

1. List of protocols that appear in the Protocol column:
  - ARP
  - BROWSER
  - DNS
  - HTTP
  - ICMPv6
  - ICMPv2
  - SSL
  - TCP
  - TLSV1.2
2. How long did it take from when the HTTP GET message was sent until the HTTP OK reply was received?

1463	13:23:33.963539	192.168.100.105	128.119.245.12	HTTP	615 GET /wireshark-labs/IN
1465	13:23:34.275431	128.119.245.12	192.168.100.105	HTTP	492 HTTP/1.1 200 OK (text
1469	13:23:34.530486	192.168.100.105	128.119.245.12	HTTP	476 GET /favicon.ico HTTP/
1489	13:23:34.838138	128.119.245.12	192.168.100.105	HTTP	538 HTTP/1.1 404 Not Found

```

Frame 1463: 615 bytes on wire (4920 bits), 615 bytes captured (4920 bits) on interface 0
  Interface id: 0 (\Device\NPF_{3E44760D-5528-4802-9446-72BA92E987BD})
  Encapsulation type: Ethernet (1)
  Arrival Time: Feb 24, 2017 13:23:33.963539000 SE Asia Standard Time
  [Time shift for this packet: 0.000000000 seconds]
  Epoch Time: 1487917413.963539000 seconds
  [Time delta from previous captured frame: 0.264949000 seconds]
  [Time delta from previous displayed frame: 0.000000000 seconds]
  [Time since reference or first frame: 59.935321000 seconds]
  Frame Number: 1463
  Frame Length: 615 bytes (4920 bits)
  Capture Length: 615 bytes (4920 bits)

```

1465	13:23:34.275431	128.119.245.12	192.168.100.105	HTTP	492 HTTP/1.1 200 OK (text/css)
1469	13:23:34.530486	192.168.100.105	128.119.245.12	HTTP	476 GET /favicon.ico HTTP/1.1
1489	13:23:34.838138	128.119.245.12	192.168.100.105	HTTP	538 HTTP/1.1 404 Not Found

```

Frame 1465: 492 bytes on wire (3936 bits), 492 bytes captured (3936 bits) on interface 0
  Interface id: 0 (\Device\NPF_{3E44760D-5528-4802-9446-72BA92E987BD})
  Encapsulation type: Ethernet (1)
  Arrival Time: Feb 24, 2017 13:23:34.275431000 SE Asia Standard Time
  [Time shift for this packet: 0.000000000 seconds]
  Epoch Time: 1487917414.275431000 seconds
  [Time delta from previous captured frame: 0.000685000 seconds]
  [Time delta from previous displayed frame: 0.311892000 seconds]
  [Time since reference or first frame: 60.247213000 seconds]
  Frame Number: 1465
  Frame Length: 492 bytes (3936 bits)
  Capture Length: 492 bytes (3936 bits)

```

Answer:  $34.275431000 - 33.963539000 = 0.311892$  seconds

3. What is the Internet address of the gaia.cs.umass.edu (also known as wwwnet.cs.umass.edu)?  
What is the Internet address of your computer?

No.	Time	Source	Destination	Protocol	Length	Info
1463	13:23:33.963539	192.168.100.105	128.119.245.12	HTTP	615	GET /wireshark-labs/IN

Answer is:

- + Internet address of the gaia.cs.umass.edu: 128.119.245.12 ( Destination)
- + My computer's internet address: 192.168.100.105 (Source)

Explain: After the click for downloading first wireshark file, my computer( Source) will send a HTTP GET message to gaia.cs.umass.edu( Destination).

4. Print the two HTTP messages displayed in step 9 above.

There is something wrong with my Print.

No.	Time	Source	Destination	Protocol
Length Info				
1463	13:23:33.963			
539	192.168.100.1			
05	128.119.245			
.12	HTTP			
615	GET /wireshar			
k-labs/INTRO-wiresha				
rk-file1.html HTTP/1				
.1				

Frame 1463: 615 byte  
s on wire (4920 bits  
) , 615 bytes capture  
d (4920 bits) on int  
erface 0

Interface id: 0  
(\Device\NPF\_{3E4476  
0D-5528-4802-9446-72  
BA92E987BD})

Encapsulation ty  
pe: Ethernet (1)  
Arrival Time: Fe  
b 24, 2017 13:23:33.  
963539000 SE Asia St  
andard Time

[Time shift for  
this packet: 0.00000  
0000 seconds]

Epoch Time: 1487  
917413.963539000 sec  
onds

[Time delta from  
previous captured f  
rame: 0.264949000 se  
conds]

[Time delta from  
previous displayed  
frame: 0.000000000 s  
econds]

[Time since refe  
rence or first frame  
: 59.935321000 secon  
ds]

Frame Number: 14  
63

Frame Length: 61  
5 bytes (4920 bits)

Capture Length:  
615 bytes (4920 bits  
)

[Frame is marked  
: False]

[Frame is ignore  
d: False]

[Protocols in fr  
ame: eth:ethertype:i  
p:tcp:http]

[Coloring Rule N  
ame: HTTP]

[Coloring Rule S