



```
Command Prompt
Connection-specific DNS Suffix . :
Wireless LAN adapter Local Area Connection* 1:
    Media State . . . . . : Media disconnected
    Connection-specific DNS Suffix . :
Wireless LAN adapter Local Area Connection* 2:
    Media State . . . . . : Media disconnected
    Connection-specific DNS Suffix . :
Wireless LAN adapter Wi-Fi:
    Connection-specific DNS Suffix . : hsd1.va.comcast.net
    IPv6 Address. . . . . : 2601:140:8f00:8c0::27c8
    IPv6 Address. . . . . : 2601:140:8f00:8c0:499a:f6d6:8fa8:97ca
    Temporary IPv6 Address. . . . . : 2601:140:8f00:8c0:35b7:6eda:172e:3645
    Link-local IPv6 Address . . . . . : fe80::499a:f6d6:8fa8:97ca%6
    IPv4 Address. . . . . : 10.0.0.170
    Subnet Mask . . . . . : 255.255.255.0
    Default Gateway . . . . . : fe80::d6ab:82ff:fe36:5e42%6
                                10.0.0.1
Ethernet adapter Bluetooth Network Connection 2:
    Media State . . . . . : Media disconnected
    Connection-specific DNS Suffix . :
C:\Users\Guamaral>
```

- [labs/HTTP-wireshark-file1.html](#)
5. Stop Wireshark packet capture.
- (For each of these questions, take a screenshot of Wireshark, and attach it to your answer) - Questions without Full Screenshot will not be graded. A lab submission template is available on canvas. Your screenshot should indicate the time and date on your computer.
  - Include a terminal screenshot showing computer IP address on the front page before Question 1, and a full PRINT of the HTTP OK message as the last page.

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Questions:

1. Is your browser running HTTP version 1.0 or 1.1?
2. When was the HTML file that you are retrieving last modified at the server?
3. What is the IP address of the gaia.cs.umass.edu server?
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5. When was the HTML file that you are retrieving created at the server?

Don't forget to save your Wireshark Lab file.

#### Instructions:

1. Part 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).
3. Wait a bit more than one minute (we'll see why shortly), and then begin Wireshark packet capture.
4. Enter the following to your browser: <http://gaia.cs.umass.edu/wireshark-labs/HTTP-wireshark-file1.html>
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\*Wi-Fi

File Edit View Go Capture Analyze Statistics Telephony Wireless Tools Help

http

No.	Time	Source	Destination	Protocol	Length	Info
64	12:54:32.221894	10.0.0.170	128.119.245.12	HTTP	548	GET /wireshark-labs/HTTP-wireshark-file1.html HTTP/1.1
69	12:54:32.254823	128.119.245.12	10.0.0.170	HTTP	540	HTTP/1.1 200 OK (text/html)

Question #1

Ethernet II, Src: LiteonTe\_08:af:03 (ac:e0:10:08:af:03), Dst: ArrisGro\_36:5e:42 (d4:ab:82:36:5e:42)

Internet Protocol Version 4, Src: 10.0.0.170, Dst: 128.119.245.12

Transmission Control Protocol, Src Port: 50190, Dst Port: 80, Seq: 1, Ack: 1, Len: 494

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

User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/64.0.3282.140 Safari/537.36

Accept-Language: en-US\r\n

Accept: text/html,application/xhtml+xml,application/xml;q=0.9,\*/\*;q=0.8\r\n

Upgrade-Insecure-Requests: 1\r\n

Accept-Encoding: gzip, deflate\r\n

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

If-Modified-Since: Sat, 09 Feb 2019 06:59:01 GMT\r\n

TE: deflate\r\n

0000 d4 ab 82 36 5e 42 ac e0 10 08 af 03 08 00 45 00 ...6^B...E-

0010 02 16 02 51 40 00 80 06 76 63 0a 00 00 aa 80 77 ...Q@...vc...w

0020 f5 0c c4 0e 00 50 8c 41 3d 62 78 ab 1b e2 50 18 ...P^A=bx...P

0030 04 00 5d d8 00 00 47 45 54 20 2f 77 69 72 65 73 ...]...GE T /wires

wireshark\_233062C9-13AC-4F2E-9AF4-0C2DE92B4EE4\_20190210125357\_a08324.pcapng

Packets: 83 · Displayed: 2 (2.4%) · Dropped: 0 (0.0%) · Profile: Default

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http

No.	Time	Source	Destination	Protocol	Length	Info
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Question #2

Ethernet II, Src: AmrisGro\_36:5e:42 (d4:ab:82:36:5e:42), Dst: LiteonTe\_08:af:03 (ac:e0:10:08:af:03)

Internet Protocol Version 4, Src: 128.119.245.12, Dst: 10.0.0.170

Transmission Control Protocol, Src Port: 80, Dst Port: 50190, Seq: 1, Ack: 495, Len: 486

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

Status Code: 200

[Status Code Description: OK]

Response Phrase: OK

Date: Sun, 10 Feb 2019 17:54:28 GMT\r\n

Server: Apache/2.4.6 (CentOS) OpenSSL/1.0.2k-fips PHP/5.4.16 mod\_perl/2.0.10 Perl/v5.16.3\r\n

Last-Modified: Sun, 10 Feb 2019 06:59:01 GMT\r\n

Etag: "80-58184ba1f23f8"\r\n

Accept-Ranges: bytes\r\n

Content-Length: 128\r\n

Keep-Alive: timeout=5, max=100\r\n

Connection: Keep-Alive

0120 74 65 73 0d 0a 43 6f 6e 74 65 6e 74 2d 4c 65 6e tes..Con tent-Len

0130 67 74 68 3a 20 31 32 38 0d 0a 4b 65 65 70 2d 41 gth: 128 ..Keep-A

0140 6c 69 76 65 3a 20 74 69 6d 65 6f 75 74 3d 35 2c live: ti meout=5,

0150 20 6d 61 78 3d 31 30 30 0d 0a 43 6f 6e 6e 65 63 max=100 ..Connec

HTTP Content-Length header (http.content\_length\_header), 21 bytes

Packets: 83 · Displayed: 2 (2.4%) · Dropped: 0 (0.0%) | Profile: Default

#### Instructions:

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\*Wi-Fi

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http

No.	Time	Source	Destination	Protocol	Length	Info
64	12:54:32.221894	10.0.0.170	128.119.245.12	HTTP	548	GET /wireshark-labs/HTTP-wireshark-file1.html HTTP/1.1
69	12:54:32.254823	128.119.245.12	10.0.0.170	HTTP	540	HTTP/1.1 200 OK (text/html)

Question #3

Ethernet II, Src: ArrisGro\_36:5e:42 (d4:ab:82:36:5e:42), Dst: LiteonTe\_08:af:03 (ac:e0:10:08:af:03)

Internet Protocol Version 4, Src: 128.119.245.12, Dst: 10.0.0.170

Transmission Control Protocol, Src Port: 80, Dst Port: 50190, Seq: 1, Ack: 495, Len: 486

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

Status Code: 200

[Status Code Description: OK]

Response Phrase: OK

Date: Sun, 10 Feb 2019 17:54:28 GMT\r\n

Server: Apache/2.4.6 (CentOS) OpenSSL/1.0.2k-fips PHP/5.4.16 mod\_perl/2.0.10 Perl/v5.16.3\r\n

Last-Modified: Sun, 10 Feb 2019 06:59:01 GMT\r\n

Etag: "80-58184ba1f23f8"\r\n

Accept-Ranges: bytes\r\n

Content-Length: 128\r\n

Keep-Alive: timeout=5, max=100\r\n

Connection: Keep-Alive

0120 74 65 73 0d 0a 43 6f 6e 74 65 6e 74 2d 4c 65 6e tes..Con tent-Len

0130 67 74 68 3a 20 31 32 38 0d 0a 4b 65 65 70 2d 41 gth: 128 ..Keep-A

0140 6c 69 76 65 3a 20 74 69 6d 65 6f 75 74 3d 35 2c live: ti meout=5,

0150 20 6d 61 78 3d 31 30 30 0d 0a 43 6f 6e 6e 65 63 max=100 ..Connec

HTTP Content-Length header (http.content\_length\_header), 21 bytes

Packets: 83 · Displayed: 2 (2.4%) · Dropped: 0 (0.0%) Profile: Default

#### Instructions:

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http

No.	Time	Source	Destination	Protocol	Length	Info
64	12:54:32.221894	10.0.0.170	128.119.245.12	HTTP	548	GET /wireshark-labs/HTTP-wireshark-file1.html HTTP/1.1
69	12:54:32.254823	128.119.245.12	10.0.0.170	HTTP	540	HTTP/1.1 200 OK (text/html)

Question #4

> Frame 64: 548 bytes on wire (4384 bits), 548 bytes captured (4384 bits) on interface 0  
> Ethernet II, Src: LiteonTe\_08:af:03 (ac:e0:10:08:af:03), Dst: ArrisGro\_36:5e:42 (d4:ab:82:36:5e:42)  
> Internet Protocol Version 4, Src: 10.0.0.170, Dst: 128.119.245.12  
> Transmission Control Protocol, Src Port: 50190, Dst Port: 80, Seq: 1, Ack: 1, Len: 494  
> Hypertext Transfer Protocol  
> GET /wireshark-labs/HTTP-wireshark-file1.html HTTP/1.1\r\n  
User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/64.0.3282.140 Safari/537.36\r\nAccept-Language: en-US\r\nAccept: text/html,application/xhtml+xml,application/xml;q=0.9,\*/\*;q=0.8\r\nUpgrade-Insecure-Requests: 1\r\nAccept-Encoding: gzip, deflate\r\nHost: gaia.cs.umass.edu\r\nIf-Modified-Since: Sat, 09 Feb 2019 06:59:01 GMT\r\nIf-None-Match: "80-581709c493f8f"\r\nConnection: Keep-Alive\r\n\r\n

0000 d4 ab 82 36 5e 42 ac e0 10 08 af 03 08 00 45 00 ...6AB...E-  
0010 02 16 02 51 40 00 80 06 76 63 0a 00 00 aa 80 77 ...Q@...vc...w  
0020 f5 0c c4 0e 00 50 8c 41 3d 62 78 ab 1b e2 50 18 ...P.A=bx...P-  
0030 04 00 5d d8 00 00 47 45 54 20 2f 77 69 72 65 73 ...]...GE T /wires

wireshark\_233062C9-13AC-4F2E-9AF4-0C2DE92B4EE4\_20190210125357\_a08324.pcapng

Packets: 83 · Displayed: 2 (2.4%) · Dropped: 0 (0.0%) · Profile: Default



lab2.pdf

file:///C:/Users/Guamaral/Downloads/lab2.pdf

Find on page

Enter text to search

No results

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>

Options

Instructions:

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No.	Time	Source	Destination	Protocol	Length	Info
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69	12:54:32.254823	128.119.245.12	10.0.0.170	HTTP	540	HTTP/1.1 200 OK (text/html)

Question #5 answer cannot be found since there are Last-Modified date in the HTTP

<

>

> Frame 69: 540 bytes on wire (4320 bits), 540 bytes captured (4320 bits) on interface 0

> Ethernet II, Src: ArrisGro\_36:5e:42 (d4:ab:82:36:5e:42), Dst: LiteonTe\_08:af:03 (ac:e0:10:08:af:03)

> Internet Protocol Version 4, Src: 128.119.245.12, Dst: 10.0.0.170

> Transmission Control Protocol, Src Port: 80, Dst Port: 50190, Seq: 1, Ack: 495, Len: 486

> Hypertext Transfer Protocol

> HTTP/1.1 200 OK\r\n

> Date: Sun, 10 Feb 2019 17:54:28 GMT\r\n

> Server: Apache/2.4.6 (CentOS) OpenSSL/1.0.2k-fips PHP/5.4.16 mod\_perl/2.0.10 Perl/v5.16.3\r\n

> Last-Modified: Sun, 10 Feb 2019 06:59:01 GMT\r\n

> ETag: "80-58184ba1f23f8"\r\n

> Accept-Ranges: bytes\r\n

> Content-Length: 128\r\n

> Keep-Alive: timeout=5, max=100\r\n

> Connection: Keep-Alive\r\n

> Content-Type: text/html; charset=UTF-8\r\n

> \r\n

> [HTTP response 1/1]

> [Time since request: 0.03300000 seconds]

0000 ac e0 10 08 af 03 d4 ab 82 36 5e 42 08 00 45 00 .....6^B...E...

0010 02 0e d8 83 40 00 2f 06 f1 38 80 77 f5 0c 0a 00 ...w...8-w...

0020 00 aa 00 50 c4 0e 78 ab 1b e2 8c 41 3f 50 50 18 ...P...x...A?PP...

0030 00 ed 7c 75 00 00 48 54 54 50 2f 31 2e 31 20 32 ...u...HT TP/1.1 2

wireshark\_233062C9-13AC-4F2E-9AF4-0C2DE92B4EE4\_20190210125357\_a08324.pcapng

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Profile: Default

