

Homework 2 - Wireshark

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. What are the Window Sizes exchanged during the three-way handshake?
 - The client's Window Size in the SYN packet: 8760
 - The server's Window Size in the SYN/ACK packet: 5840
6.
 - 1) Domain name to be resolved: pagead2.googlesyndication.com
 - 2) CNAME record (a): pagead2.google.com -----> pagead2.google.com
 - 3) CNAME record (b): pagead2.google.com ---→pagead2.google.akadns.net
 - 4) A record (not a record): pagead.google.akadns.net
 - 5) The two IP addresses of the A record: 216.239.59.104 and 216.239.59.99
7. List the hostnames the client accessed in this capture. Find two unique host names that do not have commonality.
 - www.ethereal.com
 - pagead2.googlesyndication.com

