

## Задание 1

Wireshark interface showing a packet capture of an HTTP GET request. The packet list shows two packets: packet 669 (GET /wireshark-labs/HTTP-wireshark-file1.html) and packet 678 (HTTP 200 OK). The packet details pane shows the structure of the GET request, including the Host, Connection, Upgrade-Insecure-Requests, User-Agent, Accept, Accept-Encoding, Accept-Language, and Full request URI. The packet bytes pane shows the raw data of the request line and headers.

No.	Time	Source	Destination	Protocol	Length	Info
669	2022-02-23 19:37:30.251443	192.168.0.101	128.119.245.12	HTTP	559	GET /wireshark-labs/HTTP-wireshark-file1.html HTTP/1.1
678	2022-02-23 19:37:30.386064	128.119.245.12	192.168.0.101	HTTP	540	HTTP/1.1 200 OK (text/html)

Frame 669: 559 bytes on wire (4472 bits), 559 bytes captured (4472 bits) on interface \Device\NPF\_{AFA188C0-2747-4BC5-815A-D8DE55689840}, id 0  
> Ethernet II, Src: IntelCor\_86:5b:64 (64:5d:86:86:5b:64), Dst: TP-Link\_4a:ce:99 (c0:06:c3:4a:ce:99)  
> Internet Protocol Version 4, Src: 192.168.0.101, Dst: 128.119.245.12  
> Transmission Control Protocol, Src Port: 53039, Dst Port: 80, Seq: 1, Ack: 1, Len: 505  
▼ Hypertext Transfer Protocol  
> GET /wireshark-labs/HTTP-wireshark-file1.html HTTP/1.1\r\nHost: gaia.cs.umass.edu\r\nConnection: keep-alive\r\nUpgrade-Insecure-Requests: 1\r\nUser-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/96.0.4664.174 YaBrowser/22.1.3.848 Yowser/2.5 Safari/537.36\r\nAccept: 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\nAccept-Encoding: gzip, deflate\r\nAccept-Language: ru,en;q=0.9\r\n\r\n[Full request URI: http://gaia.cs.umass.edu/wireshark-labs/HTTP-wireshark-file1.html]  
[HTTP request 1/1]

HTTP User-Agent header (http.user\_agent), 161 byte(s) | Пакеты: 11372 · Показаны: 2 (0.0%) | Профиль: Default

1. HTTP 1.1
2. Поддерживаются ru/en; Информация относительно пользователя содержится в полях User-Agent, Accept, Accept-Encoding, Accept-Language
3. мой ip - 192.168.0.101, ip сервера - 128.119.245.12
4. 404 и 200
5. Wed, 23 Feb 2022 06:59:01 GMT
6. 128 bytes

## Задание 2

Wireshark interface showing a packet capture of an HTTP GET request. The packet list shows four packets: packet 46 (GET /wireshark-labs/HTTP-wireshark-file2.html), packet 48 (HTTP 200 OK), packet 83 (GET /wireshark-labs/HTTP-wireshark-file2.html), and packet 88 (HTTP 304 Not Modified). The packet details pane shows the structure of the GET request, including the Host, Connection, Cache-Control, Upgrade-Insecure-Requests, User-Agent, Accept, Accept-Encoding, Accept-Language, If-None-Match, If-Modified-Since, and Full request URI. The packet bytes pane shows the raw data of the request line and headers.

No.	Time	Source	Destination	Protocol	Length	Info
46	2022-02-23 19:41:36.097329	192.168.0.101	128.119.245.12	HTTP	559	GET /wireshark-labs/HTTP-wireshark-file2.html HTTP/1.1
48	2022-02-23 19:41:36.227350	128.119.245.12	192.168.0.101	HTTP	784	HTTP/1.1 200 OK (text/html)
83	2022-02-23 19:41:40.042567	192.168.0.101	128.119.245.12	HTTP	671	GET /wireshark-labs/HTTP-wireshark-file2.html HTTP/1.1
88	2022-02-23 19:41:40.170148	128.119.245.12	192.168.0.101	HTTP	293	HTTP/1.1 304 Not Modified

Frame 46: 559 bytes on wire (4472 bits), 559 bytes captured (4472 bits) on interface \Device\NPF\_{AFA188C0-2747-4BC5-815A-D8DE55689840}, id 0  
> Ethernet II, Src: IntelCor\_86:5b:64 (64:5d:86:86:5b:64), Dst: TP-Link\_4a:ce:99 (c0:06:c3:4a:ce:99)  
> Internet Protocol Version 4, Src: 192.168.0.101, Dst: 128.119.245.12  
> Transmission Control Protocol, Src Port: 53039, Dst Port: 80, Seq: 1, Ack: 1, Len: 505  
▼ Hypertext Transfer Protocol  
> GET /wireshark-labs/HTTP-wireshark-file2.html HTTP/1.1\r\nHost: gaia.cs.umass.edu\r\nConnection: keep-alive\r\nCache-Control: max-age=0\r\nUpgrade-Insecure-Requests: 1\r\nUser-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/96.0.4664.174 YaBrowser/22.1.3.848 Yowser/2.5 Safari/537.36\r\nAccept: 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\nAccept-Encoding: gzip, deflate\r\nAccept-Language: ru,en;q=0.9\r\nIf-None-Match: "173-5d8aa0023ce62"\r\nIf-Modified-Since: Wed, 23 Feb 2022 06:59:01 GMT\r\n\r\n[Full request URI: http://gaia.cs.umass.edu/wireshark-labs/HTTP-wireshark-file2.html]  
[HTTP request 2/2]  
[Prev request in frame: 46]  
[Response in frame: 48]

Request line (http.request.line), 50 byte(s) | Пакеты: 2354 · Показаны: 4 (0.2%) | Профиль: Default

1. Нет, не вижу
2. Да, вернул. Нажать на строку "Line-based text data: text/html (10 lines)"
3. Да, вижу: If-Modified-Since: Wed, 23 Feb 2022 06:59:01 GMT
4. 304 Not Modified, не возвращает явно

## Задание 3

The screenshot shows a Wireshark capture of an HTTP transaction. The packet list shows two packets: packet 190 is a GET request to /wireshark-labs/HTTP-wireshark-file3.html, and packet 197 is the corresponding 200 OK response. The packet details pane for packet 197 shows the reassembled TCP segments and the HTTP response structure, including the status line 'HTTP/1.1 200 OK', date, server information, and last-modified timestamp. The packet bytes pane shows the raw data of the response.

No.	Time	Source	Destination	Protocol	Length	Info
190	2022-02-23 19:45:12.878169	192.168.0.101	128.119.245.12	HTTP	559	GET /wireshark-labs/HTTP-wireshark-file3.html HTTP/1.1
197	2022-02-23 19:45:13.083254	128.119.245.12	192.168.0.101	HTTP	535	HTTP/1.1 200 OK (text/html)

1. Один GET-запрос 190
2. 197
3. 4 сегмента
4. Нет

## Задание 4

The screenshot shows a Wireshark capture of multiple HTTP transactions. The packet list shows several packets, including GET requests for various files and 200 OK responses. The packet details pane for packet 197 shows the reassembled TCP segments and the HTTP response structure, including the status line 'HTTP/1.1 200 OK', date, server information, and last-modified timestamp. The packet bytes pane shows the raw data of the response.

No.	Time	Source	Destination	Protocol	Length	Info
197	2022-02-23 19:47:36.956281	192.168.0.101	128.119.245.12	HTTP	559	GET /wireshark-labs/HTTP-wireshark-file4.html HTTP/1.1
202	2022-02-23 19:47:37.092758	128.119.245.12	192.168.0.101	HTTP	1355	HTTP/1.1 200 OK (text/html)
203	2022-02-23 19:47:37.125642	192.168.0.101	128.119.245.12	HTTP	505	GET /pearson.png HTTP/1.1
207	2022-02-23 19:47:37.197079	192.168.0.101	178.79.137.164	HTTP	472	GET /8E_cover_small.jpg HTTP/1.1
212	2022-02-23 19:47:37.260069	128.119.245.12	192.168.0.101	HTTP	745	HTTP/1.1 200 OK (PNG)
215	2022-02-23 19:47:37.266517	178.79.137.164	192.168.0.101	HTTP	225	HTTP/1.1 301 Moved Permanently

1. 3 GET-запроса: gaia.cs.umass.edu, kurose.cslash.net
2. Последовательно, так как соответствующие сегменты TCP для первой картинки имели последовательные номера 210, 211, 212

## Задание 5

Беспроводная сеть

Файл Редактирование Просмотр Запуск Захват Анализ Статистика Телефония Беспроводной Инструменты Помощь

http

No.	Time	Source	Destination	Protocol	Length	Info
2964	2022-02-23 19:20:23.892612	192.168.0.101	128.119.245.12	HTTP	575	GET /wireshark-labs/protected_pages/HTTP-wireshark-file5.html
2982	2022-02-23 19:20:24.034917	128.119.245.12	192.168.0.101	HTTP	771	HTTP/1.1 401 Unauthorized (text/html)
5731	2022-02-23 19:20:48.976257	192.168.0.101	128.119.245.12	HTTP	660	GET /wireshark-labs/protected_pages/HTTP-wireshark-file5.html
5748	2022-02-23 19:20:49.106987	128.119.245.12	192.168.0.101	HTTP	544	HTTP/1.1 200 OK (text/html)

GET /wireshark-labs/protected\_pages/HTTP-wireshark-file5.html HTTP/1.1\r\n

[Expert Info (Chat/Sequence): GET /wireshark-labs/protected\_pages/HTTP-wireshark-file5.html HTTP/1.1\r\n]

Request Method: GET

Request URI: /wireshark-labs/protected\_pages/HTTP-wireshark-file5.html

Request Version: HTTP/1.1

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

Connection: keep-alive\r\n

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

Authorization: Basic d2lyZXNoYXJrLXN0dWRlbnRzOm5ldHdvcms=\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/96.0.4664.174 YaBrowser/22.1.3.848 Yowser/2.5 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: ru,en;q=0.9\r\n

\r\n

78 2d 61 67 65 3d 30 0d 0a 41 75 74 68 6f 72 69 x-age=0 Authori

7a 61 74 69 6f 6e 3a 20 42 61 73 69 63 20 64 32 ation: Basic d2

6c 79 5a 58 4e 6f 59 58 4a 72 4c 58 4e 30 64 57 lyZXNoYXJrLXN0dW

HTTP Authorization header (http.authorization), 59 byte(s) | Пакеты: 6359 · Показаны: 4 (0.1%) · Потеряно: 0 (0.0%) | Профиль: Default

1. 401 Unauthorized

2. Authorization: Basic d2lyZXNoYXJrLXN0dWRlbnRzOm5ldHdvcms