

1. Is your browser running HTTP version 1.0 or 1.1?

Answer: HTTP version 1.1

The image shows a Wireshark packet capture window titled "Wi-Fi". The packet list pane displays several packets, with packet 1564 selected. The packet details pane shows the structure of the selected packet, which is an HTTP GET request. The request line is "GET /wireshark-labs/HTTP-wireshark-file1.html HTTP/1.1\r\n". The status bar at the bottom indicates "Hypertext Transfer Protocol: Protocol" and "Packets: 1679 · Displayed: 10 (0.6%) · Dropped: 0 (0.0%)".

Wireshark packet capture window showing an HTTP 1.1 GET request. The packet list pane shows the selected packet (No. 1564) and its details. The packet details pane shows the Hypertext Transfer Protocol section, which includes the request line: GET /wireshark-labs/HTTP-wireshark-file1.html HTTP/1.1\r\n. The status bar at the bottom indicates the protocol is Hypertext Transfer Protocol: Protocol.

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

Answer: Wed, 12 Sept 2018 05:59:01 GMT

The image shows a Wireshark network traffic capture. The top pane displays a list of captured packets. Packet 1564 is selected, showing an HTTP GET request for the file `/wireshark-labs/HTTP-wireshark-file1.html` from source IP `192.168.1.169` to destination IP `128.119.245.12`. The packet details pane shows the response version as HTTP/1.1, status code 200 OK, and the response phrase OK. The date is Wed, 12 Sep 2018 18:12:22 GMT. The server is Apache/2.4.6 (CentOS) OpenSSL/1.0.2k-fips PHP/5.4.16 mod_perl/2.0.10 Perl/v5.16.3. The last-modified header is highlighted with a red circle, showing `Wed, 12 Sep 2018 05:59:01 GMT`. The bottom pane shows the raw packet data in hexadecimal and ASCII.

No.	Time	Source	Destination	Protocol	Length	Info
1491	1536775941.078654	192.168.1.169	192.168.1.154	HTTP/...	812	POST /wsd/print HTTP/1.1
1494	1536775941.189713	192.168.1.154	192.168.1.169	HTTP/...	1439	HTTP/1.1 200 OK
1504	1536775941.198322	192.168.1.169	192.168.1.154	HTTP/...	938	POST /wsd/print HTTP/1.1
1510	1536775941.325814	192.168.1.154	192.168.1.169	HTTP/...	675	HTTP/1.1 200 OK
1564	1536775943.681654	192.168.1.169	128.119.245.12	HTTP	448	GET /wireshark-labs/HTTP-wireshark-file1.html HTTP/1.1
1567	1536775943.701364	128.119.245.12	192.168.1.169	HTTP	540	HTTP/1.1 200 OK (text/html)
1665	1536775947.174490	81.161.59.87	192.168.1.169	HTTP	333	[TCP Previous segment not captured] HTTP/1.1 200 OK (application/json)
1666	1536775947.175442	192.168.1.169	81.161.59.87	HTTP	149	[TCP ACKed unseen segment] GET /poll?push_id=54548892-f0c1-41d1-b633-2edc9b9cc42d H...

[Group: Sequence]
Response Version: HTTP/1.1
Status Code: 200
[Status Code Description: OK]
Response Phrase: OK
Date: Wed, 12 Sep 2018 18:12:22 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: Wed, 12 Sep 2018 05:59:01 GMT\r\n
ETag: "80-575a640813f22"\r\n
Accept-Ranges: bytes\r\n

0000 44 03 2c fb ab 3f 48 5d 36 33 7d 4f 08 0c 45 00 D...?H] 63}O...E...
0010 02 0e fc 32 40 00 35 06 0f e2 80 77 f5 0c c0 a8 ...2@5...w...
0020 01 a9 00 50 e6 25 e2 9a 18 57 ff 41 96 f0 50 18 ...P%...W-A...P...
0030 00 ed a0 de 00 00 48 54 54 50 2f 31 2e 31 20 32HT TP/1.1 2
0040 30 30 20 4f 4b 0d 0a 44 61 74 65 3a 20 57 65 64 00 OK...D ate: Wed
0050 2c 20 31 32 20 53 65 70 20 32 30 31 38 20 31 38 , 12 Sep 2018 18
0060 3a 31 32 3a 32 32 20 47 4d 54 0d 0a 53 65 72 76 :12:22 G MT...Serv
0070 65 72 3a 20 41 70 61 63 68 65 2f 32 2e 34 2e 36 er: Apac he/2.4.6
0080 20 28 43 65 6e 74 4f 53 29 20 4f 70 65 6e 53 53 (CentOS) OpenSS
0090 4c 2f 31 2e 30 2e 32 6b 2d 66 69 70 73 20 50 48 L/1.0.2k -fips PH
00a0 50 2f 35 2e 34 2e 31 36 20 6d 6f 64 5f 70 65 72 P/5.4.16 mod_per

Type (eth.type), 2 bytes | Packets: 1679 · Displayed: 10 (0.6%) · Dropped: 0 (0.0%) | Profile: Default

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3. What is the IP address of your computer?

Answer: 192.168.1.169

The image shows a Wireshark network traffic capture. The top pane displays a list of captured packets. Packet 1564 is selected, showing an HTTP GET request to /wireshark-labs/HTTP-wireshark-file1.html. The packet details pane shows the source IP as 192.168.1.169 and the destination IP as 128.119.245.12. The packet bytes pane shows the raw data of the HTTP request, including the GET method, the URL, and the User-Agent header.

No.	Time	Source	Destination	Protocol	Length	Info
1491	1536775941.078654	192.168.1.169	192.168.1.154	HTTP/...	812	POST /wsd/print HTTP/1.1
1494	1536775941.189713	192.168.1.154	192.168.1.169	HTTP/...	1439	HTTP/1.1 200 OK
1504	1536775941.198322	192.168.1.169	192.168.1.154	HTTP/...	938	POST /wsd/print HTTP/1.1
1510	1536775941.325814	192.168.1.154	192.168.1.169	HTTP/...	675	HTTP/1.1 200 OK
1564	1536775943.681654	192.168.1.169	128.119.245.12	HTTP	448	GET /wireshark-labs/HTTP-wireshark-file1.html HTTP/1.1
1567	1536775943.701364	128.119.245.12	192.168.1.169	HTTP	540	HTTP/1.1 200 OK (text/html)
1665	1536775947.174490	81.161.59.87	192.168.1.169	HTTP	333	[TCP Previous segment not captured] HTTP/1.1 200 OK (application/json)
1666	1536775947.175442	192.168.1.169	81.161.59.87	HTTP	149	[TCP ACKed unseen segment] GET /poll?push_id=54548892-f0c1-41d1-b633-2edc9b9cc42d H...

Source: IntelCor_fb:ab:3f (44:03:2c:fb:ab:3f)
Address: IntelCor_fb:ab:3f (44:03:2c:fb:ab:3f)
Type: IPv4 (0x0800)
> Internet Protocol Version 4, Src: 192.168.1.169, Dst: 128.119.245.12
Transmission Control Protocol, Src Port: 58017, Dst Port: 80, Seq: 1, Ack: 1, Len: 394
Source Port: 58017

0000 48 5d 36 33 7d 4f 44 03 2c fb ab 3f 08 00 45 00 H]63}OD...?E:
0010 01 b2 4c b3 40 00 80 06 74 bd c0 a8 01 a9 80 77 ..L.@...t...w
0020 f5 0c e6 25 00 50 ff 41 95 66 e2 9a 18 57 50 18 ...%P-A.f...WP
0030 80 00 f7 aa 00 00 47 45 54 20 2f 77 69 72 65 73GE T /wires
0040 68 61 72 6b 2d 6c 61 62 73 2f 48 54 54 50 2d 77 hark-lab s/HTTP-w
0050 69 72 65 73 68 61 72 6b 2d 66 69 6c 65 31 2e 68 ireshark -file1.h
0060 74 6d 6c 20 48 54 54 50 2f 31 2e 31 0d 0a 41 63 tml HTTP /1.1 Ac
0070 63 65 70 74 3a 20 74 65 78 74 2f 68 74 6d 6c 2c cept: te xt/html,
0080 20 61 70 70 6c 69 63 61 74 69 6f 6e 2f 78 68 74 applica tion/xht
0090 6d 6c 2b 78 6d 6c 2c 20 69 6d 61 67 65 2f 6a 78 ml+xml, image/jx
00a0 72 2c 20 2a 2f 2a 0d 0a 41 63 63 65 70 74 2d 4c r, /*... Accept-L

4. Of the gaia.cs.umass.edu server?

Answer: 128.119.245.12

The image shows a Wireshark network traffic capture. The top pane displays a list of captured packets. The middle pane shows the details of the selected packet (No. 1564), and the bottom pane shows the raw packet data in hexadecimal and ASCII.

No.	Time	Source	Destination	Protocol	Length	Info
1491	1536775941.078654	192.168.1.169	192.168.1.154	HTTP/...	812	POST /wsd/print HTTP/1.1
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1504	1536775941.198322	192.168.1.169	192.168.1.154	HTTP/...	938	POST /wsd/print HTTP/1.1
1510	1536775941.325814	192.168.1.154	192.168.1.169	HTTP/...	675	HTTP/1.1 200 OK
1564	1536775943.681654	192.168.1.169	128.119.245.12	HTTP	448	GET /wireshark-labs/HTTP-wireshark-file1.html HTTP/1.1
1567	1536775943.701364	128.119.245.12	192.168.1.169	HTTP	540	HTTP/1.1 200 OK (text/html)
1665	1536775947.174490	81.161.59.87	192.168.1.169	HTTP	333	[TCP Previous segment not captured] HTTP/1.1 200 OK (application/json)
1666	1536775947.175442	192.168.1.169	81.161.59.87	HTTP	149	[TCP ACKed unseen segment] GET /poll?push_id=54548892-f0c1-41d1-b633-2edc9b9cc42d H...

The details pane for packet 1564 shows the following information:

- Source: IntelCor_fb:ab:3f (44:03:2c:fb:ab:3f)
- Address: IntelCor_fb:ab:3f (44:03:2c:fb:ab:3f)
- Type: IPv4 (0x0800)
- Internet Protocol Version 4, Src: 192.168.1.169, Dst: 128.119.245.12
- Transmission Control Protocol, Src Port: 58917, Dst Port: 80, Seq: 1, Ack: 1, Len: 394

The raw packet data pane shows the following hexadecimal and ASCII data:

```

0000 48 5d 36 33 7d 4f 44 03 2c fb ab 3f 08 00 45 00  HJ63}OD: ,...E
0010 01 b2 4c b3 40 00 80 06 74 bd c0 a8 01 a9 80 77  ..L@...t...w
0020 f5 0c e6 25 00 50 ff 41 95 66 e2 9a 18 57 50 18  ...%P.A-f...WP
0030 80 00 f7 aa 00 00 47 45 54 20 2f 77 69 72 65 73  ....GE T/wires
0040 68 61 72 6b 2d 6c 61 62 73 2f 48 54 54 50 2d 77  hark-lab s/HTTP-w
0050 69 72 65 73 68 61 72 6b 2d 66 69 6c 65 31 2e 68  ireshark -file1.h
0060 74 6d 6c 20 48 54 54 50 2f 31 2e 31 0d 0a 41 63  tml HTTP /1.1-Ac
0070 63 65 70 74 3a 20 74 65 78 74 2f 68 74 6d 6c 2c  cept: te xt/html,
0080 20 61 70 70 6c 69 63 61 74 69 6f 6e 2f 78 68 74  applica tion/xht
0090 6d 6c 2b 78 6d 6c 2c 20 69 6d 61 67 65 2f 6a 78  ml+xml, image/jx
00a0 72 2c 20 2a 2f 2a 0d 0a 41 63 63 65 70 74 2d 4c  r, /*... Accept-L
  
```

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

Answer: English, Romanian

Wi-Fi

File Edit View Go Capture Analyze Statistics Telephony Wireless Tools Help

http

No.	Time	Source	Destination	Protocol	Length	Info
1491	1536775941.078654	192.168.1.169	192.168.1.154	HTTP/...	812	POST /wsd/print HTTP/1.1
1494	1536775941.189713	192.168.1.154	192.168.1.169	HTTP/...	1439	HTTP/1.1 200 OK
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1564	1536775943.681654	192.168.1.169	128.119.245.12	HTTP	448	GET /wireshark-labs/HTTP-wireshark-file1.html HTTP/1.1
1567	1536775943.701364	128.119.245.12	192.168.1.169	HTTP	540	HTTP/1.1 200 OK (text/html)
1665	1536775947.174490	81.161.59.87	192.168.1.169	HTTP	333	[TCP Previous segment not captured] HTTP/1.1 200 OK (application/json)
1666	1536775947.175442	192.168.1.169	81.161.59.87	HTTP	149	[TCP ACKed unseen segment] GET /poll?push_id=54548892-f0c1-41d1-b633-2edcbb9cc42d H...

> Frame 1564: 448 bytes on wire (3584 bits), 448 bytes captured (3584 bits) on interface 0

> Ethernet II, Src: IntelCor_fb:ab:3f (44:03:2c:fb:ab:3f), Dst: Verizon_33:7d:4f (48:5d:36:33:7d:4f)

> Internet Protocol Version 4, Src: 192.168.1.169, Dst: 128.119.245.12

> Transmission Control Protocol, Src Port: 58917, Dst Port: 80, Seq: 1, Ack: 1, Len: 394

> Hypertext Transfer Protocol

> GET /wireshark-labs/HTTP-wireshark-file1.html HTTP/1.1\r\n

Accept: text/html, application/xhtml+xml, image/jxr, */*\r\n

Accept-Language: en-US,en;q=0.8,ro-RO;q=0.5,ro;q=0.3\r\n

User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/52.0.2743.116 Safari/537.36 Edge/15.15063\r\n

Accept-Encoding: gzip, deflate\r\n

0000 48 5d 36 33 7d 4f 44 03 2c fb ab 3f 08 00 45 00 HJ63}OD-...?..E-

0010 01 b2 4c b3 40 00 80 06 74 bd c0 a8 01 a9 80 77 ..L@...t.....w

0020 f5 0c e6 25 00 50 ff 41 95 66 e2 9a 18 57 50 18 ...%P.A.f...WP-

0030 80 00 f7 aa 00 00 47 45 54 20 2f 77 69 72 65 73GE T /wires

0040 68 61 72 6b 2d 6c 61 62 73 2f 48 54 54 50 2d 77 hark-lab s/HTTP-w

0050 69 72 65 73 68 61 72 6b 2d 66 69 6c 65 31 2e 68 ireshark -file1.h

0060 74 6d 6c 20 48 54 54 50 2f 31 2e 31 0d 0a 41 63 tml HTTP /1.1-Ac

0070 63 65 70 74 3a 20 74 65 78 74 2f 68 74 6d 6c 2c cept: te xt/html,

0080 20 61 70 70 6c 69 63 61 74 69 6f 6e 2f 78 68 74 applica tion/xht

0090 6d 6c 2b 78 6d 6c 2c 20 69 6d 61 67 65 2f 6a 78 ml+xml, image/jx

00a0 72 2c 20 2a 2f 2a 0d 0a 41 63 63 65 70 74 2d 4c r, */*... Accept-L

Hypertext Transfer Protocol: Protocol

Packets: 1679 · Displayed: 10 (0.6%) · Dropped: 0 (0.0%) Profile: Default

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

Answer: Wed, 12 Sept 2018 05:59:01 GMT

Wi-Fi

File Edit View Go Capture Analyze Statistics Telephony Wireless Tools Help

http

No.	Time	Source	Destination	Protocol	Length	Info
1491	1536775941.078654	192.168.1.169	192.168.1.154	HTTP	812	POST /wsd/print HTTP/1.1
1494	1536775941.189713	192.168.1.154	192.168.1.169	HTTP	1439	HTTP/1.1 200 OK
1504	1536775941.198322	192.168.1.169	192.168.1.154	HTTP	938	POST /wsd/print HTTP/1.1
1510	1536775941.325814	192.168.1.154	192.168.1.169	HTTP	675	HTTP/1.1 200 OK
1564	1536775943.681654	192.168.1.169	128.119.245.12	HTTP	448	GET /wireshark-labs/HTTP-wireshark-file1.html HTTP/1.1
1567	1536775943.701364	128.119.245.12	192.168.1.169	HTTP	540	HTTP/1.1 200 OK (text/html)
1665	1536775947.174490	81.161.59.87	192.168.1.169	HTTP	333	[TCP Previous segment not captured] HTTP/1.1 200 OK (application/json)
1666	1536775947.175442	192.168.1.169	81.161.59.87	HTTP	149	[TCP ACKed unseen segment] GET /poll?push_id=54548892-f0c1-41d1-b633-2edc9b9cc42d H...

[Group: Sequence]

Response Version: HTTP/1.1

Status Code: 200

[Status Code Description: OK]

Response Phrase: OK

Date: Wed, 12 Sep 2018 18:12:22 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: Wed, 12 Sep 2018 05:59:01 GMT\r\n

ETag: "80-575a640813f22"\r\n

Accept-Ranges: bytes\r\n

0000 44 03 2c fb ab 3f 48 5d 36 33 7d 4f 08 00 45 00 D...?H] 63}O...E-
0010 02 0e fc 32 40 00 35 06 0f e2 80 77 f5 0c c0 a8 ...2@5...w...
0020 01 a9 00 50 e6 25 e2 9a 18 57 ff 41 96 f0 50 18 ...P%...W-A-P-
0030 00 ed a0 de 00 00 48 54 54 50 2f 31 2e 31 20 32HT P/1.1 2
0040 30 30 20 4f 4b 0d 0a 44 61 74 65 3a 20 57 65 64 00 OK...D ate: Wed
0050 2c 20 31 32 20 53 65 70 20 32 30 31 38 20 31 38 , 12 Sep 2018 18
0060 3a 31 32 3a 32 32 20 47 4d 54 0d 0a 53 65 72 76 :12:22 G MT...Serv
0070 65 72 3a 20 41 70 61 63 68 65 2f 32 2e 34 2e 36 er: Apac he/2.4.6
0080 20 28 43 65 6e 74 4f 53 29 20 4f 70 65 6e 53 53 (CentOS) OpenSS
0090 4c 2f 31 2e 30 2e 32 6b 2d 66 69 70 73 20 50 48 L/1.0.2k -fips PH
00a0 50 2f 35 2e 34 2e 31 36 20 6d 6f 64 5f 70 65 72 P/5.4.16 mod_per

Type (eth.type), 2 bytes

Packets: 1679 · Displayed: 10 (0.6%) · Dropped: 0 (0.0%)

Profile: Default

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