

Chapter Questions

Chapter 2:

- P1: What is the difference between MAIL FROM: in SMTP and From: in the mail message itself?
- P2: How does SMTP mark the end of a message body? How does HTTP mark the end of a message body? Can HTTP use the same method as SMTP to mark the end of a message body? Explain. (These can be relatively short answers.)
- P3. Consider an HTTP client that wants to retrieve a Web document at a given URL. The IP address of the HTTP server is initially unknown. What transport and application-layer protocols besides HTTP are needed in this scenario? (Note this refers to DNS that you can read about in chapter 2 and will discuss in class on Thursday).
- P4. Read the section on **cookies** in chapter 2. For any web browser you use, find the list of cookies that have been deposited on your computer. Comment on what you find in one or two short statements (this should be fun – how many cookies are there? Are there any you see that you would expect? What if you now clear them all, poke around the web for a short time and then look to see how many cookies you have now acquired.)

Net Neutrality Memo

Throughout the semester we will use the topic of net neutrality to explore the strengths and weaknesses of the Internet. I will be asking you to discuss net neutrality as it relates to each layer, as we learn about the layers. There certainly is no one correct answer at any point, but it will be important for you to have increasing sophistication of your analysis of net neutrality, and relate your discussion to the concepts we are discussing in class.

For this week, to get started, write a short essay, or memo (no more than one page), that

- Defines net neutrality
- Presents at least two reasons to support it, and
- Presents at least two reasons to oppose it
- Provides at least two useful references different from the ones I have on the course webpage.

HTTP Wireshark Lab

- Use the HTTP wireshark lab to explore HTTP, and write a lab memo.

- As for all Wireshark labs, when some parts don't work for you, do not worry about it. Work through what does work and make sure you learn something about HTTP, and include this in your concluding statement.