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CSC323-A  
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## NAT

- 1) The IP address of the client is 192.168.1.100.
- 2) See screenshot.
- 3) On the IP datagram carrying the HTTP GET, the source IP is 192.168.1.100, the destination IP is 64.233.169.04, the TCP source is 4335, and the destination port is 80.
- 4) The time the 200 OK HTTP message was received was 7.158797. On the IP datagram, the source IP is 64.233.169.104, the destination IP is 192.168.1.100, the destination port is 80, and the TCP source is 4335.
- 5) The client-to-server TCP SYN segment that sets up the connection is set up at the time is 7.108986. In the TCP SYN the source IP is 64.223.169.104, the destination IP is 192.168.1.100, the source port is 80, and the destination port is 4335. The client received the ACK at 7.108986.
- 6) The time this message appeared in the trace file is 6.664397. The source IP is 71.192.34.104, the destination IP is 64.233.169.104, the TCP source is 4338, and the destination port is 80. The fields that changed are source IP.
- 7) The fields that changed in the HTTP GET message are Flags and Checksum. These fields needed to change because of differing packet types.
- 8) The time the first 200 OK HTTP message was received from the Google server is 0.636388. The source IP is 74.125.106.31, the destination IP was 71.192.34.104, the TCP source is 80, and the destination IP is 4331. The fields that are the same are Version, Header Length, and Flags. The fields that changed is Checksum.
- 9) The time the TCP SYN segment and the TCP ACK was received was 6.641926. The source and destination IP of both of these segments are 71.192.34.104. Both of their destination ports are 80. The SYN segment has a destination port of 4338, and 4337 for the ACK segment. The fields that are the same are Version, Header Length, and Flags. The one field that changed is Checksum.

10)

WAN		LAN	
IP	Port	IP	Port
71.192.34.104	4331	192.168.1.100	1028