

```
My IP address
Command Prompt
  Connection-specific DNS Suffix .:
Wireless LAN adapter Local Area Connection* 1:
  Media State . . . . . . . . . . . Media disconnected
  Connection-specific DNS Suffix .:
Wireless LAN adapter Local Area Connection* 2:
  Media State . . . . . . . . . : Media disconnected
  Connection-specific DNS Suffix .:
Wireless LAN adapter Wi-Fi:
  Connection-specific DNS Suffix . : hsd1.va.comcast.net
  IPv6 Address. . . . . . . . . . . . . . . . 2601:140:8f00:8c0::ec7e
  IPv6 Address. . . . . . . . . : 2601:140:8f00:8c0:499a:f6d6:8fa8:97ca
  Temporary IPv6 Address. . . . . : 2601:140:8f00:8c0:d5b1:b155:75f1:d952
 link-local TPv6 Address fe80.499a.f6d6:8fa8:97ca%6
  IPv4 Address. . . . . . . . . . : 10.0.0.170
  Default Gateway . . . . . . . : fe80::d6ab:82ff:fe36:5e42%6
                                   10.0.0.1
Ethernet adapter Bluetooth Network Connection 2:
  Media State . . . . . . . . . : Media disconnected
  Connection-specific DNS Suffix .:
C:\Users\Guamaral>
```



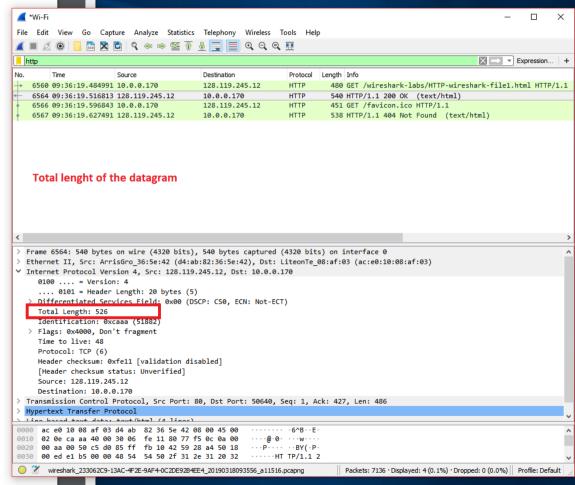
#### Instructions:

- Follow the instructions in Lab 2 and expand the IP detail section.
- Pay attention to the text in bold. I expect you to explain?
- (For each of these questions, take a screenshot of Wireshark, and attach it to your answer) - Ouestions without Full Screenshot will not be graded. A lab submission template is available on canvas. Your screenshot should indicate the time and date on your computer.
- Include a terminal screenshot showing computer IP address on the front page before Question 1, and a full PRINT of the HTTP OK message as the last page.

Lab will NOT be graded if either of these two is missing.

# Ouestions:

- 1. What is the IP address of your computer? Wireshark screenshot not,
- 2. What is the total length of the datagram?
- 3. Has this IP datagram been fragmented?
- 4. How many bytes are in the IP header?
- 5. How many bytes are in the payload of the IP datagram? Explain how you determined the number of payload bytes.



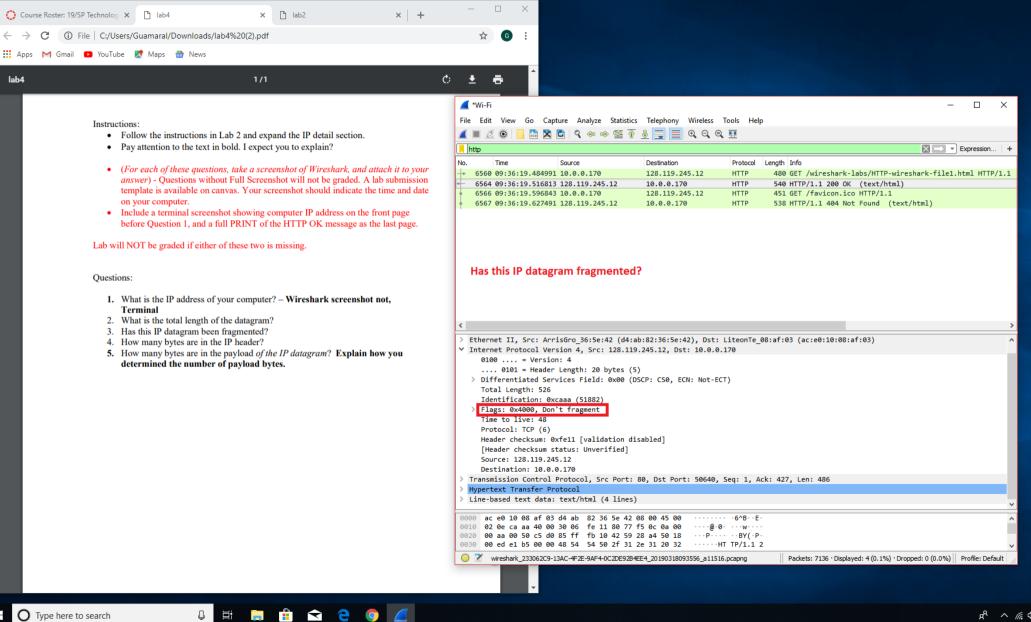




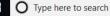












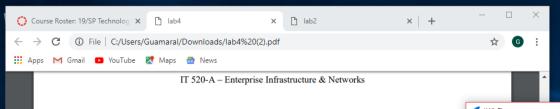












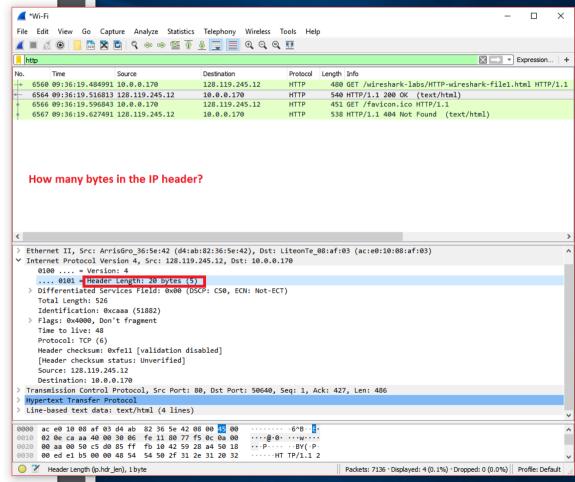
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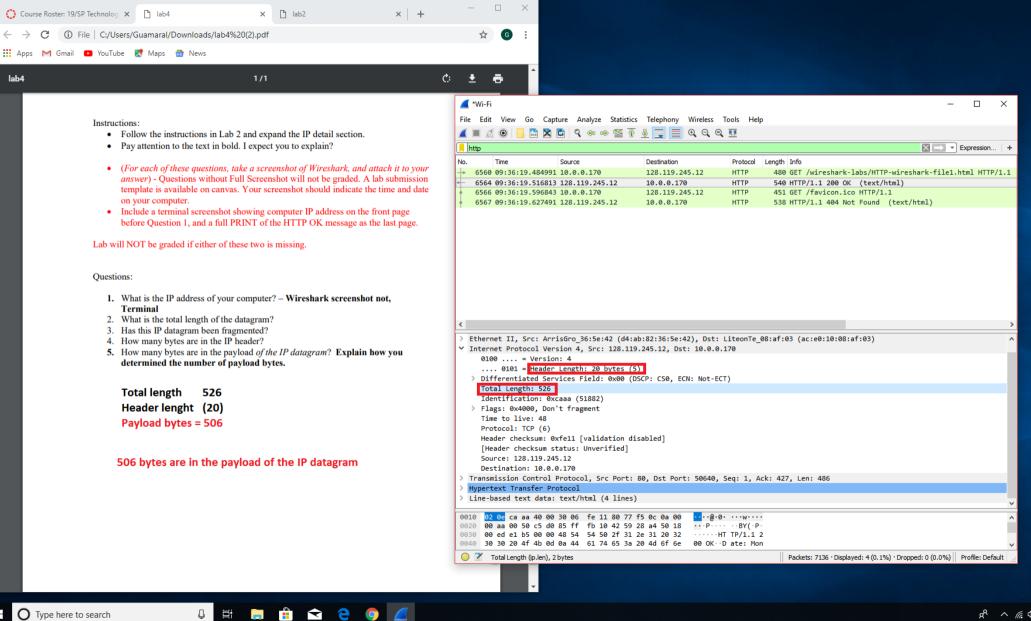




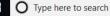












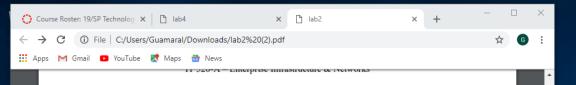












### Instructions:

- 1. Part 1: Start up vour web browser.
- 2. Start up the Wireshark packet sniffer, as described in the Introductory lab (but don't vet begin packet capture). Enter "http" (just the letters, not the quotation marks) in the display-filter-specification window, so that only captured HTTP messages will be displayed later in the packet-listing window. (We're only interested in the HTTP protocol here, and don't want to see the clutter of all captured packets).
- 3. Wait a bit more than one minute (we'll see why shortly), and then begin Wireshark packet capture.
- 4. Enter the following to your browser: http://gaia.cs.umass.edu/wiresharklabs/HTTP-wireshark-file1.html
- 5. Stop Wireshark packet capture.
- (For each of these questions, take a screenshot of Wireshark, and attach it to your answer) - Questions without Full Screenshot will not be graded. A lab submission template is available on canvas. Your screenshot should indicate the time and date on your computer.
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## **Questions:**

- 1. Is your browser running HTTP version 1.0 or 1.1?
- 2. When was the HTML file that you are retrieving last modified at the server?
- 3. What is the IP address of the gaia.cs.umass.edu server?
- 4. What languages does your browser indicate that it can accept to the server?
- 5. When was the HTML file that you are retrieving created at the server?

Don't forget to save your Wireshark Lab file.

