Computer Networks Lab - 11

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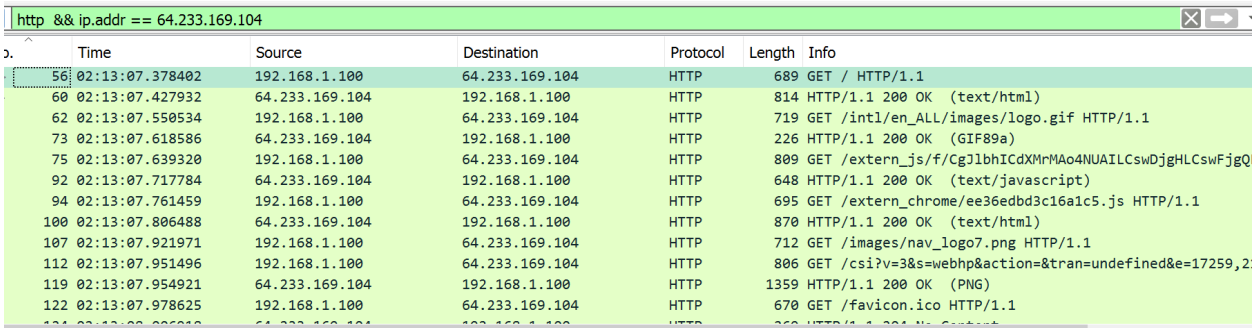
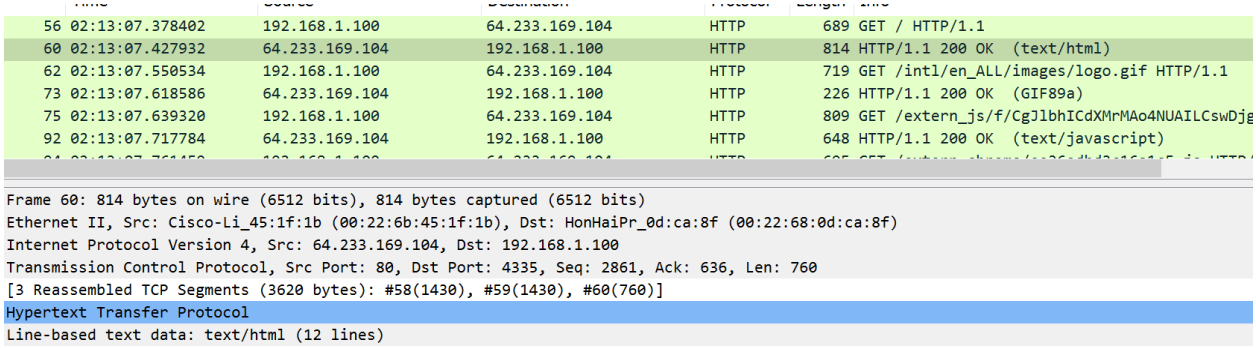
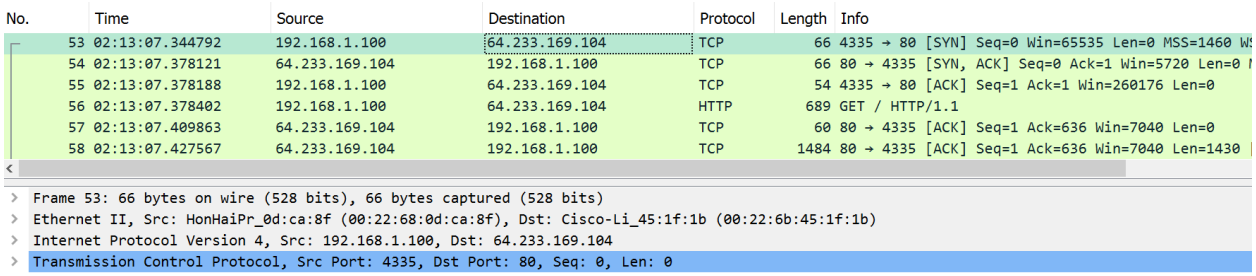
1. The IP address of the client is 192.168.1.100.
2. 

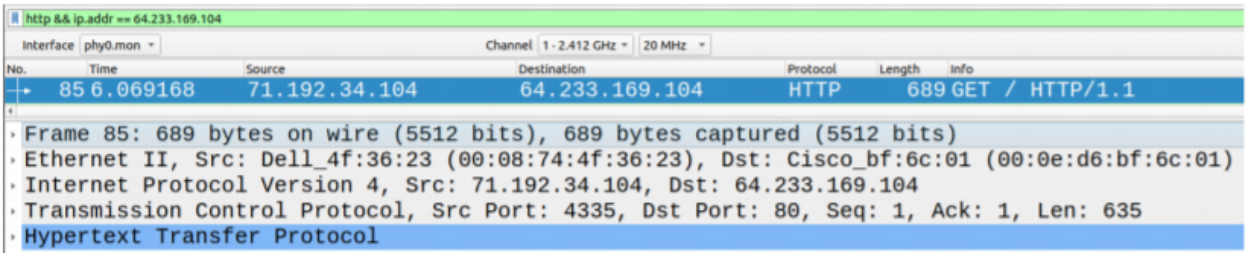
3. The source address is 192.168.1.100 and the destination address is 64.233.169.104
4. The corresponding 200 OK HTTP message was received from the Google server at 7.427932. The source (address, port) is (64.233.169.104, 80) and the (destination address, port) os (192.168.1.100, 4335).



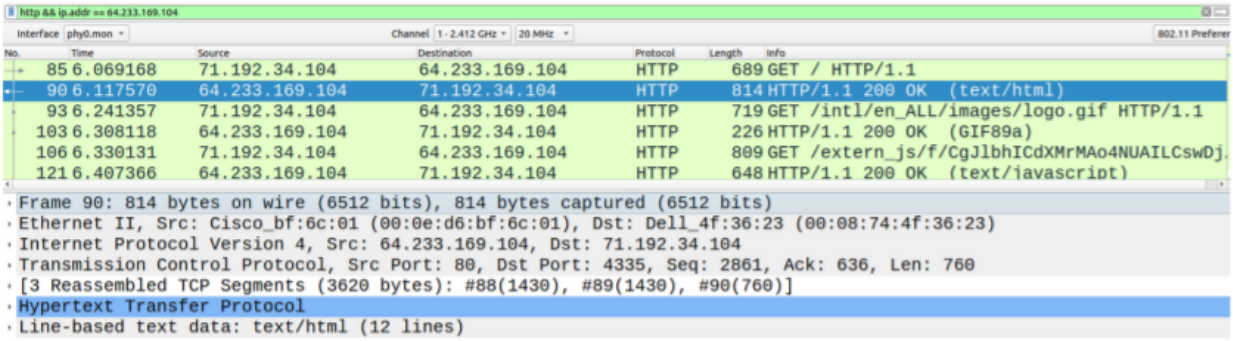
5. The client sent a TCP SYN segment to the server at 7.344792. Source: (192.168.1.100, 4335) and destination: (64.233.169.104, 80). In response to the SYN, the server sent an ACK with source: (64.233.169.104, 80) and destination: (192.168.1.100, 4335). This ACK was received at 7.108986.



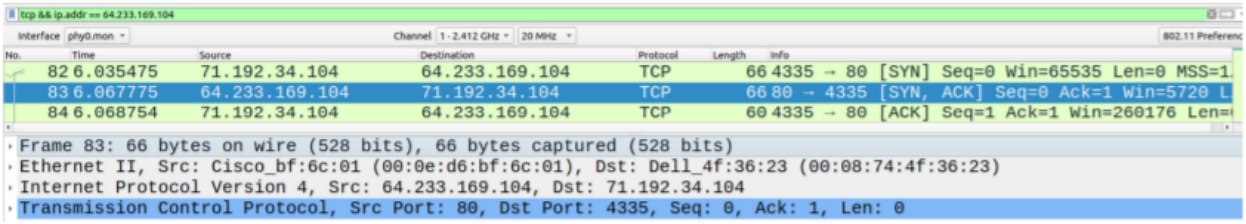
6. The message appears at 6.069168 in the NAT_ISP_side trace file. Source (address, port): (79.192.34.104, 4335) and destination (address, port): (64.233.169.104, 80). Ony the source IP address has changed and the remaining are the same.



7. No, the fields in the HTTP GET message have not changed.
    - Verison: not changed
    - Header length: not changed
    - Flags: not changed
    - Checksum: changed, since the IP source address has changed, and the checksum includes the value of the source IP address, the checksum has changed
8. The first HTTP 200 OK message was received at 6.117570. Source: (64.233.169.104, 80) and destination: (79.192.34.104, 4335). Only the destination IP address has changed.



9. SYN and ACK at 6.035475, and 6.067775 respectively. i. SYN: 1. Source: (71.192.34.104, 433) 2. Destination: (64.233.169.104, 80) 3. The source IP has changed ii. ACK: 1. Source: (64.233.169.104, 80) 2. Destination: (71.192.34.104, 433) 3. The destination IP has changed The ports remained unchanged.



10. NAT translation table

WAN side	LAN side
71.192.34.104, 4335	192.168.1.100, 4335