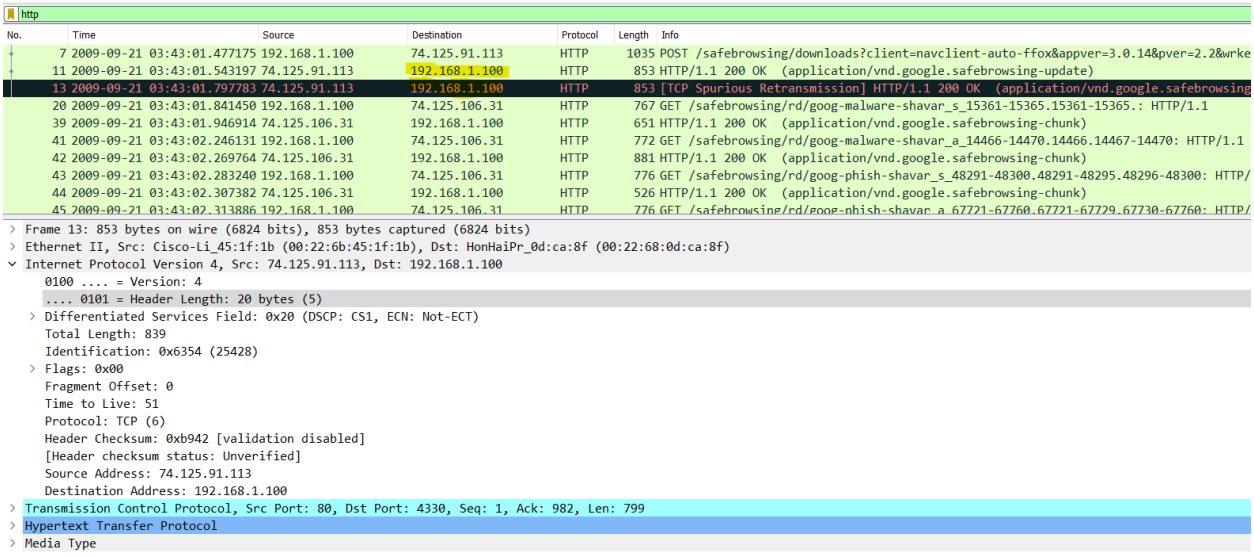
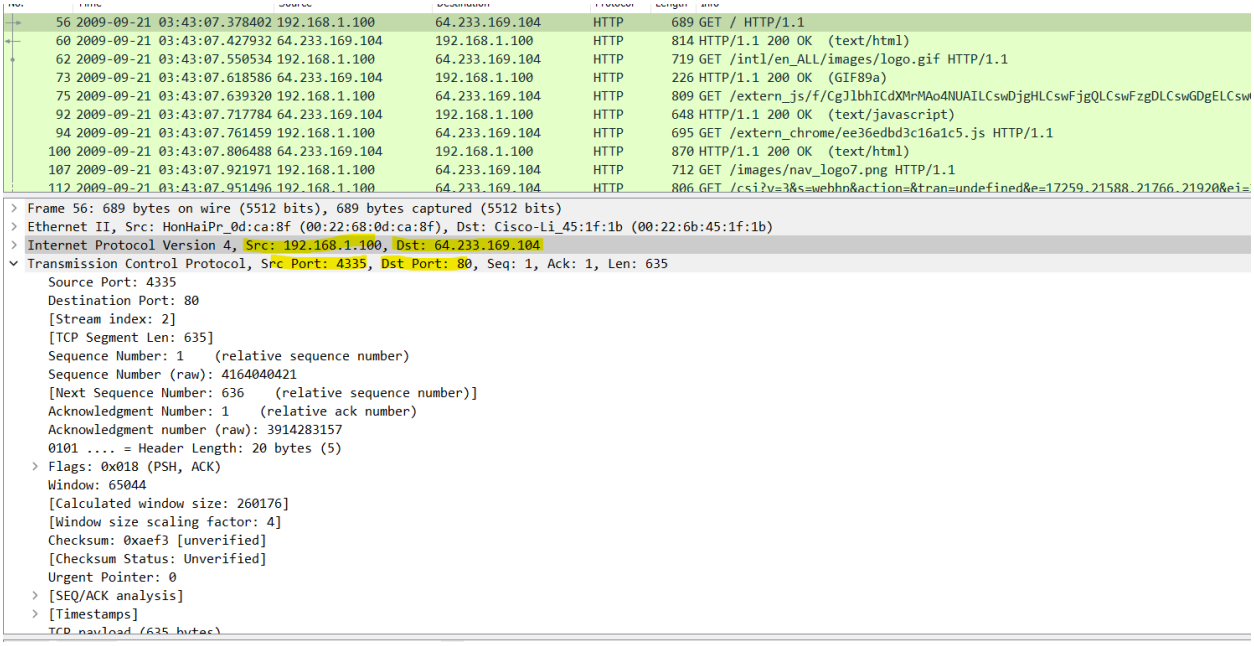
1/



IP address: 192.168.1.100

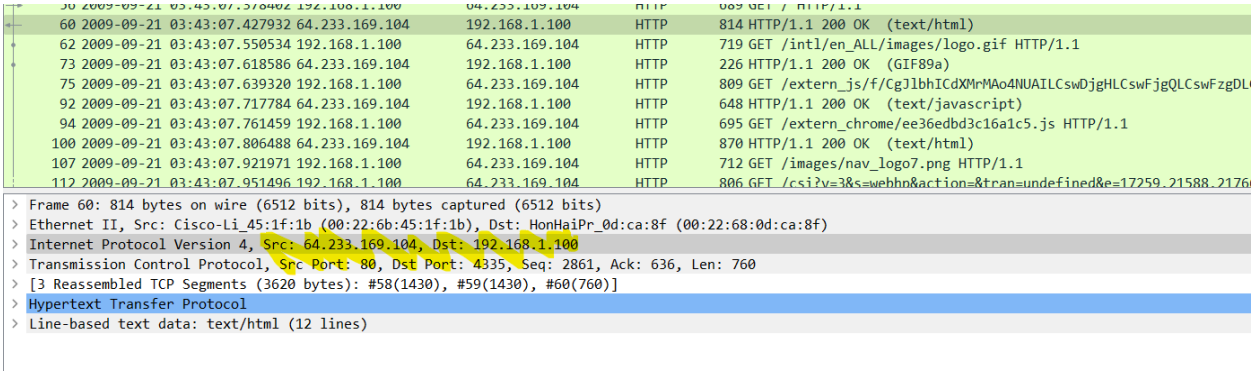
3/



Source: 192.168.1.100, 4335 Destination: 64.233.169.104, 80

4/

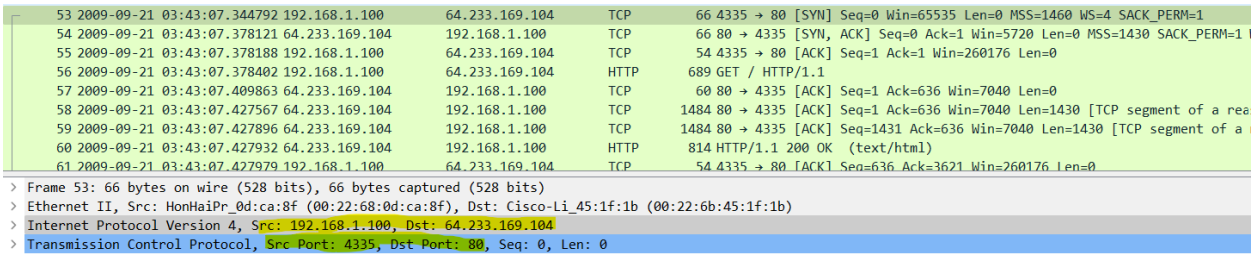
Time: 7.427932



Source: 64.233.169.104, 80 Destination: 192.168.1.100, 4335

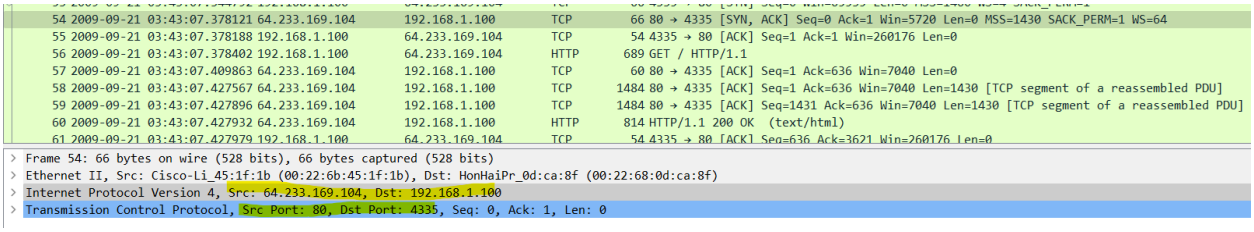
5/At 7.344792, the client-to-server TCP SYN segment sent that sets up the connection used by the GET

TCP SYN segment (Source: 192.168.1.100, 4335 Destination: 64.233.169.104, 80)

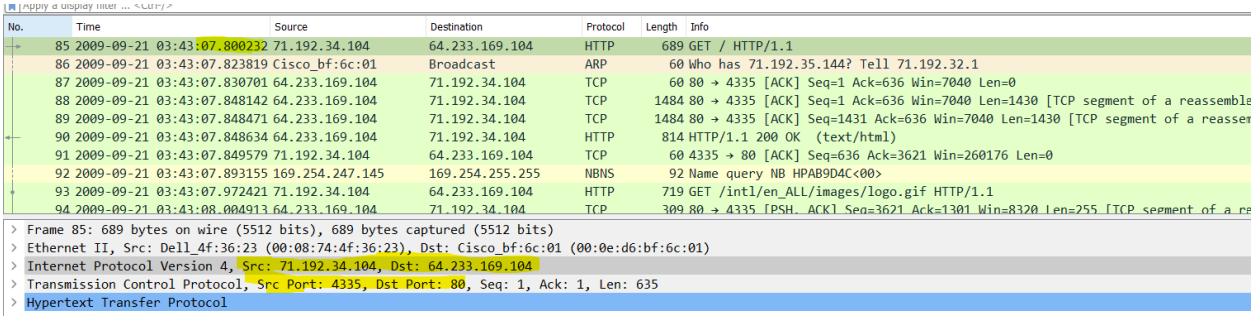


ACK sent in response to the SYN(Source: 64.233.169.104, 80 Destination: 192.168.1.100, 4335)

at time 7.378121



6/



->At 7.800232.

-> Source: 71.192.34.104, 4335 Destination: 64.233.169.104, 80

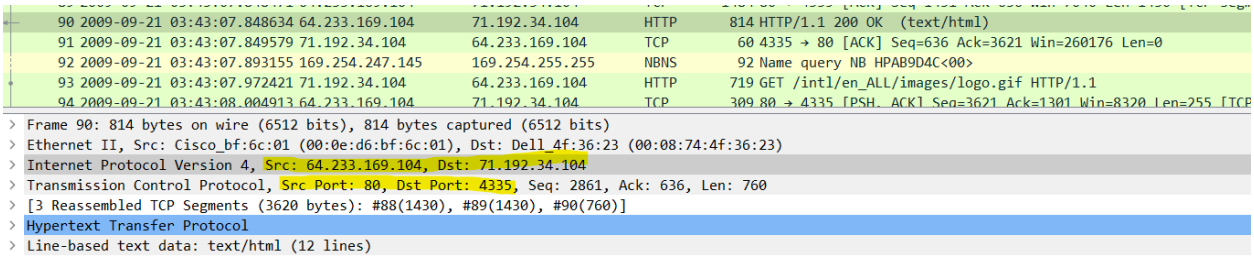
->Only the source IP address has changed

7/ Are any fields in the HTTP GET message changed? (Answer: No)

Which of the following fields in the IP datagram carrying the HTTP GET are changed: Version (Answer: No), Header Length (Answer: No), Flags(Answer: No) , Checksum (Answer: Yes).

If any of these fields have changed, give a reason (in one sentence) stating why this field needed to change. (Answer: Since the IP source address has changed, and the checksum includes the value of the source IP address, the checksum has changed)

8/

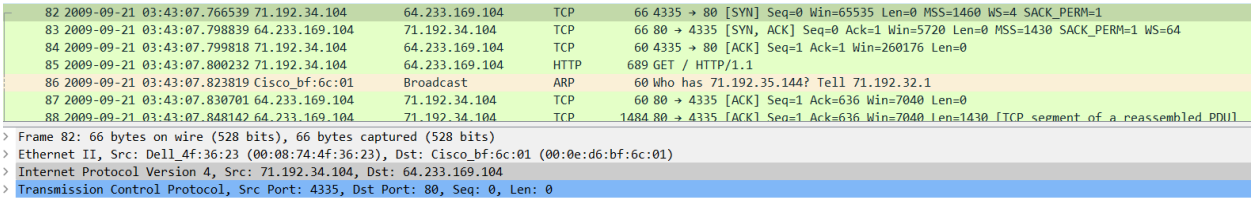


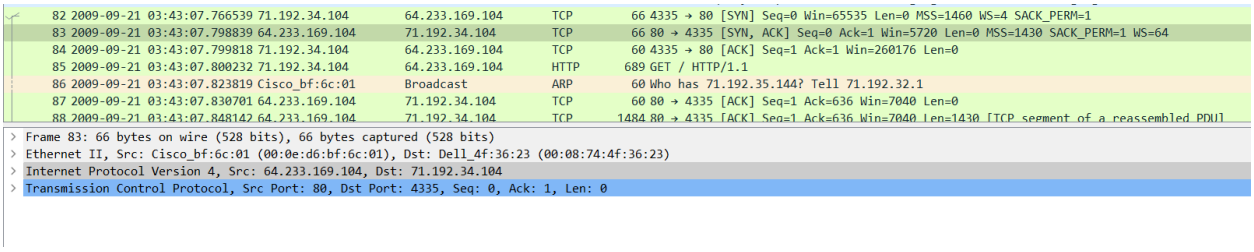
->At 7.848634

-> Source: 64.233.169.104, 80 Destination: 71.192.34.104, 4335

-> only the destination IP address has changed

9/





->At 7.766539 and 7.798849 respectively

-> Source: 71.192.34.104, 4335 Destination: 64.233.169.104, 80.

-> Source: 64.233.169.104, 80 Destination: 71.192.34.104, 4335

-> for the SYN, the source IP address has changed, For the ACK, the destination IP address has changed. The port numbers are unchanged.

10/

NAT translate:

+ WAN side: 71.192.34.104, 4335

+ LAN side: 192.168.1.100, 4335