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Junhyeok Jeong

Bill Pfeil

CS 372-X001

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Lab 1

1. List 3 different protocols that appear in the protocol column in the unfiltered packet-listing

window in step 7 above.

- DNS, UDP, ICMPv6

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 packetlisting window is the

amount of time, in seconds, since Wireshark tracing began. 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.)

- Sent at 14:53:08.459453, and received at 14:53:08.564320. Therefore, it took 0.104867

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

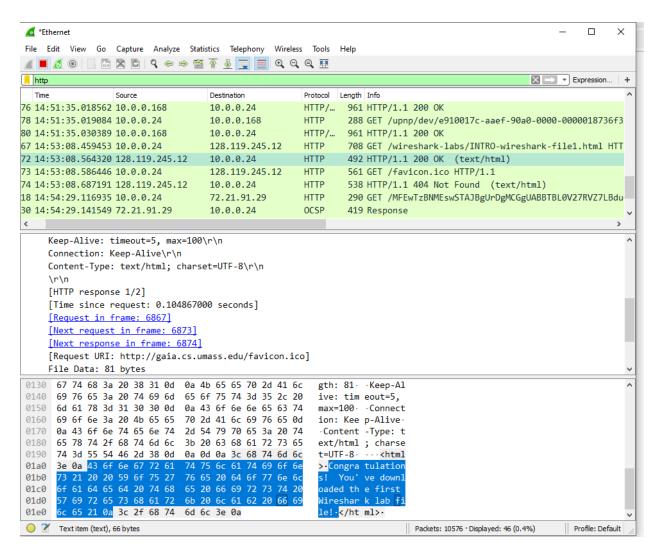
What is the Internet address of your computer?

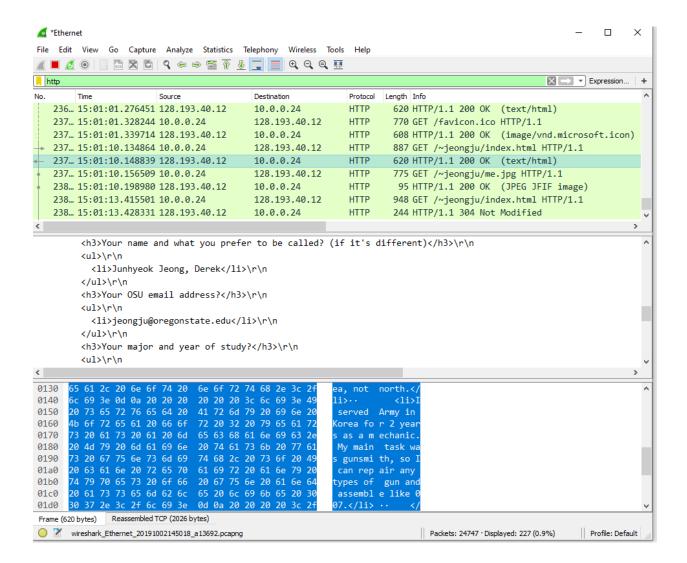
- gaia.cs.umass.edu: 128.119.245.12 (IPv4)

My computer: 10.0.0.24 (IPv4) / 2601:1c0:8600:4bc0:2887:a612:e034:fdad

4. Screenshot the two HTTP messages (GET and OK) referred to in question 2 above. Make sure to include all pertinent information in the screenshot (Time field, Internet addresses, etc). Paste these screenshots into your lab report.

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Extra credit

```
🕓 2. access.engr.oregonstate.edu (jeor
 1 #written by Junhyeok Jeong
 5 import socket
6 import sys
7 import http.client
 8 import urllib
10 #create an INET and STREAM socket
11 try:
            sc = socket.socket(socket.AF_INET, socket.SOCK_STREAM)
            print ("Socket Successfully created")
15 except socket.error as err:
           print ("Socket creation failed with error {}".format(err))
19 port = 80
22 try:
            host_ip = socket.gethostbyname('gaia.cs.umass.edu')
23 host_ip
24 #error handling
25 except socket.gaierror:
26
27
28
            sys.exit()
29 sc.connect((host_ip, port))
31 print ("the socket has successfully connected to gaia.cs.umass.edu: {}".format(host_ip))
33 connection = http.client.HTTPSConnection('gaia.cs.umass.edu')
34 connection.request("GET", "/")
35 response = connection.getresponse()
36 print ("connection status: \{\} and reason: \{\}".format(response.status, response.reason))
38 connection.close()
42 #
```

```
[jeongju@flip3 ~/cs372]$ python3 ec_lab1.py
Socket Successfully created
the socket has successfully connected to gaia.cs.umass.edu: 128.119.245.12
connection status: 200 and reason: OK
```