**Homework 2 - Wireshark**

1. In the first TCP packet, what is the MAC address of the destination?

* MAC address: Destination: fe:ff:20:00:01:00 (fe:ff:20:00:01:00)

1. What are the absolute sequence and acknowledgement numbers of the ACK packet observed during the three-way handshake?

* Absolute sequence number: Sequence Number (raw): 951057940
* Absolute acknowledgement number: Acknowledgment number (raw): 290218380

1. 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

1. 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

1. 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

1. Domain name to be resolved: pagead2.googlesyndication.com: type A, class IN
2. CNAME record (a): pagead2.googlesyndication.com: type CNAME, class IN, cname pagead2.google.com
3. CNAME record (b): pagead2.google.com: type CNAME, class IN, cname pagead.google.akadns.net
4. A record (not a record): pagead.google.akadns.net: type A, class IN
5. The two IP addresses of the A record: 216.239.59.104,

216.239.59.99

1. List the hostnames the client accessed in this capture. Find two unique host names that do not have commonality.

pagead.google.akadns.net

www.ethereal.com