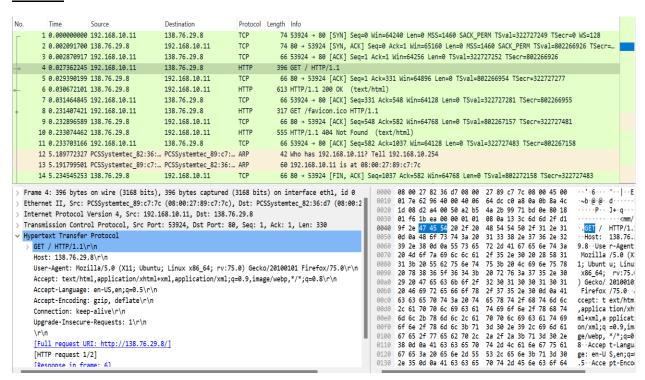
### CS-315 COMPUTER NETWORKS LAB-8 (NAT & SMTP)

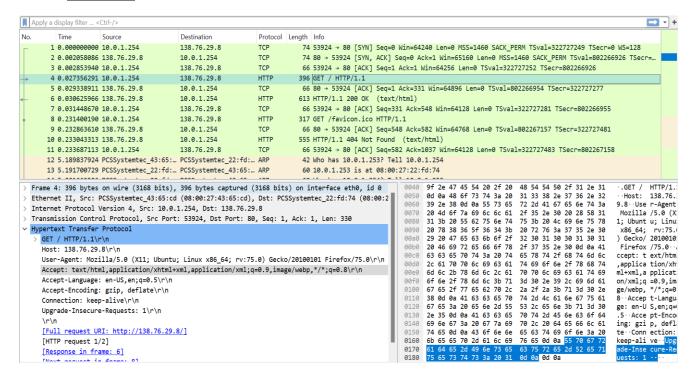
## PART-1 (NAT):

### Inside:



- IP Address of the client = 192.168.10.11
   TCP Source port no = 53924
   IP Address of the (destination)server = 138.76.29.8
   TCP Destination port no = 80
- 2. From the above screenshot, the HTTP GET was captured at t=0.027362245 and the HTTP OK was captured at t=0.030672101[time from first packet capture (from screenshot)].
- 3. Source IP address = 138.76.29.8

Destination IP address = 192.168.10.11 TCP Source port no = 80 TCP Destination port no = 53924 Outside:



- 4. From the above screenshot, the time at which the HTTP GET message appears is t = 0.027356291 [time from first packet capture (from screenshot)]
- 5. Source IP address = 10.0.1.254

  Destination IP address = 138.76.29.8

  Source port no = 53924

  Destination port no = 80
- 6. Among the four fields, the Source IP address is different from the answer in question 1.

- 7. We can see in the above two screenshots that no fields were changed in the HTTP GET message.
- 8. Among the given/following fields, only the (Header)Checksum is changed in the IP datagram.

Inside: Header Checksum: 0x64dc
Outside: Header Checksum: 0x2492

- 9. From the above screenshot, the time at which the HTTP OK message appears is t = 0.030625966 [time from first packet capture (from screenshot)].
- 10. Source IP address = 138.76.29.8

  Destination IP address = 10.0.1.254

  Source port no = 80

  Destination port no = 53924
- 11. Source IP address = 138.76.29.8

  Destination IP address = 192.168.10.11

  Source Port no = 80

  Destination Port no = 53924

## PART-2 (SMTP)

Below are the screenshots that prove successful mail delivery.

# SMTP Mail Testing External Inbox x



#### smtplab23@gmail.com

to 🕶

Hello!! Welcome to CS-315. I love computer networks!