

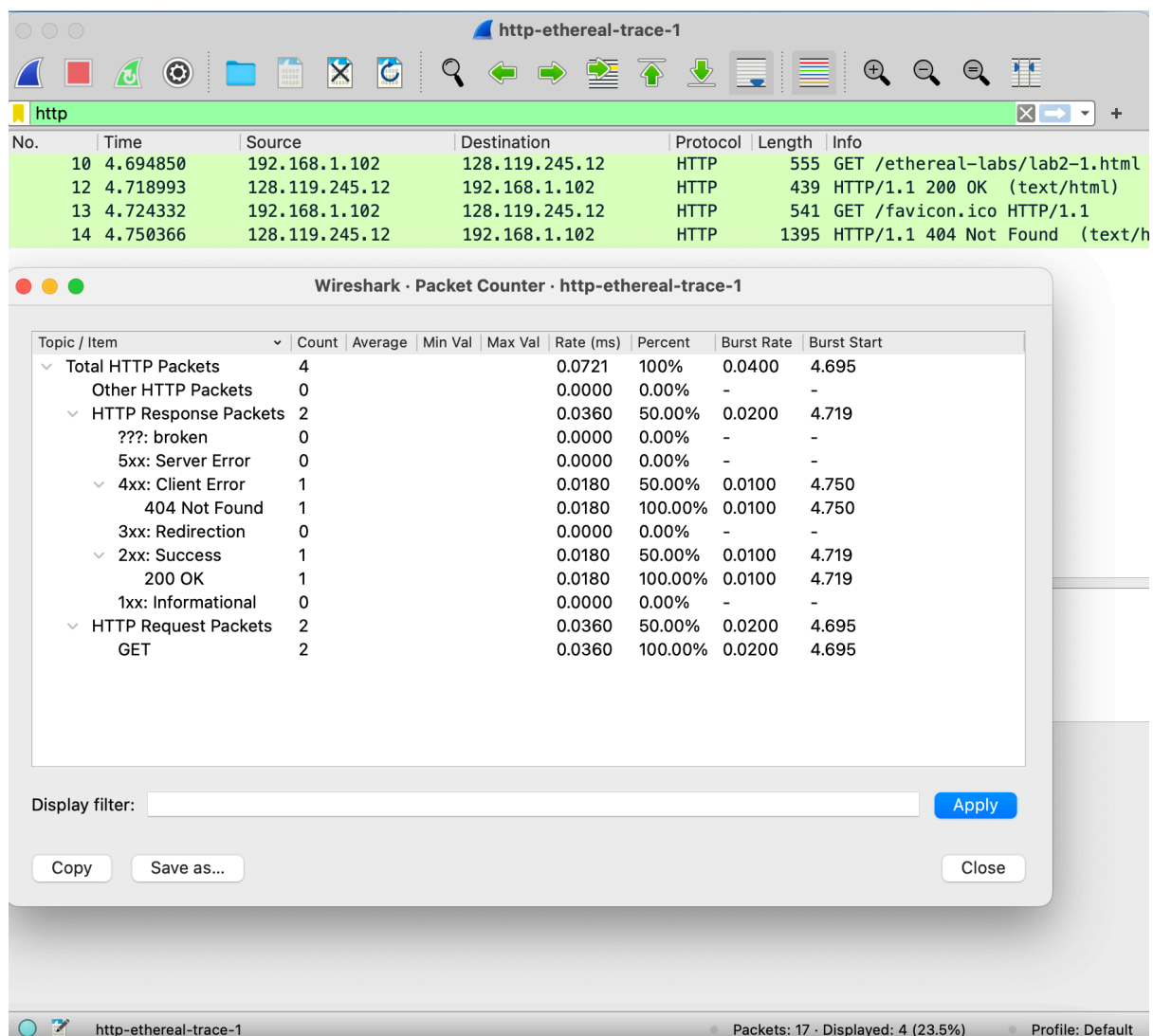
## Assignment 1 Evaluation

### Task 4

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Q1 How many HTTP packets are captured?

4 HTTP packets are captured



The image displays two screenshots from the Wireshark network protocol analyzer. The top screenshot shows a packet capture of an HTTP trace, with four packets selected and highlighted in green. The bottom screenshot shows the 'Wireshark - Packet Counter' window for the same trace, providing a detailed breakdown of the captured HTTP traffic.

**Packet Capture Data:**

No.	Time	Source	Destination	Protocol	Length	Info
10	4.694850	192.168.1.102	128.119.245.12	HTTP	555	GET /ethereal-labs/lab2-1.html
12	4.718993	128.119.245.12	192.168.1.102	HTTP	439	HTTP/1.1 200 OK (text/html)
13	4.724332	192.168.1.102	128.119.245.12	HTTP	541	GET /favicon.ico HTTP/1.1
14	4.750366	128.119.245.12	192.168.1.102	HTTP	1395	HTTP/1.1 404 Not Found (text/h

**Wireshark - Packet Counter - http-ethereal-trace-1**

Topic / Item	Count	Average	Min Val	Max Val	Rate (ms)	Percent	Burst Rate	Burst Start
▼ Total HTTP Packets	4				0.0721	100%	0.0400	4.695
Other HTTP Packets	0				0.0000	0.00%	-	-
▼ HTTP Response Packets	2				0.0360	50.00%	0.0200	4.719
???:: broken	0				0.0000	0.00%	-	-
5xx: Server Error	0				0.0000	0.00%	-	-
▼ 4xx: Client Error	1				0.0180	50.00%	0.0100	4.750
404 Not Found	1				0.0180	100.00%	0.0100	4.750
3xx: Redirection	0				0.0000	0.00%	-	-
▼ 2xx: Success	1				0.0180	50.00%	0.0100	4.719
200 OK	1				0.0180	100.00%	0.0100	4.719
1xx: Informational	0				0.0000	0.00%	-	-
▼ HTTP Request Packets	2				0.0360	50.00%	0.0200	4.695
GET	2				0.0360	100.00%	0.0200	4.695

Display filter:  Apply

Copy Save as... Close

http-ethereal-trace-1 Packets: 17 · Displayed: 4 (23.5%) Profile: Default

Q2 What is the version of HTTP protocol?

HTTP/1.1 is used

```
Frame 10: 555 bytes on wire (4440 bits), 555 bytes captured (4440 bits)
Ethernet II, Src: Dell_4f:36:23 (00:08:74:4f:36:23), Dst: LinksysG_da:af:73 (00:06:25:da:af:73)
Internet Protocol Version 4, Src: 192.168.1.102, Dst: 128.119.245.12
Transmission Control Protocol, Src Port: 4127, Dst Port: 80, Seq: 1, Ack: 1, Len: 501
Hypertext Transfer Protocol
  GET /ethereal-labs/lab2-1.html HTTP/1.1\r\n
    [Expert Info (Chat/Sequence): GET /ethereal-labs/lab2-1.html HTTP/1.1\r\n]
    Request Method: GET
    Request URI: /ethereal-labs/lab2-1.html
    Request Version: HTTP/1.1
    Host: gaia.cs.umass.edu\r\n
    User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.0.2) Gecko/20021120 Netscape/7.01\r\n
    Accept: text/xml,application/xml,application/xhtml+xml,text/html;q=0.9,text/plain;q=0.8,video/x-mng,image...
    Accept-Language: en-us,en;q=0.50\r\n
    Accept-Encoding: gzip, deflate, compress;q=0.9\r\n
    Accept-Charset: ISO-8859-1, utf-8;q=0.66, *;q=0.66\r\n
    Keep-Alive: 300\r\n
    Connection: keep-alive\r\n
\r\n
[Full request URI: http://gaia.cs.umass.edu/ethereal-labs/lab2-1.html]
[HTTP request 1/2]
[Response in frame: 12]
[Next request in frame: 13]
```

000 00 06 25 da af 73 00 08 74 4f 36 23 08 00 45 00 ..%..s.. t06#..E..

Q3 What is the IP address of the source and destination in HTTP Request packet?

IP address source --> 192.168.1.102

IP address destination --> 128.119.245.12

http-ethereal-trace-1

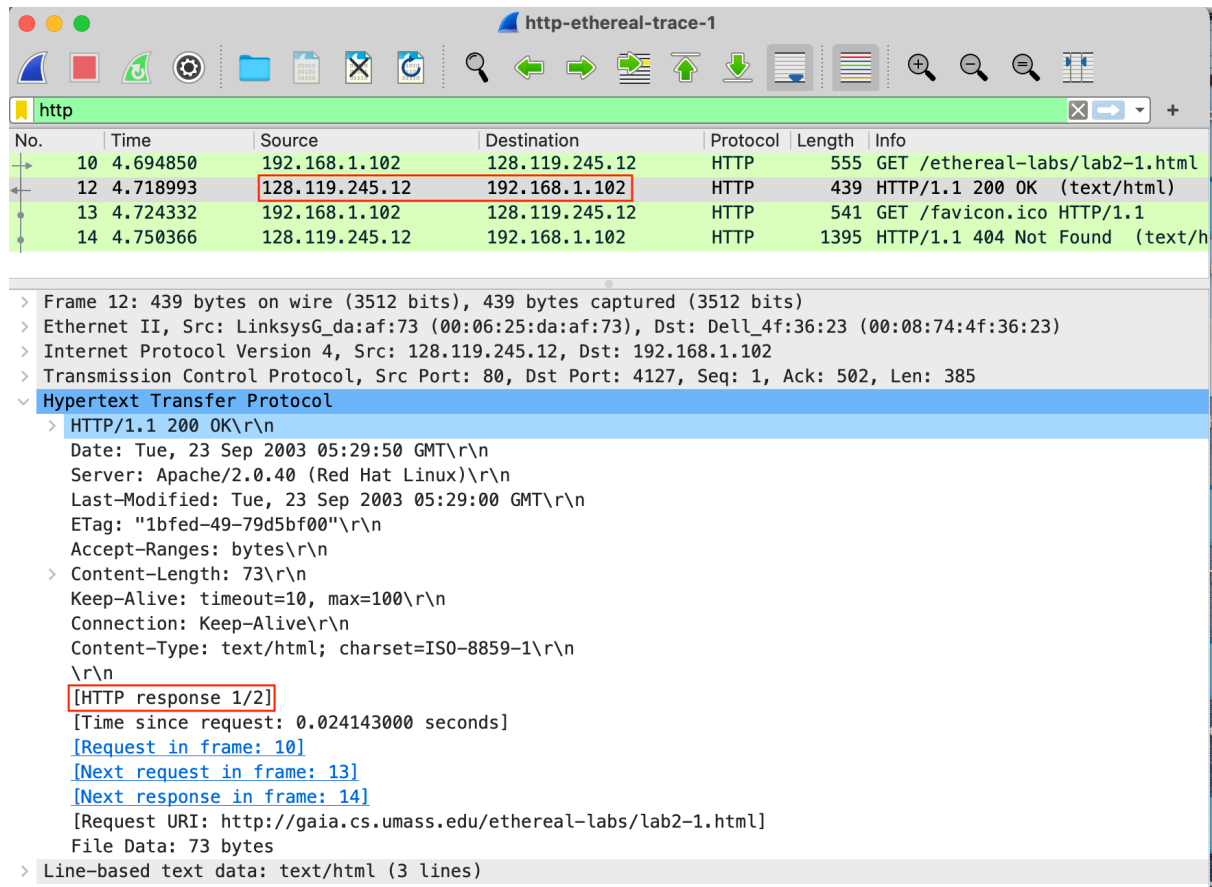
No.	Time	Source	Destination	Protocol	Length	Info
10	4.694850	192.168.1.102	128.119.245.12	HTTP	555	GET /ethereal-labs/lab2-1.html
12	4.718993	128.119.245.12	192.168.1.102	HTTP	439	HTTP/1.1 200 OK (text/html)
13	4.724332	192.168.1.102	128.119.245.12	HTTP	541	GET /favicon.ico HTTP/1.1
14	4.750366	128.119.245.12	192.168.1.102	HTTP	1395	HTTP/1.1 404 Not Found (text/h

```
> Frame 10: 555 bytes on wire (4440 bits), 555 bytes captured (4440 bits)
> Ethernet II, Src: Dell_4f:36:23 (00:08:74:4f:36:23), Dst: LinksysG_da:af:73 (00:06:25:da:af:73)
> Internet Protocol Version 4, Src: 192.168.1.102, Dst: 128.119.245.12
> Transmission Control Protocol, Src Port: 4127, Dst Port: 80, Seq: 1, Ack: 1, Len: 501
> Hypertext Transfer Protocol
  GET /ethereal-labs/lab2-1.html HTTP/1.1\r\n
    Host: gaia.cs.umass.edu\r\n
    User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.0.2) Gecko/20021120 Netscape/7.01\r\n
    Accept: text/xml,application/xml,application/xhtml+xml,text/html;q=0.9,text/plain;q=0.8,video/x-mng,image/
    Accept-Language: en-us,en;q=0.50\r\n
    Accept-Encoding: gzip, deflate, compress;q=0.9\r\n
    Accept-Charset: ISO-8859-1, utf-8;q=0.66, *;q=0.66\r\n
    Keep-Alive: 300\r\n
    Connection: keep-alive\r\n
\r\n
[Full request URI: http://gaia.cs.umass.edu/ethereal-labs/lab2-1.html]
[HTTP request 1/2]
```

Q4 What is the IP address of the source and destination in HTTP Response packet?

IP address source --> 128.119.245.12

IP address destination --> 192.168.1.102



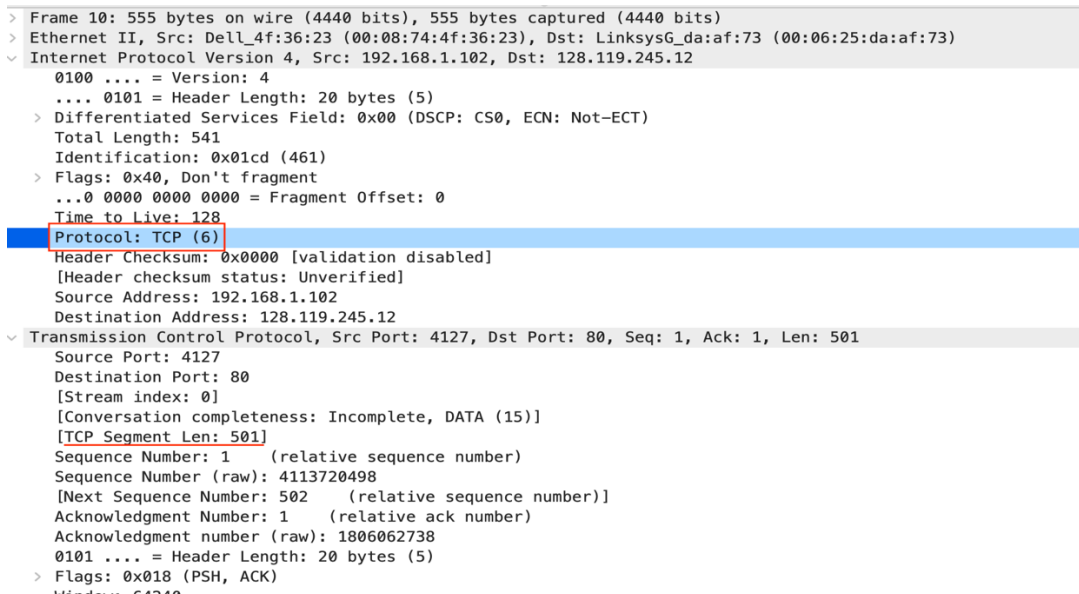
The image shows a Wireshark packet capture window titled "http-ethereal-trace-1". The packet list pane shows four packets. Packet 12 is selected, showing an HTTP 200 OK response. The packet details pane shows the structure of the HTTP response, including headers like Date, Server, Last-Modified, ETag, Accept-Ranges, Content-Length, Keep-Alive, Connection, and Content-Type. The response body is a text/html document.

No.	Time	Source	Destination	Protocol	Length	Info
10	4.694850	192.168.1.102	128.119.245.12	HTTP	555	GET /ethereal-labs/lab2-1.html
12	4.718993	128.119.245.12	192.168.1.102	HTTP	439	HTTP/1.1 200 OK (text/html)
13	4.724332	192.168.1.102	128.119.245.12	HTTP	541	GET /favicon.ico HTTP/1.1
14	4.750366	128.119.245.12	192.168.1.102	HTTP	1395	HTTP/1.1 404 Not Found (text/h

Frame 12: 439 bytes on wire (3512 bits), 439 bytes captured (3512 bits)  
> Ethernet II, Src: LinksysG\_da:af:73 (00:06:25:da:af:73), Dst: Dell\_4f:36:23 (00:08:74:4f:36:23)  
> Internet Protocol Version 4, Src: 128.119.245.12, Dst: 192.168.1.102  
> Transmission Control Protocol, Src Port: 80, Dst Port: 4127, Seq: 1, Ack: 502, Len: 385  
Hypertext Transfer Protocol  
  > HTTP/1.1 200 OK\r\n    Date: Tue, 23 Sep 2003 05:29:50 GMT\r\n    Server: Apache/2.0.40 (Red Hat Linux)\r\n    Last-Modified: Tue, 23 Sep 2003 05:29:00 GMT\r\n    ETag: "1bfed-49-79d5bf00"\r\n    Accept-Ranges: bytes\r\n  > Content-Length: 73\r\n    Keep-Alive: timeout=10, max=100\r\n    Connection: Keep-Alive\r\n    Content-Type: text/html; charset=ISO-8859-1\r\n    \r\n    [HTTP response 1/2]  
    [Time since request: 0.024143000 seconds]  
    [Request in frame: 10]  
    [Next request in frame: 13]  
    [Next response in frame: 14]  
    [Request URI: http://gaia.cs.umass.edu/ethereal-labs/lab2-1.html]  
    File Data: 73 bytes  
  > Line-based text data: text/html (3 lines)

Q5 What is the transport layer protocol used in this HTTP conversation?

TCP is used in this HTTP conversation



The image shows a Wireshark packet capture window titled "http-ethereal-trace-1". The packet list pane shows four packets. Packet 10 is selected, showing a TCP segment. The packet details pane shows the structure of the TCP segment, including the header and the data payload.

No.	Time	Source	Destination	Protocol	Length	Info
10	4.694850	192.168.1.102	128.119.245.12	HTTP	555	GET /ethereal-labs/lab2-1.html
12	4.718993	128.119.245.12	192.168.1.102	HTTP	439	HTTP/1.1 200 OK (text/html)
13	4.724332	192.168.1.102	128.119.245.12	HTTP	541	GET /favicon.ico HTTP/1.1
14	4.750366	128.119.245.12	192.168.1.102	HTTP	1395	HTTP/1.1 404 Not Found (text/h

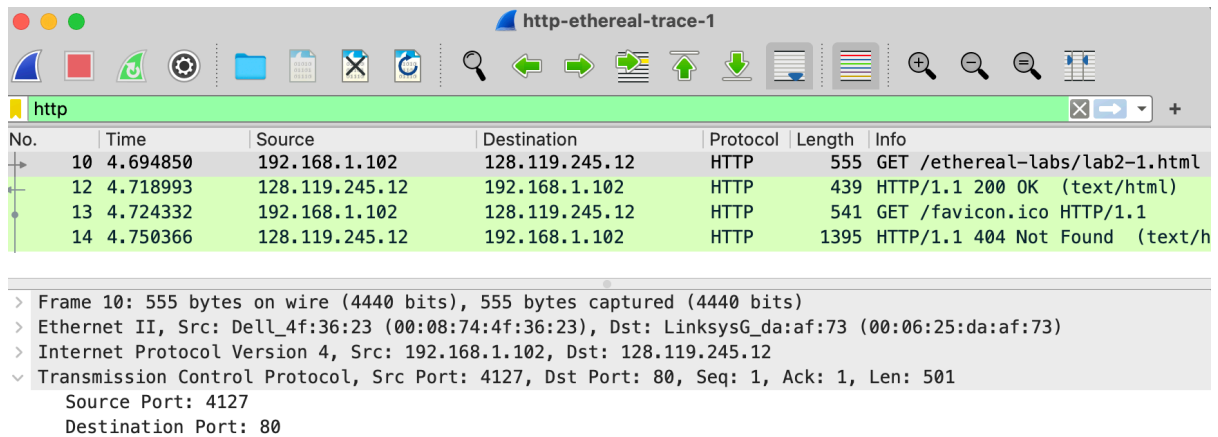
Frame 10: 555 bytes on wire (4440 bits), 555 bytes captured (4440 bits)  
> Ethernet II, Src: Dell\_4f:36:23 (00:08:74:4f:36:23), Dst: LinksysG\_da:af:73 (00:06:25:da:af:73)  
Internet Protocol Version 4, Src: 192.168.1.102, Dst: 128.119.245.12  
  0100 .... = Version: 4  
  .... 0101 = Header Length: 20 bytes (5)  
  > Differentiated Services Field: 0x00 (DSCP: CS0, ECN: Not-ECT)  
  Total Length: 541  
  Identification: 0x01cd (461)  
  > Flags: 0x40, Don't fragment  
  ...0 0000 0000 0000 = Fragment Offset: 0  
  Time to Live: 128  
  Protocol: TCP (6)  
  Header Checksum: 0x0000 [validation disabled]  
  [Header checksum status: Unverified]  
  Source Address: 192.168.1.102  
  Destination Address: 128.119.245.12  
Transmission Control Protocol, Src Port: 4127, Dst Port: 80, Seq: 1, Ack: 1, Len: 501  
  Source Port: 4127  
  Destination Port: 80  
  [Stream index: 0]  
  [Conversation completeness: Incomplete, DATA (15)]  
  TCP Segment Len: 501  
  Sequence Number: 1 (relative sequence number)  
  Sequence Number (raw): 4113720498  
  [Next Sequence Number: 502 (relative sequence number)]  
  Acknowledgment Number: 1 (relative ack number)  
  Acknowledgment number (raw): 1806062738  
  0101 .... = Header Length: 20 bytes (5)  
  > Flags: 0x018 (PSH, ACK)  
  Window: 64240

Q6 What is the Port number of the source and destination in HTTP Request packet?

Source port: 4127

Destination port: 80

Request packet



The image shows a Wireshark capture window titled 'http-ethereal-trace-1'. The packet list pane shows four packets. Packet 10 is selected, and its details pane is expanded, showing the Ethernet II, Internet Protocol Version 4, and Transmission Control Protocol layers. The TCP layer shows Source Port: 4127 and Destination Port: 80.

No.	Time	Source	Destination	Protocol	Length	Info
10	4.694850	192.168.1.102	128.119.245.12	HTTP	555	GET /ethereal-labs/lab2-1.html
12	4.718993	128.119.245.12	192.168.1.102	HTTP	439	HTTP/1.1 200 OK (text/html)
13	4.724332	192.168.1.102	128.119.245.12	HTTP	541	GET /favicon.ico HTTP/1.1
14	4.750366	128.119.245.12	192.168.1.102	HTTP	1395	HTTP/1.1 404 Not Found (text/h

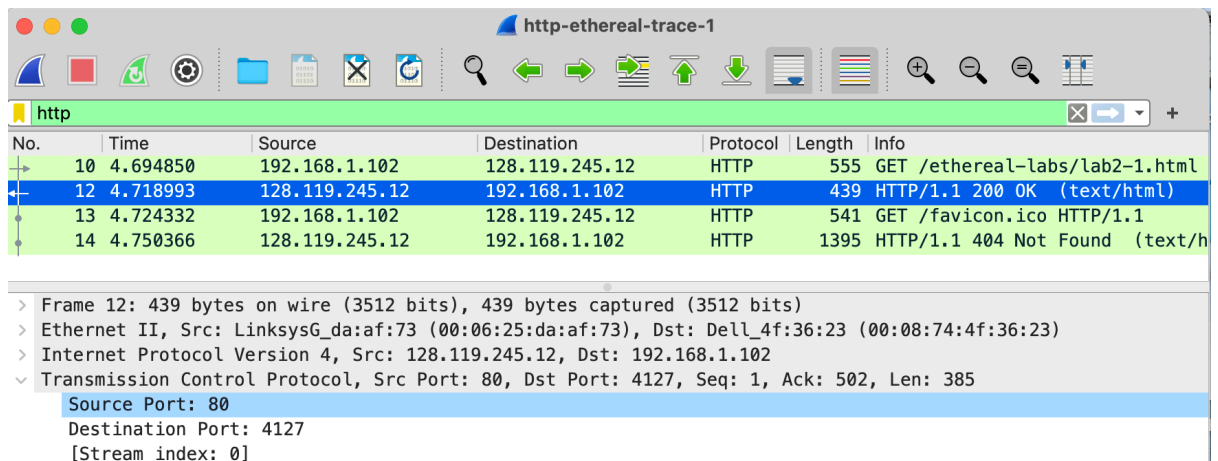
Frame 10: 555 bytes on wire (4440 bits), 555 bytes captured (4440 bits)  
> Ethernet II, Src: Dell\_4f:36:23 (00:08:74:4f:36:23), Dst: LinksysG\_da:af:73 (00:06:25:da:af:73)  
> Internet Protocol Version 4, Src: 192.168.1.102, Dst: 128.119.245.12  
✓ Transmission Control Protocol, Src Port: 4127, Dst Port: 80, Seq: 1, Ack: 1, Len: 501  
Source Port: 4127  
Destination Port: 80

Q7 What is the Port number of the source and destination in HTTP Response packet?

Source port: 80

Destination port: 4127

Response packet



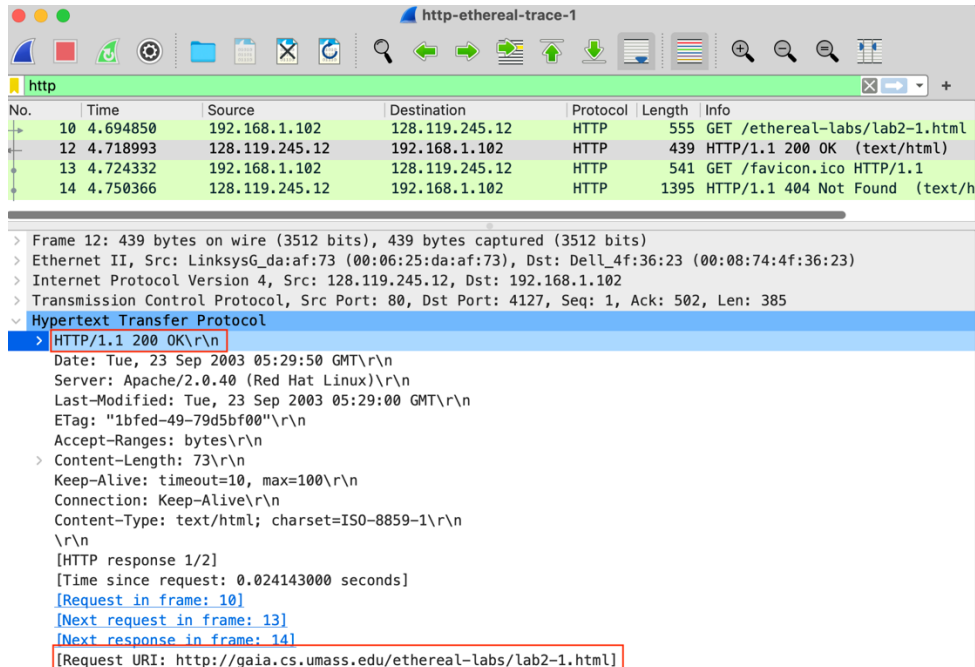
The image shows a Wireshark capture window titled 'http-ethereal-trace-1'. The packet list pane shows four packets. Packet 12 is selected, and its details pane is expanded, showing the Ethernet II, Internet Protocol Version 4, and Transmission Control Protocol layers. The TCP layer shows Source Port: 80 and Destination Port: 4127.

No.	Time	Source	Destination	Protocol	Length	Info
10	4.694850	192.168.1.102	128.119.245.12	HTTP	555	GET /ethereal-labs/lab2-1.html
12	4.718993	128.119.245.12	192.168.1.102	HTTP	439	HTTP/1.1 200 OK (text/html)
13	4.724332	192.168.1.102	128.119.245.12	HTTP	541	GET /favicon.ico HTTP/1.1
14	4.750366	128.119.245.12	192.168.1.102	HTTP	1395	HTTP/1.1 404 Not Found (text/h

Frame 12: 439 bytes on wire (3512 bits), 439 bytes captured (3512 bits)  
> Ethernet II, Src: LinksysG\_da:af:73 (00:06:25:da:af:73), Dst: Dell\_4f:36:23 (00:08:74:4f:36:23)  
> Internet Protocol Version 4, Src: 128.119.245.12, Dst: 192.168.1.102  
✓ Transmission Control Protocol, Src Port: 80, Dst Port: 4127, Seq: 1, Ack: 502, Len: 385  
Source Port: 80  
Destination Port: 4127  
[Stream index: 0]

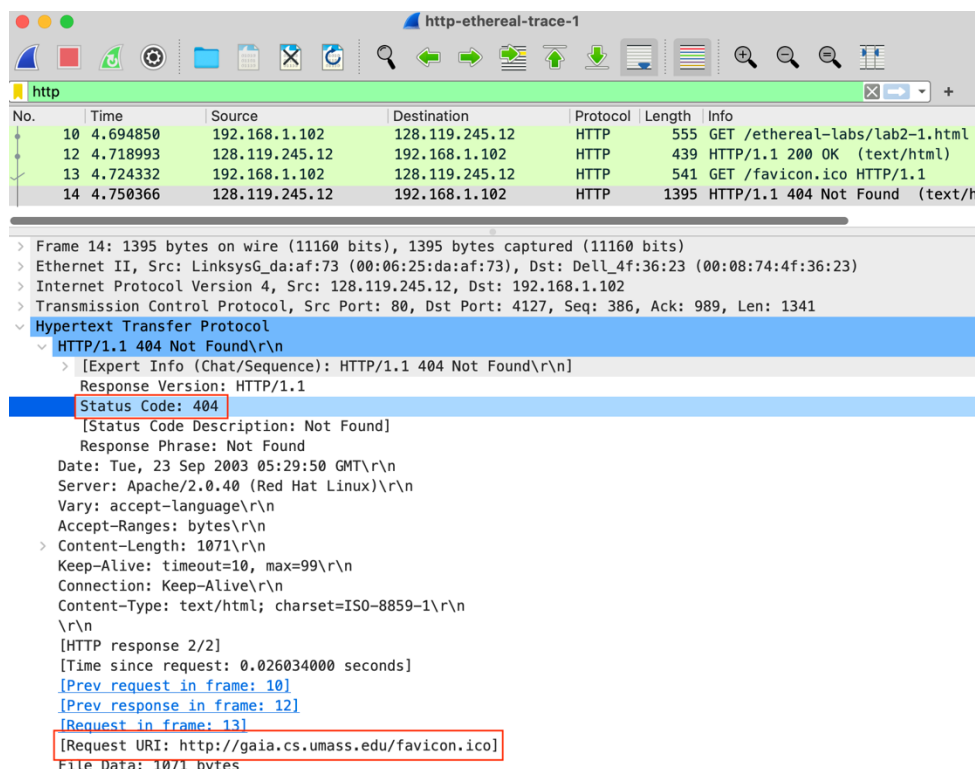
Q8 What is the status code returned from the server to the browser for the request of [“http://gaia.cs.umass.edu/ethereal-labs/lab2-1.html”](http://gaia.cs.umass.edu/ethereal-labs/lab2-1.html) ?

Status code is 200



Q9 What is the status code returned from the server to the browser for the request of [“http://gaia.cs.umass.edu/favicon.ico”](http://gaia.cs.umass.edu/favicon.ico) ?

Status code is 404



Q10 When was the HTML file that you are retrieving (["http://gaia.cs.umass.edu/ethereal-labs/lab2-1.html"](http://gaia.cs.umass.edu/ethereal-labs/lab2-1.html)) last modified at the server?

Last Modified: Tue, 23 Sep 2003 05:29:00 GMT

The image shows a Wireshark packet capture of an HTTP session. The packet list at the top shows four packets: a GET request for /ethereal-labs/lab2-1.html (No. 10, Length 555), an HTTP 200 OK response (No. 12, Length 439), a GET request for /favicon.ico (No. 13, Length 541), and an HTTP 404 Not Found response (No. 14, Length 1395). The packet details pane for packet 12 is expanded, showing the Hypertext Transfer Protocol section. The response status is 200 OK. The 'Last-Modified' header is highlighted with a red box, showing 'Tue, 23 Sep 2003 05:29:00 GMT'. Other headers include ETag, Accept-Ranges, Content-Length, Keep-Alive, Connection, and Content-Type. The packet bytes pane shows the raw data of the response.

No.	Time	Source	Destination	Protocol	Length	Info
10	4.694850	192.168.1.102	128.119.245.12	HTTP	555	GET /ethereal-labs/lab2-1.h
12	4.718993	128.119.245.12	192.168.1.102	HTTP	439	HTTP/1.1 200 OK (text/html
13	4.724332	192.168.1.102	128.119.245.12	HTTP	541	GET /favicon.ico HTTP/1.1
14	4.750366	128.119.245.12	192.168.1.102	HTTP	1395	HTTP/1.1 404 Not Found (te

> Frame 12: 439 bytes on wire (3512 bits), 439 bytes captured (3512 bits)  
> Ethernet II, Src: LinksysG\_da:af:73 (00:06:25:da:af:73), Dst: Dell\_4f:36:23 (00:08:74:4f:36:23)  
> Internet Protocol Version 4, Src: 128.119.245.12, Dst: 192.168.1.102  
> Transmission Control Protocol, Src Port: 80, Dst Port: 4127, Seq: 1, Ack: 502, Len: 385  
▼ 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: Tue, 23 Sep 2003 05:29:50 GMT\r\n  
            Server: Apache/2.0.40 (Red Hat Linux)\r\n  
            Last-Modified: Tue, 23 Sep 2003 05:29:00 GMT\r\n  
            ETag: "1bfed-49-79d5bf00"\r\n  
            Accept-Ranges: bytes\r\n  
        > Content-Length: 73\r\n  
        > Keep-Alive: timeout=10, max=100\r\n  
        > Connection: Keep-Alive\r\n  
        > Content-Type: text/html; charset=ISO-8859-1\r\n  
        \r\n  
        [HTTP response 1/2]  
        [Time since request: 0.024143000 seconds]  
        [\[Request in frame: 10\]](#)  
        [\[Next request in frame: 13\]](#)  
        [\[Next response in frame: 14\]](#)  
        [Request URI: http://gaia.cs.umass.edu/ethereal-labs/lab2-1.html]

Q11 What is the difference between the two response packets in the capture?

We have different length of packets, file data, status code, header checksum and identification id for the response packets.

Packet No.	Length	File data	Status code	Header checksum	Identification
1	439	73 bytes	200	0x53c2	0xb6fa
2	1395	1071 bytes	404	0x5005	0xb6fb

## Packet 1

The image shows two screenshots of a Wireshark packet capture analysis. The top screenshot shows the initial packet list and details for packet 12, which is an HTTP GET request. The bottom screenshot shows the expanded details for packet 12, highlighting the HTTP response status code 200 OK.

**Packet List (Top Screenshot):**

No.	Time	Source	Destination	Protocol	Length	Info
10	4.694850	192.168.1.102	128.119.245.12	HTTP	555	GET /ethereal-labs/lab2-1.html HTTP/1.1
12	4.718993	128.119.245.12	192.168.1.102	HTTP	439	HTTP/1.1 200 OK (text/html)
13	4.724332	192.168.1.102	128.119.245.12	HTTP	541	GET /favicon.ico HTTP/1.1
14	4.750366	128.119.245.12	192.168.1.102	HTTP	1395	HTTP/1.1 404 Not Found (text/html)

**Packet Details (Top Screenshot):**

- Frame 12: 439 bytes on wire (3512 bits), 439 bytes captured (3512 bits)
- Ethernet II, Src: LinksysG\_da:af:73 (00:06:25:da:af:73), Dst: Dell\_4f:36:23 (00:08:74:4f:36:23)
- Internet Protocol Version 4, Src: 128.119.245.12, Dst: 192.168.1.102
  - 0100 .... = Version: 4
  - .... 0101 = Header Length: 20 bytes (5)
  - Differentiated Services Field: 0x00 (DSCP: CS0, ECN: Not-ECT)
  - Total Length: 425
  - Identification: 0xb6fa (46842)
  - Flags: 0x40, Don't fragment
  - ...0 0000 0000 0000 = Fragment Offset: 0
  - Time to Live: 55
  - Protocol: TCP (6)
  - Header Checksum: 0x53c2 [validation disabled]
  - [Header checksum status: Unverified]
  - Source Address: 128.119.245.12
  - Destination Address: 192.168.1.102
- Transmission Control Protocol, Src Port: 80, Dst Port: 4127, Seq: 1, Ack: 502, Len: 385
- Hypertext Transfer Protocol
- Line-based text data: text/html (3 lines)

**Packet List (Bottom Screenshot):**

No.	Time	Source	Destination	Protocol	Length	Info
10	4.694850	192.168.1.102	128.119.245.12	HTTP	555	GET /ethereal-labs/lab2-1.html HTTP/1.1
12	4.718993	128.119.245.12	192.168.1.102	HTTP	439	HTTP/1.1 200 OK (text/html)
13	4.724332	192.168.1.102	128.119.245.12	HTTP	541	GET /favicon.ico HTTP/1.1
14	4.750366	128.119.245.12	192.168.1.102	HTTP	1395	HTTP/1.1 404 Not Found (text/html)

**Packet Details (Bottom Screenshot):**

- Frame 12: 439 bytes on wire (3512 bits), 439 bytes captured (3512 bits)
- Ethernet II, Src: LinksysG\_da:af:73 (00:06:25:da:af:73), Dst: Dell\_4f:36:23 (00:08:74:4f:36:23)
- Internet Protocol Version 4, Src: 128.119.245.12, Dst: 192.168.1.102
- Transmission Control Protocol, Src Port: 80, Dst Port: 4127, Seq: 1, Ack: 502, Len: 385
- 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: Tue, 23 Sep 2003 05:29:50 GMT\r\n
    - Server: Apache/2.0.40 (Red Hat Linux)\r\n
    - Last-Modified: Tue, 23 Sep 2003 05:29:00 GMT\r\n
    - ETag: "1bfed-49-79d5bf00"\r\n
    - Accept-Ranges: bytes\r\n
    - Content-Length: 73\r\n
    - Keep-Alive: timeout=10, max=100\r\n
    - Connection: Keep-Alive\r\n
    - Content-Type: text/html; charset=ISO-8859-1\r\n
    - \r\n
    - [HTTP response 1/2]
    - [Time since request: 0.024143000 seconds]
    - [Request in frame: 10]
    - [Next request in frame: 13]
    - [Next response in frame: 14]
    - [Request URI: http://gaia.cs.umass.edu/ethereal-labs/lab2-1.html]
    - File Data: 73 bytes
  - Line-based text data: text/html (3 lines)

**Packet Bytes (Bottom Screenshot):**

0040 30 30 20 4f 4b 0d 0a 44 61 74 65 3a 20 54 75 65 00 OK..D ate: Tue

HTTP Response Reason Phrase (http.response.reason), 2 bytes

Packets: 17 · Displayed: 4 (23.5%) Profile: Default



## Packet 2

The screenshot shows a Wireshark packet capture window titled 'http-ethereal-trace-1'. The packet list on the left shows four packets. Packet 14, at time 4.750366, is an HTTP 404 Not Found response from 128.119.245.12 to 192.168.1.102, with a length of 1395 bytes. The packet details pane for packet 14 is expanded, showing the following information:

- Frame 14: 1395 bytes on wire (11160 bits), 1395 bytes captured (11160 bits)
- Ethernet II, Src: LinksysG\_da:af:73 (00:06:25:da:af:73), Dst: Dell\_4f:36:23 (00:08:74:4f:36:23)
- Internet Protocol Version 4, Src: 128.119.245.12, Dst: 192.168.1.102
- Transmission Control Protocol, Src Port: 80, Dst Port: 4127, Seq: 386, Ack: 989, Len: 1341
- Hypertext Transfer Protocol
  - HTTP/1.1 404 Not Found\r\n
    - [Expert Info (Chat/Sequence): HTTP/1.1 404 Not Found\r\n]
    - Response Version: HTTP/1.1
    - Status Code: 404
    - [Status Code Description: Not Found]
    - Response Phrase: Not Found
    - Date: Tue, 23 Sep 2003 05:29:50 GMT\r\n
    - Server: Apache/2.0.40 (Red Hat Linux)\r\n
    - Vary: accept-language\r\n
    - Accept-Ranges: bytes\r\n
    - Content-Length: 1071\r\n
    - Keep-Alive: timeout=10, max=99\r\n
    - Connection: Keep-Alive\r\n
    - Content-Type: text/html; charset=ISO-8859-1\r\n
    - \r\n
    - [HTTP response 2/2]
    - [Time since request: 0.02634000 seconds]
    - [Prev request in frame: 10]
    - [Prev response in frame: 12]
    - [Request in frame: 13]
    - [Request URI: http://gaia.cs.umass.edu/favicon.ico]
    - File Data: 1071 bytes
- Line-based text data: text/html (54 lines)

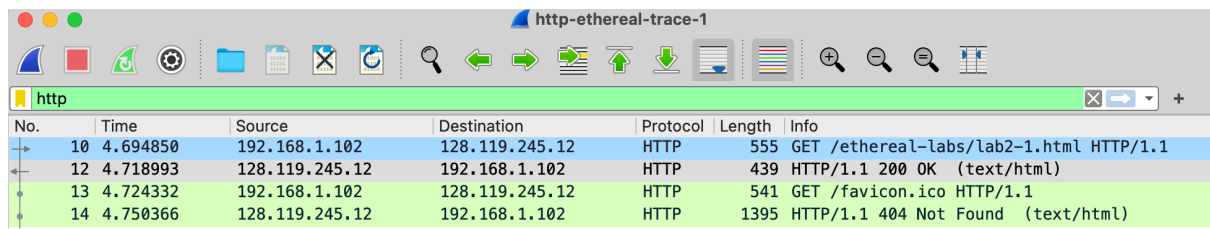
The packet bytes pane at the bottom shows the raw data: 0040 30 34 20 4e 6f 74 20 46 6f 75 6e 64 0d 0a 44 61 04 Not Found..Da. The status bar indicates 'Packets: 17 · Displayed: 4 (23.5%)' and 'Profile: Default'.

The screenshot shows the same Wireshark packet capture window, but with the details pane for packet 14 expanded to show the Internet Protocol Version 4 header. The details pane shows the following information:

- Frame 14: 1395 bytes on wire (11160 bits), 1395 bytes captured (11160 bits)
- Ethernet II, Src: LinksysG\_da:af:73 (00:06:25:da:af:73), Dst: Dell\_4f:36:23 (00:08:74:4f:36:23)
- Internet Protocol Version 4, Src: 128.119.245.12, Dst: 192.168.1.102
  - 0100 .... = Version: 4
  - .... 0101 = Header Length: 20 bytes (5)
  - Differentiated Services Field: 0x00 (DSCP: CS0, ECN: Not-ECT)
  - Total Length: 1381
  - Identification: 0xb6fb (46843)
  - Flags: 0x40, Don't fragment
  - ...0 0000 0000 0000 = Fragment Offset: 0
  - Time to Live: 55
  - Protocol: TCP (6)
  - Header Checksum: 0x5005 [validation disabled]
  - [Header checksum status: Unverified]
  - Source Address: 128.119.245.12
  - Destination Address: 192.168.1.102
- Transmission Control Protocol, Src Port: 80, Dst Port: 4127, Seq: 386, Ack: 989, Len: 1341
- Hypertext Transfer Protocol
- Line-based text data: text/html (54 lines)



Q12 How long did it take for the HTTP request-response to complete?



No.	Time	Source	Destination	Protocol	Length	Info
10	4.694850	192.168.1.102	128.119.245.12	HTTP	555	GET /ethereal-labs/lab2-1.html HTTP/1.1
12	4.718993	128.119.245.12	192.168.1.102	HTTP	439	HTTP/1.1 200 OK (text/html)
13	4.724332	192.168.1.102	128.119.245.12	HTTP	541	GET /favicon.ico HTTP/1.1
14	4.750366	128.119.245.12	192.168.1.102	HTTP	1395	HTTP/1.1 404 Not Found (text/html)

Start time = 4.694850

End time = 4.750366

Total time = End – Start = 0.055516 sec