Homework 2 - Wireshark

- This is an individual assignment, and worth 20 points.
- The due date is on Tuesday, September 21, 2:30 (Sec 01) / 5:30 (Sec 76).
- Follow the naming convention (e.g., Homework2-ImG.docx). If you do not follow the convention, I will deduct 1.
- Use "http.cap" (source: https://wiki.wireshark.org/SampleCaptures#Sample_Captures).
- 1. In the first TCP packet, what is the MAC address of the destination?
 - MAC address: fe:ff:20:00:01:00
- 2. What are the absolute sequence and acknowledgement numbers of the ACK packet observed during the three-way handshake?
 - Absolute sequence number: 951057940
 - Absolute acknowledgement number: 290218380
- 3. What ports are used for the TCP communication during the three-way handshake? List the ports that the client (source) and the server (destination) used.
 - The port # (client used): 3372
 - The port # (server used): 80
- 4. What are the MSSs (Maximum Segment Size) exchanged during the three-way handshake?
 - The client's MSS: 1460 bytes
 - The server's MSS: 1380 bytes
- 5. Answer the questions using the packets 13 and 17.
 - 1) Domain name to be resolved: pagead2.googlesyndication.com
 - 2) CNAME record (a): pagead2.google.com
 - 3) CNAME record (b): pagead2.google.akadns.com
 - 4) A record: pagead2.google.akadns.com
 - 5) The two IP addresses of the A record: 216.239.59.104; 216.239.59.99
- 6. List the host(s) the client accessed in this capture.

pagead2.googlesyndication.com

www.ethereal.com