COMP4621 Lab 8

Name: CHAN, Chun Hin

Student ID: 20853893

Email: chchanec@connect.ust.hk

TCP

***Q1) What is the IP address and TCP port number used by the client computer (source) that is transferring the file to gaia.cs.umass.edu? To answer this question, it’s probably easiest to select an HTTP message and explore the details of the TCP packet used to carry this HTTP message, using the “details of the selected packet header window” (refer to Figure 2 in the “Getting Started with Wireshark” Lab if you’re uncertain about the Wireshark windows.***

A screenshot of a computer

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The IP address used by the client computer (source) is 192.168.1.102

The TCP port number used by the client computer (source) is 1161.

***Q2) What is the IP address of gaia.cs.umass.edu? On what port number is it sending and receiving TCP segments for this connection?***

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The IP address of gaia.cs.umass.edu is 128.119.245.12

The port number that is for both sending and receiving TCP segments is both 80.

***Q3) What is the IP address and TCP port number used by your client computer (source) to transfer the file to gaia.cs.umass.edu?***

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The IP address used by my client computer (source) is 10.89.192.45

The TCP port number used by my client computer (source) is 60262.

UDP

***Q3) The value in the Length field is the length of what? (You can consult the text for this answer). Verify your claim with your captured UDP packet.***

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The value in the Length field is the total number of bytes of the UDP Datagram, including both the payload (which is 50 bytes in the above screenshot) and the UDP header (which is 8 bytes).

***Q6) What is the protocol number for UDP? Give your answer in both hexadecimal and decimal notation. To answer this question, you’ll need to look into the Protocol field of the IP datagram containing this UDP segment (see Figure 4.13 in the text, and the discussion of IP header fields).***

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The protocol number for UDP in hexadecimal notation is 11(16).

The protocol number for UDP in decimal notation is 17(10).