

NIM : 21/472698/PA/20322

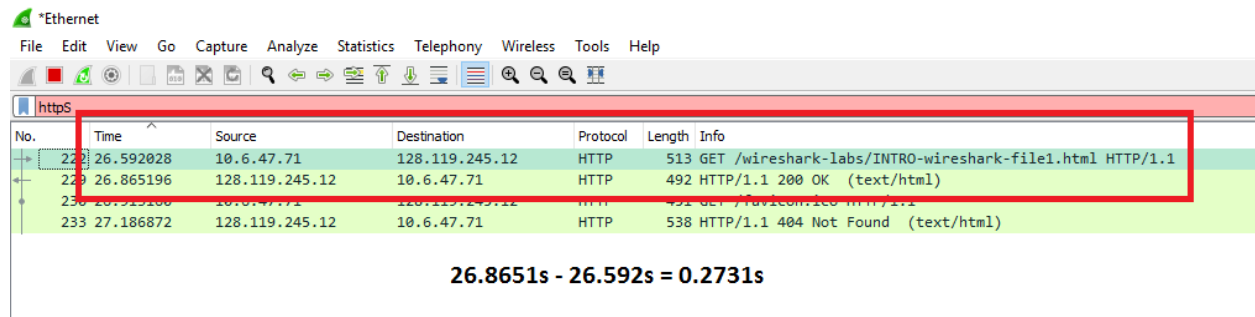
- ## HTTP

[illegible]

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2. How long did it take from when the HTTP GET message was sent until the HTTP OK reply was received? (By default, the value of the Time column in the packet-listing window is the amount of time, in seconds, since Wireshark tracing began. (If you want to display the Time field in time-of-day format, select the Wireshark View pull down menu, then select Time Display Format, then select Time-of-day.)

Answer : 0.2731 Second



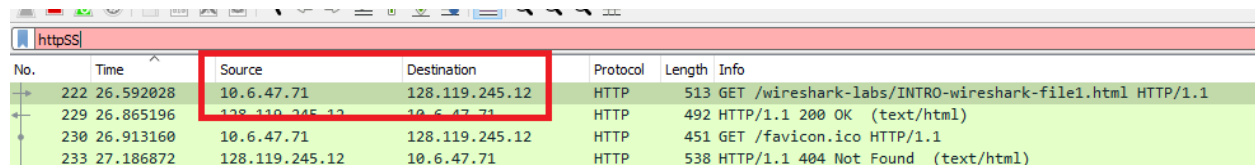
The screenshot shows the Wireshark interface with a packet capture of an HTTP transaction. The packet list table is as follows:

No.	Time	Source	Destination	Protocol	Length	Info
222	26.592028	10.6.47.71	128.119.245.12	HTTP	513	GET /wireshark-labs/INTRO-wireshark-file1.html HTTP/1.1
229	26.865196	128.119.245.12	10.6.47.71	HTTP	492	HTTP/1.1 200 OK (text/html)
230	26.913160	10.6.47.71	128.119.245.12	HTTP	451	GET /favicon.ico HTTP/1.1
233	27.186872	128.119.245.12	10.6.47.71	HTTP	538	HTTP/1.1 404 Not Found (text/html)

Below the table, the calculation for the round-trip time is shown:

$$26.8651s - 26.592s = 0.2731s$$

3. What is the Internet address of the gaia.cs.umass.edu (also known as www-net.cs.umass.edu)? What is the Internet address of your computer or (if you are using the trace file) the computer that sent the HTTP GET message?



The screenshot shows the Wireshark interface with the packet list table. The source and destination IP addresses for the first packet are highlighted:

No.	Time	Source	Destination	Protocol	Length	Info
222	26.592028	10.6.47.71	128.119.245.12	HTTP	513	GET /wireshark-labs/INTRO-wireshark-file1.html HTTP/1.1
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230	26.913160	10.6.47.71	128.119.245.12	HTTP	451	GET /favicon.ico HTTP/1.1
233	27.186872	128.119.245.12	10.6.47.71	HTTP	538	HTTP/1.1 404 Not Found (text/html)

Source : 10.6.47.71

Destination : 128.119.245.12

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4. Expand the information on the HTTP message in the Wireshark “Details of selected packet” window (see Figure 3 above) so you can see the fields in the HTTP GET request message. What type of Web browser issued the HTTP request? The answer is shown at the right end of the information following the “User-Agent:” field in the expanded HTTP message display. [This field value in the HTTP message is how a web server learns what type of browser you are using.]

• Firefox, Safari, Microsoft Internet Edge, Other

```
request version: HTTP/1.1
Host: gaia.cs.umass.edu\r\n
Connection: keep-alive\r\n
Cache-Control: max-age=0\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/89.0.4384.129 Safari/537.36\r\n
Accept: text/html,application/xhtml+xml,application/xml;q=0.9,image/webp,*/*;q=0.8\r\n
Accept-Encoding: gzip, deflate\r\n
Accept-Language: en-US,en;q=0.9\r\n
\r\n
[Full request URI: http://gaia.cs.umass.edu/wireshark-labs/INTRO-wireshark-labs/INTRO-wireshark-labs/INTRO.html]
[HTTP request 1/1]
```

Agent : Mozilla Firefox

5. Expand the information on the Transmission Control Protocol for this packet in the Wireshark “Details of selected packet” window (see Figure 3 in the lab writeup) so you can see the fields in the TCP segment carrying the HTTP message. What is the destination port number (the number following “Dest Port:” for the TCP segment containing the HTTP request) to which this HTTP request is being sent?

```
> Frame 22: 539 bytes on wire (4312 bits), 539 bytes captured (4312 bits) on interface 0
> Ethernet II, Src: Elitagro_07:ff:99 (f4:4d:30:07:ff:99), Dst: Routerbo_3c:9f:39:88
> Internet Protocol Version 4, Src: 10.6.47.71, Dst: 128.119.245.12
▼ Transmission Control Protocol, Src Port: 62333, Dst Port: 80, Seq: 1, Ack: 3344
    Source Port: 62333
    Destination Port: 80
    [Stream index: 2]
    [Conversation completeness: Complete, WITH_DATA (31)]
```

Destination port : 80