

МІНІСТЕРСТВО ОСВІТИ І НАУКИ УКРАЇНИ
НАВЧАЛЬНО-НАУКОВИЙ КОМПЛЕКС
«ІНСТИТУТ ПРИКЛАДНОГО СИСТЕМНОГО АНАЛІЗУ»
НАЦІОНАЛЬНОГО ТЕХНІЧНОГО УНІВЕРСИТЕТУ УКРАЇНИ
«КИЇВСЬКИЙ ПОЛІТЕХНІЧНИЙ ІНСТИТУТ ІМЕНІ ІГОРЯ
СІКОРСЬКОГО»
КАФЕДРА МАТЕМАТИЧНИХ МЕТОДІВ СИСТЕМНОГО АНАЛІЗУ

Лабораторна робота №1
з курсу «Комп'ютерні мережі»

Виконав: студент 3-го курсу

групи КА-73

Борисюк Я.А.

Прийняв: Кухарєв С.О.

Запит

No. Time Source Destination Protocol Length Info
102 10.488643 192.168.43.84 128.119.245.12 HTTP 653 GET /
wireshark-labs/INTRO-wireshark-file1.html HTTP/1.1
Frame 102: 653 bytes on wire (5224 bits), 653 bytes captured (5224 bits) on interface en0, id 0
Ethernet II, Src: Apple_78:53:31 (f0:18:98:78:53:31), Dst: 0a:c5:e1:0a:86:9d (0a:c5:e1:0a:86:9d)
Internet Protocol Version 4, Src: 192.168.43.84, Dst: 128.119.245.12
Transmission Control Protocol, Src Port: 63449, Dst Port: 80, Seq: 1, Ack: 1, Len: 587
Hypertext Transfer Protocol
GET /wireshark-labs/INTRO-wireshark-file1.html HTTP/1.1\r\n
[Expert Info (Chat/Sequence): GET /wireshark-labs/INTRO-wireshark-file1.html HTTP/
1.1\r\n]
[GET /wireshark-labs/INTRO-wireshark-file1.html HTTP/1.1\r\n]
[Severity level: Chat]
[Group: Sequence]
Request Method: GET
Request URI: /wireshark-labs/INTRO-wireshark-file1.html
Request Version: HTTP/1.1
Host: gaia.cs.umass.edu\r\n
Connection: keep-alive\r\n
Upgrade-Insecure-Requests: 1\r\n
User-Agent: Mozilla/5.0 (Macintosh; Intel Mac OS X 10_14_6) AppleWebKit/537.36 (KHTML, like
Gecko) Chrome/79.0.3945.117 Safari/537.36\r\n
Accept: text/html,application/xhtml+xml,application/xml;q=0.9,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: uk-UA,uk;q=0.9,ru;q=0.8,en-US;q=0.7,en;q=0.6\r\n
If-None-Match: "51-59f6105e8c5ac"\r\n
If-Modified-Since: Tue, 25 Feb 2020 06:59:03 GMT\r\n
\r\n
[Full request URI: http://gaia.cs.umass.edu/wireshark-labs/INTRO-wireshark-file1.html]
[HTTP request 1/1]
[Response in frame: 124]

Відповідь

No. Time Source Destination Protocol Length Info
124 12.498098 128.119.245.12 192.168.43.84 HTTP 305 HTTP/1.1 304
Not Modified
Frame 124: 305 bytes on wire (2440 bits), 305 bytes captured (2440 bits) on interface en0, id 0
Ethernet II, Src: 0a:c5:e1:0a:86:9d (0a:c5:e1:0a:86:9d), Dst: Apple_78:53:31 (f0:18:98:78:53:31)
Internet Protocol Version 4, Src: 128.119.245.12, Dst: 192.168.43.84
Transmission Control Protocol, Src Port: 80, Dst Port: 63449, Seq: 1, Ack: 588, Len: 239
Hypertext Transfer Protocol
HTTP/1.1 304 Not Modified\r\n
[Expert Info (Chat/Sequence): HTTP/1.1 304 Not Modified\r\n]
[HTTP/1.1 304 Not Modified\r\n]
[Severity level: Chat]
[Group: Sequence]
Response Version: HTTP/1.1
Status Code: 304
[Status Code Description: Not Modified]
Response Phrase: Not Modified
Date: Tue, 25 Feb 2020 09:41:27 GMT\r\n
Server: Apache/2.4.6 (CentOS) OpenSSL/1.0.2k-fips PHP/5.4.16 mod_perl/2.0.11 Perl/
v5.16.3\r\n
Connection: Keep-Alive\r\n
Keep-Alive: timeout=5, max=100\r\n

ETag: "51-59f6105e8c5ac"\r\n

\r\n

[HTTP response 1/1]

[Time since request: 2.009455000 seconds]

[Request in frame: 102]

[Request URI: http://gaia.cs.umass.edu/wireshark-labs/INTRO-wireshark-file1.html]

Контрольні запитання

1. TLSv1.2, TCP, DNS, ARP, HTTP, MDNS
2. HTTP
3. 2.009455
4. Запит:
 - a. Вихідна: 192.168.43.84
 - b. Цільова: 128.119.245.12
2. Відповідь:
 - a. Вихідна: 128.119.245.12
 - b. Цільова: 192.168.43.84
3. 5.GET /wireshark-labs/INTRO-wireshark-file1.html HTTP/1.1\r\n
5. HTTP/1.1 304 Not Modified\r\n