Ali Serdar Aydogdu CS 2600 - X01 Lab 6 4/27/2021

Lab Exercise 6: IP Packet Header Dissection

See the last page for the screenshot.

1. What is the IP header length in bytes? (Wireshark translates the integer value in the Header length (HLen) field to the actual number of bytes for you.)

Header length: 20 bytes

- What is the integer value actually contained in the IP header's Header length field?
 (5)
- 3. What is the Total Length of the IP packet? Does this include the IP header? Does it include the Data-link layer (Ethernet or WiFi) frame header?

Total Length: 45, It includes the IP header, it does not include the Data-link layer.

4. What is the Time To Live (TTL) value? What does this represent? Can you make an "educated guess" as to how many routers this packet has crossed on its way to your computer?

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- 5. Which Internet Layer 3 Transport protocol header is carried within this IP packet?
- 6. Are there any options present at the end of the IP header (after the Destination Address)? If so, what are they?

No

7. Clear the HTTP filter by clicking at the right of the Display Filter field, so that you are once again displaying all of the captured packets. Try Statistics | Packet Lengths again (without a filter). What are the most common packet length ranges? Why do you think this is the case?

1500, the info section of them says "Continuation", most likely they are data streams of large files.

