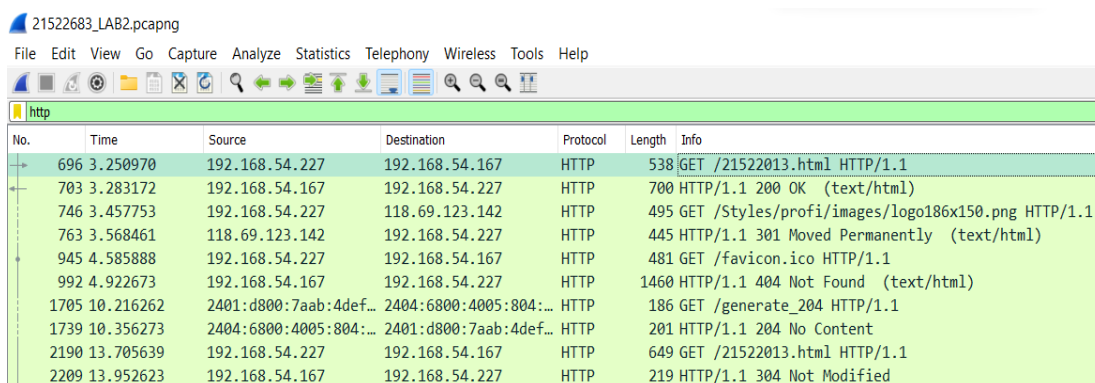
Họ và tên: Phan Trọng Tính

MSSV: 21522683

Lớp: IT005.N110.1

Câu 1: Trình duyệt đang sử dụng phiên bản HTTP 1.0 hay 1.1? Phiên bản HTTP server đang sử dụng là bao nhiêu?

- Trình duyệt đang sử dụng bản 1.1. Phiên bản HTTP server đang sử dụng bản 1.1 .



21522683_LAB2.pcapng

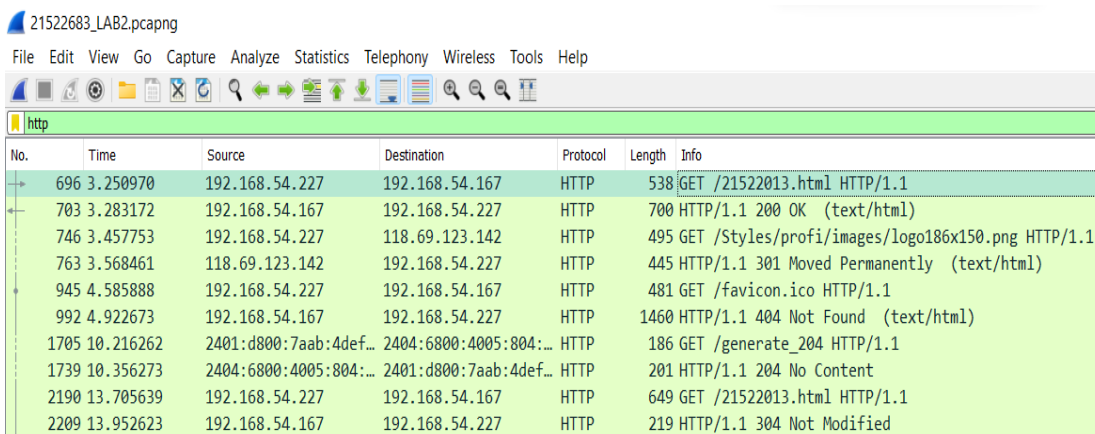
| No. | Time | Source | Destination | Protocol | Length | Info |
|------|-----------|------------------------|------------------------|----------|--------|---|
| 696 | 3.250970 | 192.168.54.227 | 192.168.54.167 | HTTP | 538 | GET /21522013.html HTTP/1.1 |
| 703 | 3.283172 | 192.168.54.167 | 192.168.54.227 | HTTP | 700 | HTTP/1.1 200 OK (text/html) |
| 746 | 3.457753 | 192.168.54.227 | 118.69.123.142 | HTTP | 495 | GET /Styles/profi/images/logo186x150.png HTTP/1.1 |
| 763 | 3.568461 | 118.69.123.142 | 192.168.54.227 | HTTP | 445 | HTTP/1.1 301 Moved Permanently (text/html) |
| 945 | 4.585888 | 192.168.54.227 | 192.168.54.167 | HTTP | 481 | GET /favicon.ico HTTP/1.1 |
| 992 | 4.922673 | 192.168.54.167 | 192.168.54.227 | HTTP | 1460 | HTTP/1.1 404 Not Found (text/html) |
| 1705 | 10.216262 | 2401:d800:7aab:4def... | 2404:6800:4005:804:... | HTTP | 186 | GET /generate_204 HTTP/1.1 |
| 1739 | 10.356273 | 2404:6800:4005:804:... | 2401:d800:7aab:4def... | HTTP | 201 | HTTP/1.1 204 No Content |
| 2190 | 13.705639 | 192.168.54.227 | 192.168.54.167 | HTTP | 649 | GET /21522013.html HTTP/1.1 |
| 2209 | 13.952623 | 192.168.54.167 | 192.168.54.227 | HTTP | 219 | HTTP/1.1 304 Not Modified |

Câu 2: Địa chỉ IP của máy tính bạn là bao nhiêu? Của web server là bao nhiêu?

- Địa chỉ IP của máy là: 192.168.54.227
- Địa chỉ IP của Server là: 192.168.54.167

Câu 3: Mã trạng thái (status code) trả về từ server là gì?

- Các mã trạng thái trả về là: 200 OK, 301 Moved Permanently, 404 Not Found, 204 No Content, 304 Not Modified.



21522683_LAB2.pcapng

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|------|-----------|------------------------|------------------------|----------|--------|---|
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| 703 | 3.283172 | 192.168.54.167 | 192.168.54.227 | HTTP | 700 | HTTP/1.1 200 OK (text/html) |
| 746 | 3.457753 | 192.168.54.227 | 118.69.123.142 | HTTP | 495 | GET /Styles/profi/images/logo186x150.png HTTP/1.1 |
| 763 | 3.568461 | 118.69.123.142 | 192.168.54.227 | HTTP | 445 | HTTP/1.1 301 Moved Permanently (text/html) |
| 945 | 4.585888 | 192.168.54.227 | 192.168.54.167 | HTTP | 481 | GET /favicon.ico HTTP/1.1 |
| 992 | 4.922673 | 192.168.54.167 | 192.168.54.227 | HTTP | 1460 | HTTP/1.1 404 Not Found (text/html) |
| 1705 | 10.216262 | 2401:d800:7aab:4def... | 2404:6800:4005:804:... | HTTP | 186 | GET /generate_204 HTTP/1.1 |
| 1739 | 10.356273 | 2404:6800:4005:804:... | 2401:d800:7aab:4def... | HTTP | 201 | HTTP/1.1 204 No Content |
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| 2209 | 13.952623 | 192.168.54.167 | 192.168.54.227 | HTTP | 219 | HTTP/1.1 304 Not Modified |

Câu 4: Server đã trả về cho trình duyệt bao nhiêu bytes nội dung?

- Với 399 bytes, 169 bytes, 1245 bytes ứng với mỗi tập tin.

21522683_LAB2.pcapng

File Edit View Go Capture Analyze Statistics Telephony Wireless Tools Help

http

| No. | Time | Source | Destination | Protocol | Length | Info |
|------|-----------|------------------------|------------------------|----------|--------|---|
| 696 | 3.250970 | 192.168.54.227 | 192.168.54.167 | HTTP | 538 | GET /21522013.html HTTP/1.1 |
| 703 | 3.283172 | 192.168.54.167 | 192.168.54.227 | HTTP | 700 | HTTP/1.1 200 OK (text/html) |
| 746 | 3.457753 | 192.168.54.227 | 118.69.123.142 | HTTP | 495 | GET /Styles/profi/images/logo186x150.png HTTP/1.1 |
| 763 | 3.568461 | 118.69.123.142 | 192.168.54.227 | HTTP | 445 | HTTP/1.1 301 Moved Permanently (text/html) |
| 945 | 4.585888 | 192.168.54.227 | 192.168.54.167 | HTTP | 481 | GET /favicon.ico HTTP/1.1 |
| 992 | 4.922673 | 192.168.54.167 | 192.168.54.227 | HTTP | 1460 | HTTP/1.1 404 Not Found (text/html) |
| 1705 | 10.216262 | 2401:d800:7aab:4def... | 2404:6800:4005:804:... | HTTP | 186 | GET /generate_204 HTTP/1.1 |
| 1739 | 10.356273 | 2404:6800:4005:804:... | 2401:d800:7aab:4def... | HTTP | 201 | HTTP/1.1 204 No Content |
| 2190 | 13.705639 | 192.168.54.227 | 192.168.54.167 | HTTP | 649 | GET /21522013.html HTTP/1.1 |
| 2209 | 13.952623 | 192.168.54.167 | 192.168.54.227 | HTTP | 219 | HTTP/1.1 304 Not Modified |

Etag: "d3bab59e4dad81:0"\r\n
Server: Microsoft-IIS/10.0\r\n
X-Powered-By: ASP.NET\r\n
Date: Wed, 12 Oct 2022 14:25:06 GMT\r\n
> Content-Length: 399\r\n
\r\n
[HTTP response 1/3]
[Time since request: 0.032202000 seconds]
[\[Request in frame: 696\]](#)
[\[Next request in frame: 945\]](#)
[\[Next response in frame: 992\]](#)
[Request URI: http://192.168.54.167/21522013.html]
File Data: 399 bytes

21522683_LAB2.pcapng

File Edit View Go Capture Analyze Statistics Telephony Wireless Tools Help

http

| No. | Time | Source | Destination | Protocol | Length | Info |
|------|-----------|------------------------|------------------------|----------|--------|---|
| 696 | 3.250970 | 192.168.54.227 | 192.168.54.167 | HTTP | 538 | GET /21522013.html HTTP/1.1 |
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| 746 | 3.457753 | 192.168.54.227 | 118.69.123.142 | HTTP | 495 | GET /Styles/profi/images/logo186x150.png HTTP/1.1 |
| 763 | 3.568461 | 118.69.123.142 | 192.168.54.227 | HTTP | 445 | HTTP/1.1 301 Moved Permanently (text/html) |
| 945 | 4.585888 | 192.168.54.227 | 192.168.54.167 | HTTP | 481 | GET /favicon.ico HTTP/1.1 |
| 992 | 4.922673 | 192.168.54.167 | 192.168.54.227 | HTTP | 1460 | HTTP/1.1 404 Not Found (text/html) |
| 1705 | 10.216262 | 2401:d800:7aab:4def... | 2404:6800:4005:804:... | HTTP | 186 | GET /generate_204 HTTP/1.1 |
| 1739 | 10.356273 | 2404:6800:4005:804:... | 2401:d800:7aab:4def... | HTTP | 201 | HTTP/1.1 204 No Content |
| 2190 | 13.705639 | 192.168.54.227 | 192.168.54.167 | HTTP | 649 | GET /21522013.html HTTP/1.1 |
| 2209 | 13.952623 | 192.168.54.167 | 192.168.54.227 | HTTP | 219 | HTTP/1.1 304 Not Modified |

Server: nginx\r\n
Date: Wed, 12 Oct 2022 14:25:08 GMT\r\n
Content-Type: text/html\r\n
> Content-Length: 162\r\n
Connection: keep-alive\r\n
Location: https://portal.uit.edu.vn/Styles/profi/images/logo186x150.png\r\n
\r\n
[HTTP response 1/1]
[Time since request: 0.110708000 seconds]
[\[Request in frame: 746\]](#)
[\[Request URI: http://portal.uit.edu.vn/Styles/profi/images/logo186x150.png\]](#)
File Data: 162 bytes
> Line-based text data: text/html (7 lines)

21522683_LAB2.pcapng

File Edit View Go Capture Analyze Statistics Telephony Wireless Tools Help

http

| No. | Time | Source | Destination | Protocol | Length | Info |
|------|-----------|------------------------|------------------------|----------|--------|---|
| 696 | 3.250970 | 192.168.54.227 | 192.168.54.167 | HTTP | 538 | GET /21522013.html HTTP/1.1 |
| 703 | 3.283172 | 192.168.54.167 | 192.168.54.227 | HTTP | 700 | HTTP/1.1 200 OK (text/html) |
| 746 | 3.457753 | 192.168.54.227 | 118.69.123.142 | HTTP | 495 | GET /Styles/profi/images/logo186x150.png HTTP/1.1 |
| 763 | 3.568461 | 118.69.123.142 | 192.168.54.227 | HTTP | 445 | HTTP/1.1 301 Moved Permanently (text/html) |
| 945 | 4.585888 | 192.168.54.227 | 192.168.54.167 | HTTP | 481 | GET /favicon.ico HTTP/1.1 |
| 992 | 4.922673 | 192.168.54.167 | 192.168.54.227 | HTTP | 1460 | HTTP/1.1 404 Not Found (text/html) |
| 1705 | 10.216262 | 2401:d800:7aab:4def... | 2404:6800:4005:804:... | HTTP | 186 | GET /generate_204 HTTP/1.1 |
| 1739 | 10.356273 | 2404:6800:4005:804:... | 2401:d800:7aab:4def... | HTTP | 201 | HTTP/1.1 204 No Content |
| 2190 | 13.705639 | 192.168.54.227 | 192.168.54.167 | HTTP | 649 | GET /21522013.html HTTP/1.1 |
| 2209 | 13.952623 | 192.168.54.167 | 192.168.54.227 | HTTP | 219 | HTTP/1.1 304 Not Modified |

Date: Wed, 12 Oct 2022 14:25:08 GMT\r\n

> Content-Length: 1245\r\n

\r\n

[HTTP response 2/3]

[Time since request: 0.336785000 seconds]

[Prev request in frame: 696]

[Prev response in frame: 703]

[Request in frame: 945]

[Next request in frame: 2190]

[Next response in frame: 2209]

[Request URI: http://192.168.54.167/21522013.html]

File Data: 1245 bytes

> line-based text data: text/html (29 lines)

Câu 5: Xem xét nội dung của HTTP GET đầu tiên. Bạn có thấy dòng “IF-MODIFIEDSINCE” hay không?

- Quan sát thấy không có dòng “IF-MODIFIEDSINCE” ở lệnh HTTP GET

21522683_LAB2.pcapng

File Edit View Go Capture Analyze Statistics Telephony Wireless Tools Help

http

| No. | Time | Source | Destination | Protocol | Length | Info |
|------|-----------|------------------------|------------------------|----------|--------|---|
| 696 | 3.250970 | 192.168.54.227 | 192.168.54.167 | HTTP | 538 | GET /21522013.html HTTP/1.1 |
| 703 | 3.283172 | 192.168.54.167 | 192.168.54.227 | HTTP | 700 | HTTP/1.1 200 OK (text/html) |
| 746 | 3.457753 | 192.168.54.227 | 118.69.123.142 | HTTP | 495 | GET /Styles/profi/images/logo186x150.png HTTP/1.1 |
| 763 | 3.568461 | 118.69.123.142 | 192.168.54.227 | HTTP | 445 | HTTP/1.1 301 Moved Permanently (text/html) |
| 945 | 4.585888 | 192.168.54.227 | 192.168.54.167 | HTTP | 481 | GET /favicon.ico HTTP/1.1 |
| 992 | 4.922673 | 192.168.54.167 | 192.168.54.227 | HTTP | 1460 | HTTP/1.1 404 Not Found (text/html) |
| 1705 | 10.216262 | 2401:d800:7aab:4def... | 2404:6800:4005:804:... | HTTP | 186 | GET /generate_204 HTTP/1.1 |
| 1739 | 10.356273 | 2404:6800:4005:804:... | 2401:d800:7aab:4def... | HTTP | 201 | HTTP/1.1 204 No Content |
| 2190 | 13.705639 | 192.168.54.227 | 192.168.54.167 | HTTP | 649 | GET /21522013.html HTTP/1.1 |
| 2209 | 13.952623 | 192.168.54.167 | 192.168.54.227 | HTTP | 219 | HTTP/1.1 304 Not Modified |

> Frame 696: 538 bytes on wire (4304 bits), 538 bytes captured (4304 bits) on interface \Device\NPF_{4EACCFB0-EED3-4ECC-9132-138CC0DD520A}, id 0

> Ethernet II, Src: LiteonTe_3d:18:9f (94:08:53:3d:18:9f), Dst: IntelCor_3c:5c:49 (20:1e:88:3c:5c:49)

> Internet Protocol Version 4, Src: 192.168.54.227, Dst: 192.168.54.167

> Transmission Control Protocol, Src Port: 55100, Dst Port: 80, Seq: 1, Ack: 1, Len: 484

> Hypertext Transfer Protocol

> GET /21522013.html HTTP/1.1\r\n

> [Expert Info (Chat/Sequence): GET /21522013.html HTTP/1.1\r\n]

Request Method: GET

Request URI: /21522013.html

Request Version: HTTP/1.1

Host: 192.168.54.167\r\n

Connection: keep-alive\r\n

Upgrade-Insecure-Requests: 1\r\n

User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/106.0.0.0 Safari/537.36\r\n

Accept: text/html,application/xhtml+xml,application/xml;q=0.9,image/avif,image/webp,image/apng,*/*;q=0.8,application/signed-exchange;v=b3;q=0.9\r\n

Accept-Encoding: gzip, deflate\r\n

Accept-Language: vi-VN,vi;q=0.9,fr-FR;q=0.8,fr;q=0.7,en-US;q=0.6,en;q=0.5\r\n

\r\n

[Full request URI: http://192.168.54.167/21522013.html]

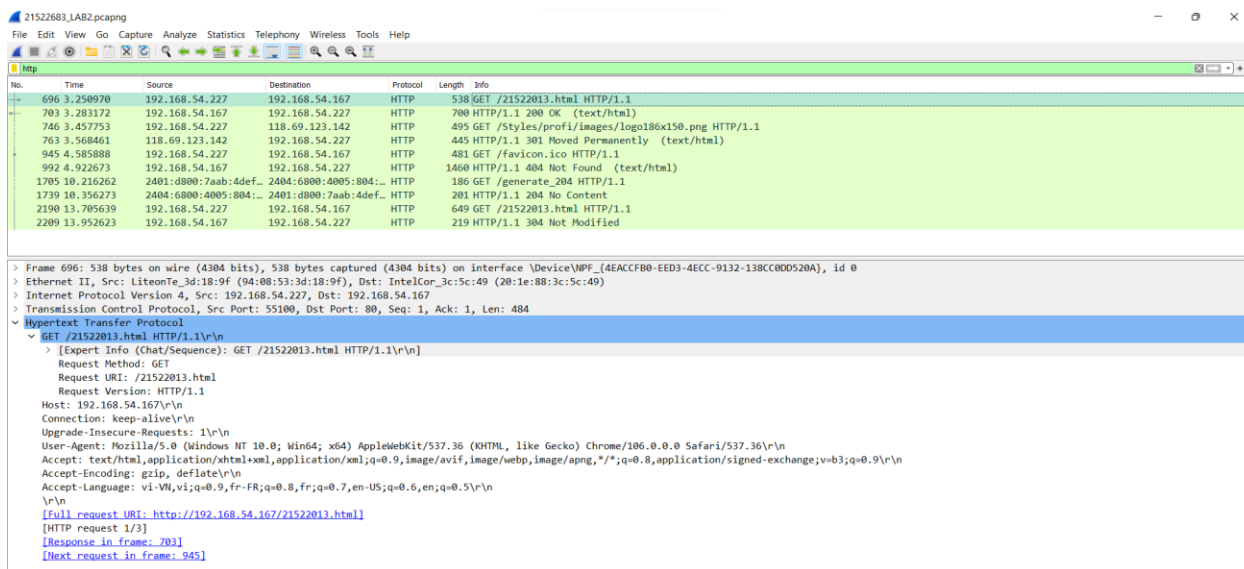
[HTTP request 1/3]

[Response in frame: 703]

[Next request in frame: 945]

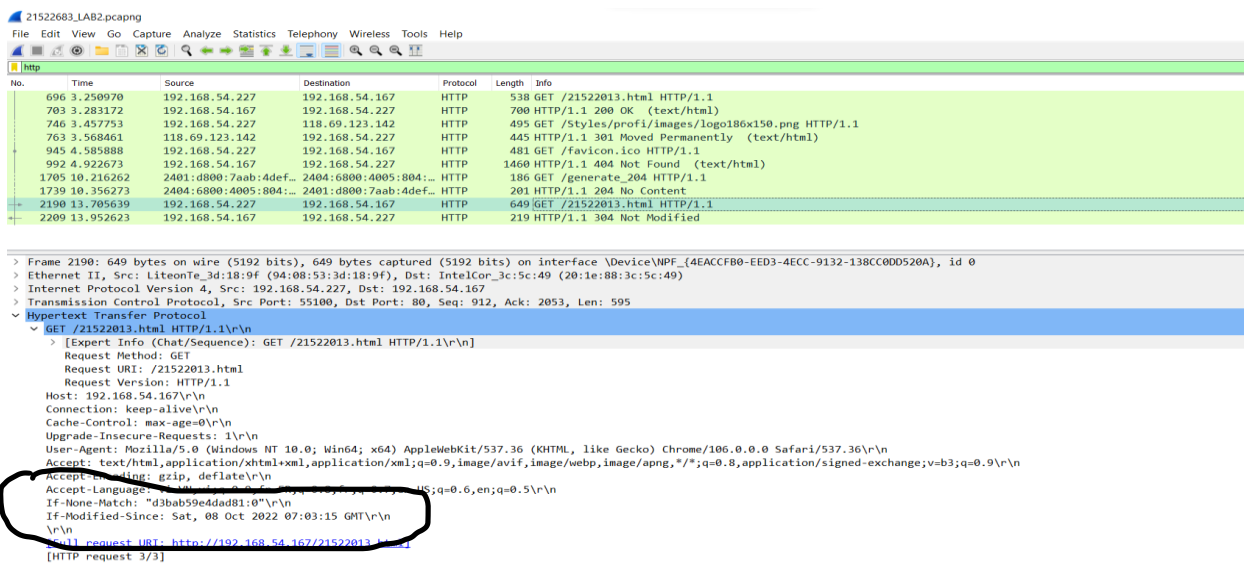
Câu 6: Xem xét nội dung phản hồi từ server. Server có thật sự trả về nội dung của file HTML hay không? Tại sao?

- Quá trình phản hồi từ server: Client gửi yêu cầu file -> Server tìm kiếm file-> Server trả kết quả về Client -> Client tải về và hiển thị.
- (Khi file cần tải đã nằm trong bộ nhớ cache thì sẽ lấy từ cache đem về còn nếu file yêu cầu thực sự chưa có thì sẽ yêu cầu Server tìm và gửi về cho Client). Ta thấy có nội dung file HTML (do đã xóa Cache, nên khi ta yêu cầu get thì thì Server sẽ tìm kiếm và trả file này trực tiếp từ Server).



Câu 7: Xem xét nội dung của HTTP GET thứ 2. Bạn có thấy dòng “IF-MODIFIEDSINCE” hay không? Nếu có, giá trị của IF-MODIFIED-SINCE là gì?

- Tại nội dung HTTP GET thứ 2 ta thấy có nội dung If-Modified-Since với nội dung: Sat, 08 Oct 2022 07:03:15 GMT\r\n



Câu 8: Mã trạng thái HTTP được trả về từ server tương ứng với HTTP GET thứ 2 là gì? Ý nghĩa nó là gì? Server có thật sự gửi về nội dung của file hay không? Giải thích ?

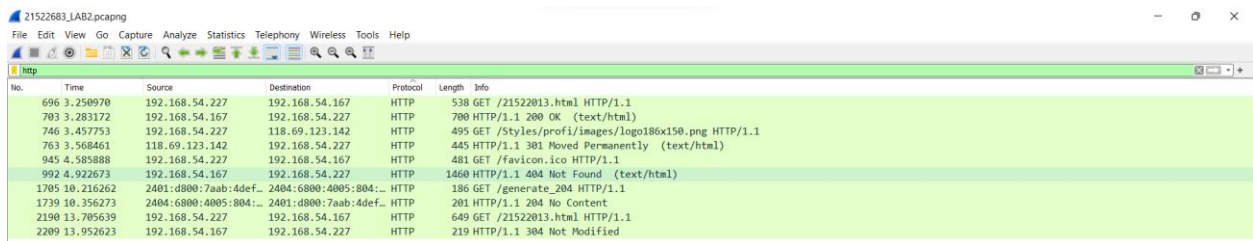
- Mã trạng thái đi kèm với HTTP GET thứ 2 là 304 Not Modified cho client biết rằng phản hồi chưa được điều chỉnh, nên client có thể tiếp tục sử dụng cùng phiên bản phản hồi trong bộ nhớ cache.



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| 746 | 3.457753 | 192.168.54.227 | 118.69.123.142 | HTTP | 495 | GET /Styles/profi/images/logo186x150.png HTTP/1.1 |
| 763 | 3.568461 | 118.69.123.142 | 192.168.54.227 | HTTP | 445 | HTTP/1.1 301 Moved Permanently (text/html) |
| 945 | 4.585888 | 192.168.54.227 | 192.168.54.167 | HTTP | 481 | GET /favicon.ico HTTP/1.1 |
| 992 | 4.922673 | 192.168.54.167 | 192.168.54.227 | HTTP | 1460 | HTTP/1.1 404 Not Found (text/html) |
| 1705 | 10.216262 | 2401:d800:7aab:4def:: | 2404:6800:4005:804:: | HTTP | 186 | GET /generate_204 HTTP/1.1 |
| 1739 | 10.356273 | 2404:6800:4005:804:: | 2401:d800:7aab:4def:: | HTTP | 201 | HTTP/1.1 204 No Content |
| 2190 | 13.705639 | 192.168.54.227 | 192.168.54.167 | HTTP | 649 | GET /21522013.html HTTP/1.1 |
| 2209 | 13.952623 | 192.168.54.167 | 192.168.54.227 | HTTP | 219 | HTTP/1.1 304 Not Modified |

Câu 9: Trình duyệt đã gửi bao nhiêu HTTP GET? Đến những địa chỉ IP nào?

- Trình duyệt đã trả về 4 HTTP GET. Trong đó, có 3 cái đến IP 192.168.54.167 đây là IP của web server và 1 cái đến IP 118.69.123.142 chứa ảnh logo UIT.

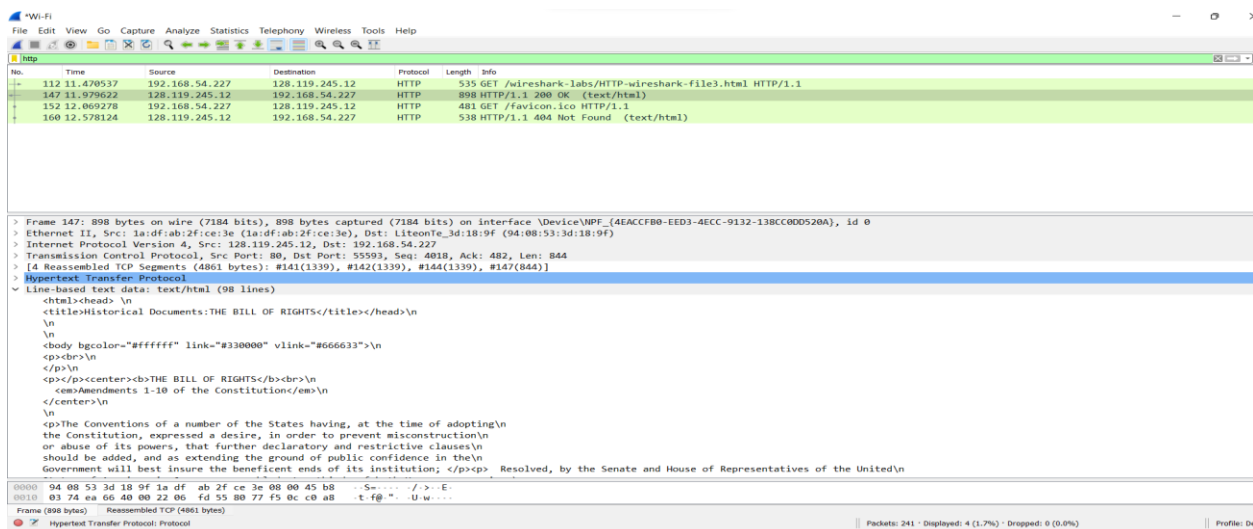


| No. | Time | Source | Destination | Protocol | Length | Info |
|------|-----------|-----------------------|-----------------------|----------|--------|---|
| 696 | 3.250970 | 192.168.54.227 | 192.168.54.167 | HTTP | 538 | GET /21522013.html HTTP/1.1 |
| 703 | 3.283172 | 192.168.54.167 | 192.168.54.227 | HTTP | 700 | HTTP/1.1 200 OK (text/html) |
| 746 | 3.457753 | 192.168.54.227 | 118.69.123.142 | HTTP | 495 | GET /Styles/profi/images/logo186x150.png HTTP/1.1 |
| 763 | 3.568461 | 118.69.123.142 | 192.168.54.227 | HTTP | 445 | HTTP/1.1 301 Moved Permanently (text/html) |
| 945 | 4.585888 | 192.168.54.227 | 192.168.54.167 | HTTP | 481 | GET /favicon.ico HTTP/1.1 |
| 992 | 4.922673 | 192.168.54.167 | 192.168.54.227 | HTTP | 1460 | HTTP/1.1 404 Not Found (text/html) |
| 1705 | 10.216262 | 2401:d800:7aab:4def:: | 2404:6800:4005:804:: | HTTP | 186 | GET /generate_204 HTTP/1.1 |
| 1739 | 10.356273 | 2404:6800:4005:804:: | 2401:d800:7aab:4def:: | HTTP | 201 | HTTP/1.1 204 No Content |
| 2190 | 13.705639 | 192.168.54.227 | 192.168.54.167 | HTTP | 649 | GET /21522013.html HTTP/1.1 |
| 2209 | 13.952623 | 192.168.54.167 | 192.168.54.227 | HTTP | 219 | HTTP/1.1 304 Not Modified |

Câu 10: Trình duyệt đã gửi bao nhiêu HTTP GET? Dòng “THE BILL OF RIGHTS” được chứa trong gói tin phản hồi thứ mấy?

được chứa trong gói tin phản hồi thứ mấy?

- Trình duyệt gửi về 2 HTTP GET. Dòng “THE BILL OF RIGHTS” được chứa trong gói tin 147.

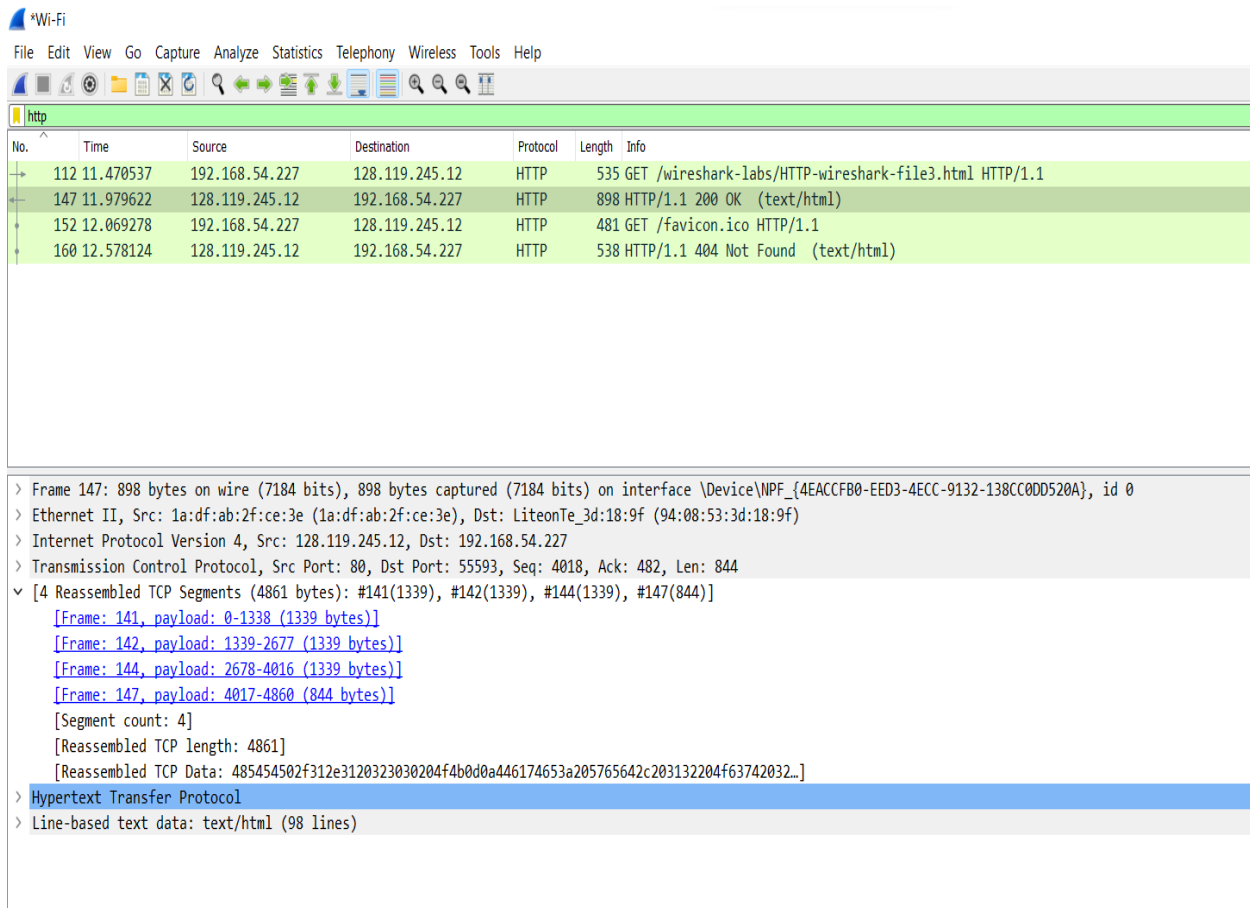


| No. | Time | Source | Destination | Protocol | Length | Info |
|-----|-----------|----------------|----------------|----------|--------|--|
| 112 | 11.470537 | 192.168.54.227 | 128.119.245.12 | HTTP | 535 | GET /wireshark-labs/HTTP-wireshark-file3.html HTTP/1.1 |
| 147 | 11.979622 | 128.119.245.12 | 192.168.54.227 | HTTP | 898 | HTTP/1.1 200 OK (text/html) |
| 152 | 12.069278 | 192.168.54.227 | 128.119.245.12 | HTTP | 481 | GET /favicon.ico HTTP/1.1 |
| 160 | 12.578124 | 128.119.245.12 | 192.168.54.227 | HTTP | 538 | HTTP/1.1 404 Not Found (text/html) |

> Frame 147: 898 bytes on wire (7184 bits), 898 bytes captured (7184 bits) on interface \Device\NPF_{4EACCFB0-EED3-4ECC-9132-138CC00D520A}, id 0
> Ethernet II, Src: 1a:df:ab:2f:ce:3e (1a:df:ab:2f:ce:3e), Dst: LiteonFe_3d:18:9f (94:00:53:3d:18:9f)
> Internet Protocol Version 4, Src: 128.119.245.12, Dst: 192.168.54.227
> Transmission Control Protocol, Src Port: 80, Dst Port: 55593, Seq: 4018, Ack: 482, Len: 844
> [4 Reassembled TCP Segments (4861 bytes): #141(1339), #142(1339), #144(1339), #147(844)]
> Hypertext Transfer Protocol
Line-based text data: text/html (98 lines)
<html><head> \n<title>Historical Documents:THE BILL OF RIGHTS</title></head>\n</head>\n<body bgcolor="#ffffff" link="#330000" vlink="#666633">\n<p>
\n</p>\n<p><center>THE BILL OF RIGHTS</p>\nAmendments 1-10 of the Constitution\n</center>\n</body>\n<p>The Conventions of a number of the States having, at the time of adopting\nthe Constitution, expressed a desire, in order to prevent misconstruction\nor abuse of its powers, that further declaratory and restrictive clauses\nshould be added, and as extending the ground of public confidence in the\nGovernment will best insure the beneficent ends of its institution;</p><p>Resolved, by the Senate and House of Representatives of the United\nStates of America in Congress assembled, That the following Article be\nenacted, That the following Article be enacted, That the following Article be

Câu 11: Cần bao nhiêu TCP segments để chứa hết HTTP response và nội dung của The Bill of Rights?

- Cần có 4 TCP segments để thỏa yêu cầu



The screenshot shows a Wireshark capture of an HTTP transaction. The packet list shows four packets: a GET request (112), a 200 OK response (147), a GET for a favicon (152), and a 404 Not Found response (160). The details pane for packet 147 shows the response is 898 bytes and is split into 4 TCP segments (141, 142, 144, 147).

| No. | Time | Source | Destination | Protocol | Length | Info |
|-----|-----------|----------------|----------------|----------|--------|--|
| 112 | 11.470537 | 192.168.54.227 | 128.119.245.12 | HTTP | 535 | GET /wireshark-labs/HTTP-wireshark-file3.html HTTP/1.1 |
| 147 | 11.979622 | 128.119.245.12 | 192.168.54.227 | HTTP | 898 | HTTP/1.1 200 OK (text/html) |
| 152 | 12.069278 | 192.168.54.227 | 128.119.245.12 | HTTP | 481 | GET /favicon.ico HTTP/1.1 |
| 160 | 12.578124 | 128.119.245.12 | 192.168.54.227 | HTTP | 538 | HTTP/1.1 404 Not Found (text/html) |

Details for packet 147:

- Frame 147: 898 bytes on wire (7184 bits), 898 bytes captured (7184 bits) on interface \Device\NPF_{4EACCFB0-EED3-4ECC-9132-138CC0DD520A}, id 0
- Ethernet II, Src: 1a:df:ab:2f:ce:3e (1a:df:ab:2f:ce:3e), Dst: LiteonTe_3d:18:9f (94:08:53:3d:18:9f)
- Internet Protocol Version 4, Src: 128.119.245.12, Dst: 192.168.54.227
- Transmission Control Protocol, Src Port: 80, Dst Port: 55593, Seq: 4018, Ack: 482, Len: 844
- 4 Reassembled TCP Segments (4861 bytes): #141(1339), #142(1339), #144(1339), #147(844)
 - [Frame: 141, payload: 0-1338 (1339 bytes)]
 - [Frame: 142, payload: 1339-2677 (1339 bytes)]
 - [Frame: 144, payload: 2678-4016 (1339 bytes)]
 - [Frame: 147, payload: 4017-4860 (844 bytes)]
- [Segment count: 4]
- [Reassembled TCP length: 4861]
- [Reassembled TCP Data: 485454502f312e3120323030204f4b0d0a446174653a205765642c203132204f63742032...]
- Hypertext Transfer Protocol
- Line-based text data: text/html (98 lines)

Câu 12: Mã trạng thái và ý nghĩa nó trong HTTP response tương ứng với HTTP GET đầu tiên là gì?

- Mã trạng thái đầu tiên là : 401 Unauthorized
- Ý nghĩa: thông báo website vẫn tồn tại, hoạt động nhưng người dùng không thể truy cập vào do không được cấp quyền truy cập hay sở hữu quyền truy cập bao gồm tài khoản và mật khẩu không hợp lệ.

Câu 13: Khi trình duyệt gửi HTTP GET lần thứ 2, trường dữ liệu nào mới nào xuất hiện trong HTTP GET?

- Ở lần HTTP GET thứ 2 có thêm trường dữ liệu Authorization và Credentials.
- Trong đó Credentials chứa tài khoản và mật khẩu để xác nhận nếu muốn truy cập vào web

*Wi-Fi

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http

| No. | Time | Source | Destination | Protocol | Length | Info |
|-----|-----------|------------------------|------------------------|----------|--------|--|
| 39 | 9.351430 | 2401:d800:7aab:4def... | 2404:6800:4005:80f... | HTTP | 75 | Continuation |
| 75 | 11.055954 | 192.168.54.227 | 128.119.245.12 | HTTP | 541 | GET /wireshark-labs/protected_pages/HTTP-wireshark- HTTP/1.1 |
| 90 | 11.365497 | 128.119.245.12 | 192.168.54.227 | HTTP | 771 | HTTP/1.1 401 Unauthorized (text/html) |
| 185 | 34.891933 | 192.168.54.227 | 128.119.245.12 | HTTP | 626 | GET /wireshark-labs/protected_pages/HTTP-wireshark- HTTP/1.1 |
| 188 | 35.227763 | 128.119.245.12 | 192.168.54.227 | HTTP | 574 | HTTP/1.1 404 Not Found (text/html) |
| 193 | 35.727455 | 192.168.54.227 | 128.119.245.12 | HTTP | 487 | GET /favicon.ico HTTP/1.1 |
| 213 | 36.041150 | 128.119.245.12 | 192.168.54.227 | HTTP | 538 | HTTP/1.1 404 Not Found (text/html) |
| 275 | 39.342690 | 2401:d800:7aab:4def... | 2404:6800:4005:80f... | HTTP | 186 | GET /generate_204 HTTP/1.1 |
| 285 | 39.490648 | 2404:6800:4005:80f... | 2401:d800:7aab:4def... | HTTP | 201 | HTTP/1.1 204 No Content |

> Frame 185: 626 bytes on wire (5008 bits), 626 bytes captured (5008 bits) on interface \Device\NPF_{4EACCFB0-EED3-4ECC-9132-138CC00D520A}, id 0

> Ethernet II, Src: LiteonTe_3d:18:9f (94:08:53:3d:18:9f), Dst: 1a:df:ab:2f:ce:3e (1a:df:ab:2f:ce:3e)

> Internet Protocol Version 4, Src: 192.168.54.227, Dst: 128.119.245.12

> Transmission Control Protocol, Src Port: 55822, Dst Port: 80, Seq: 1, Ack: 1, Len: 572

▼ Hypertext Transfer Protocol

> GET /wireshark-labs/protected_pages/HTTP-wireshark- HTTP/1.1\r\n

Host: gaia.cs.umass.edu\r\n

Connection: keep-alive\r\n

Cache-Control: max-age=0\r\n

▼ Authorization: Basic d2lyZXNoYXJrLXN0dWlbnRzMzQmSlldHdvcms=\r\n

Credentials: wireshark-students:network

Upgrade-Insecure-Requests: 1\r\n

User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/106.0.0.0 Safari/537.36\r\n

Accept: text/html,application/xhtml+xml,application/xml;q=0.9,image/avif,image/webp,image/apng,*/*;q=0.8,application/signed-exchange;v=b3;q=0.9\r\n

Accept-Encoding: gzip, deflate\r\n

Accept-Language: vi,en-US;q=0.9,en;q=0.8\r\n

\r\n

[Full request URI: http://gaia.cs.umass.edu/wireshark-labs/protected_pages/HTTP-wireshark-]

[HTTP request 1/2]

[Response in frame: 188]

[Next request in frame: 193]

HẾT