Bil 452 – Ödev 5 NAT

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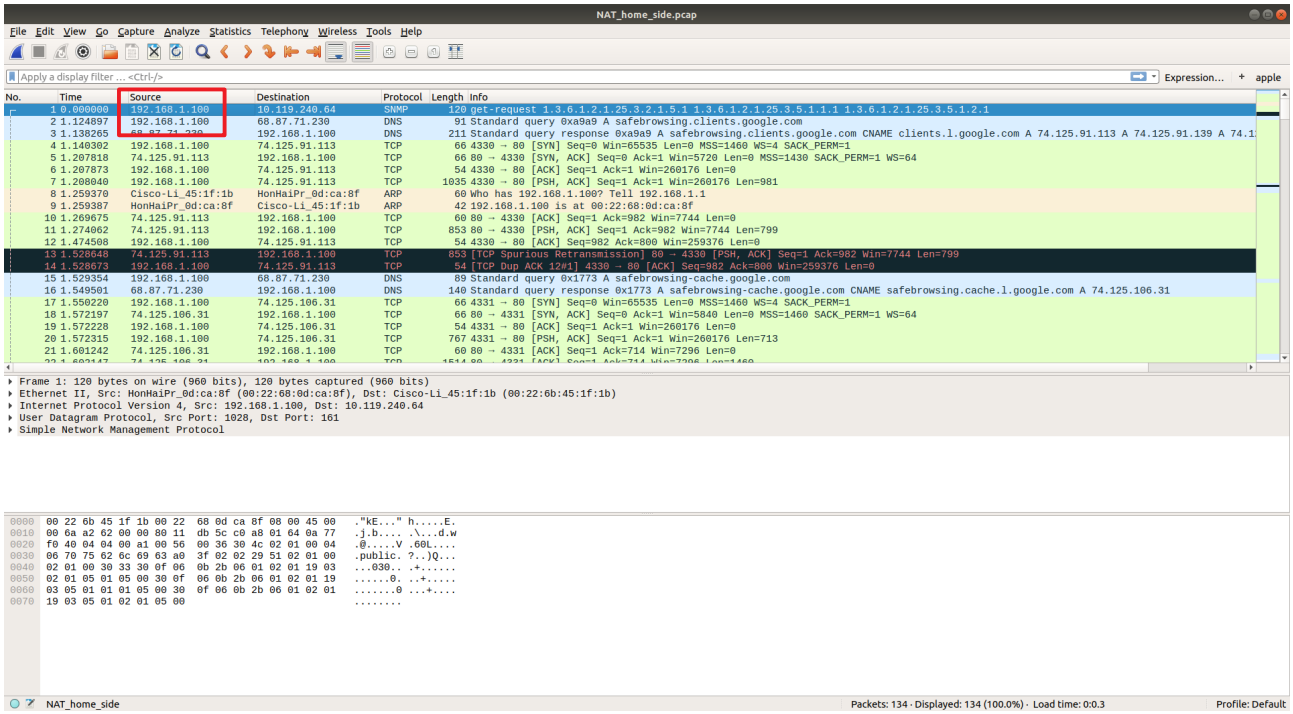
141101024

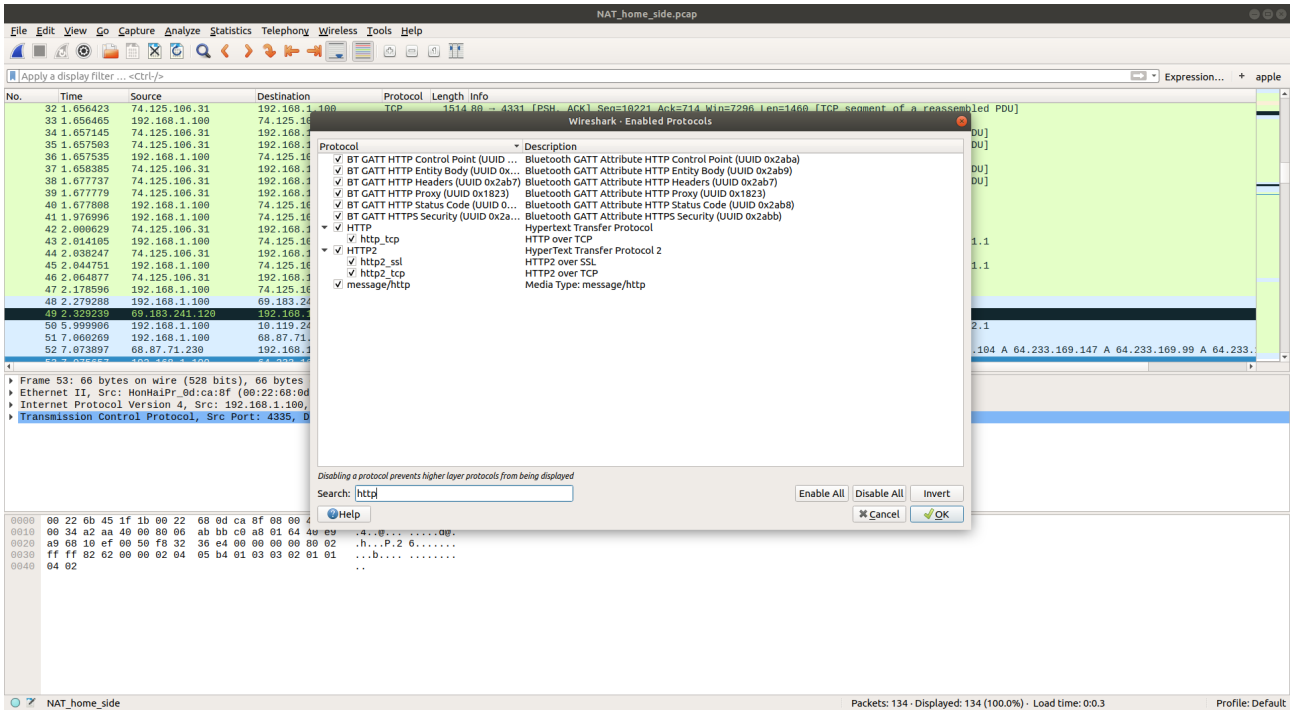
1-)

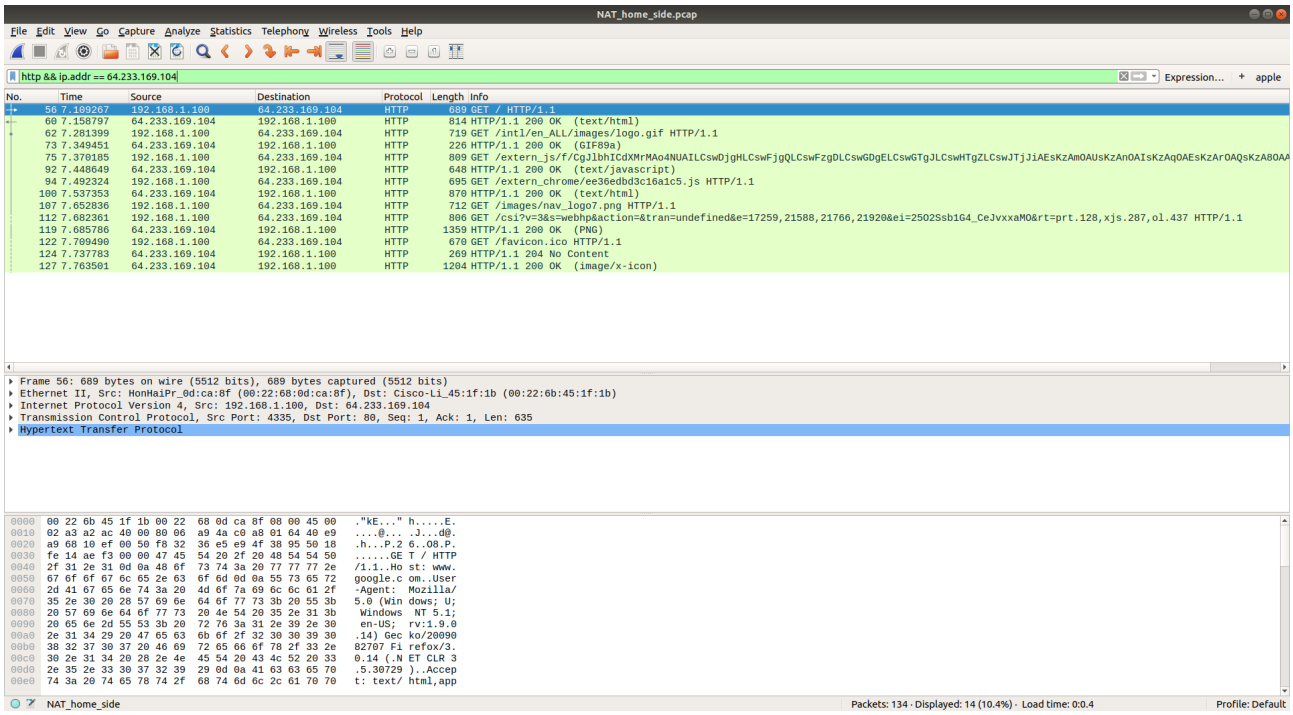


İstemcinin IP adresi: 192.168.1.100

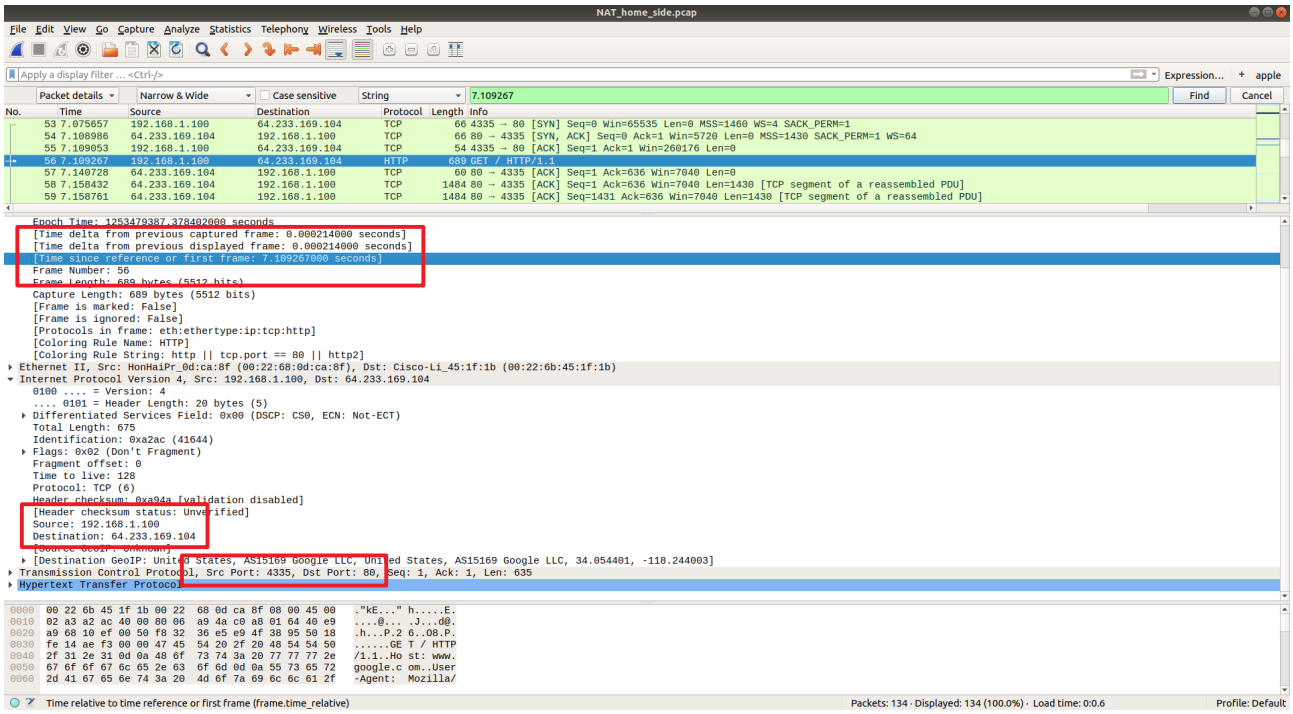
2-)

http && ip.addr == 64.233.169.104 bu şekilde filtrelediğimde herhangi bir sonuca ulaşamadım ancak daha sonra Wireshark'ın enabled protocols kısmından http protokolünü aktif edince bu filtreleme işleminden sonuç alabildim.



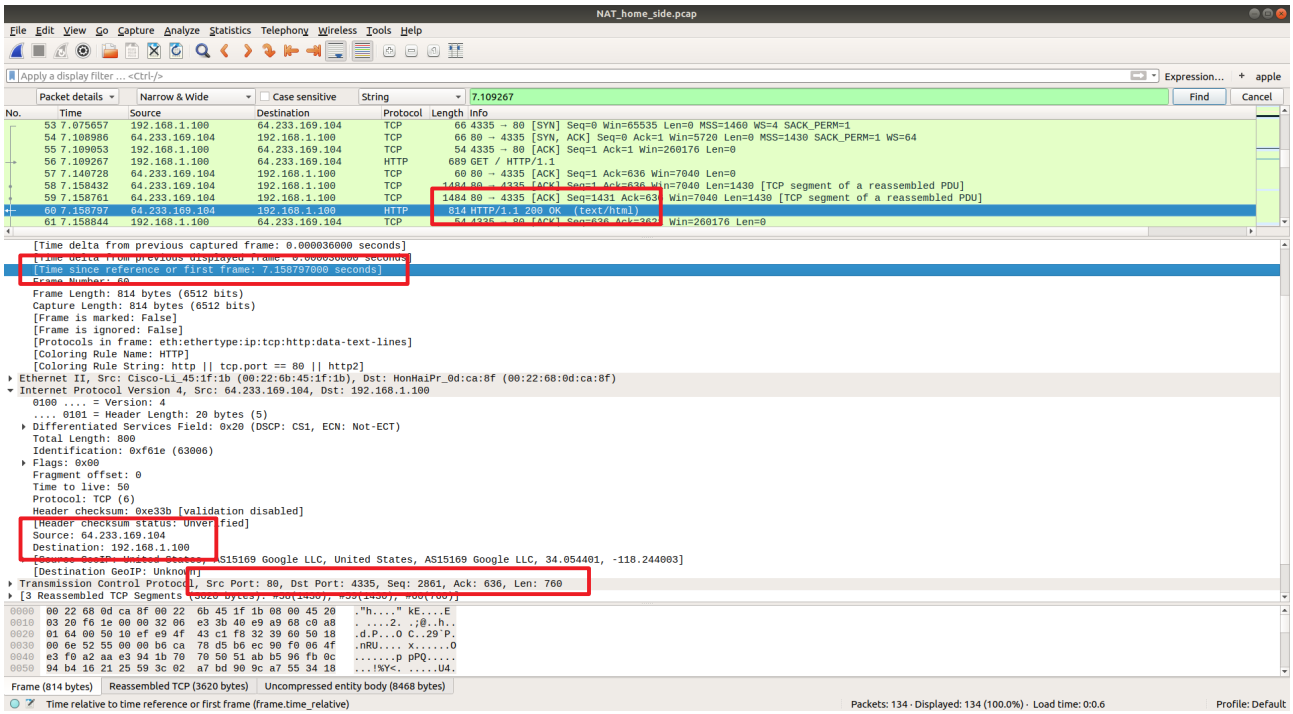


3-)



Source IP: 192.168.1.100
Source Port: 4335
Destination IP: 64.233.169.104
Destination Port: 88

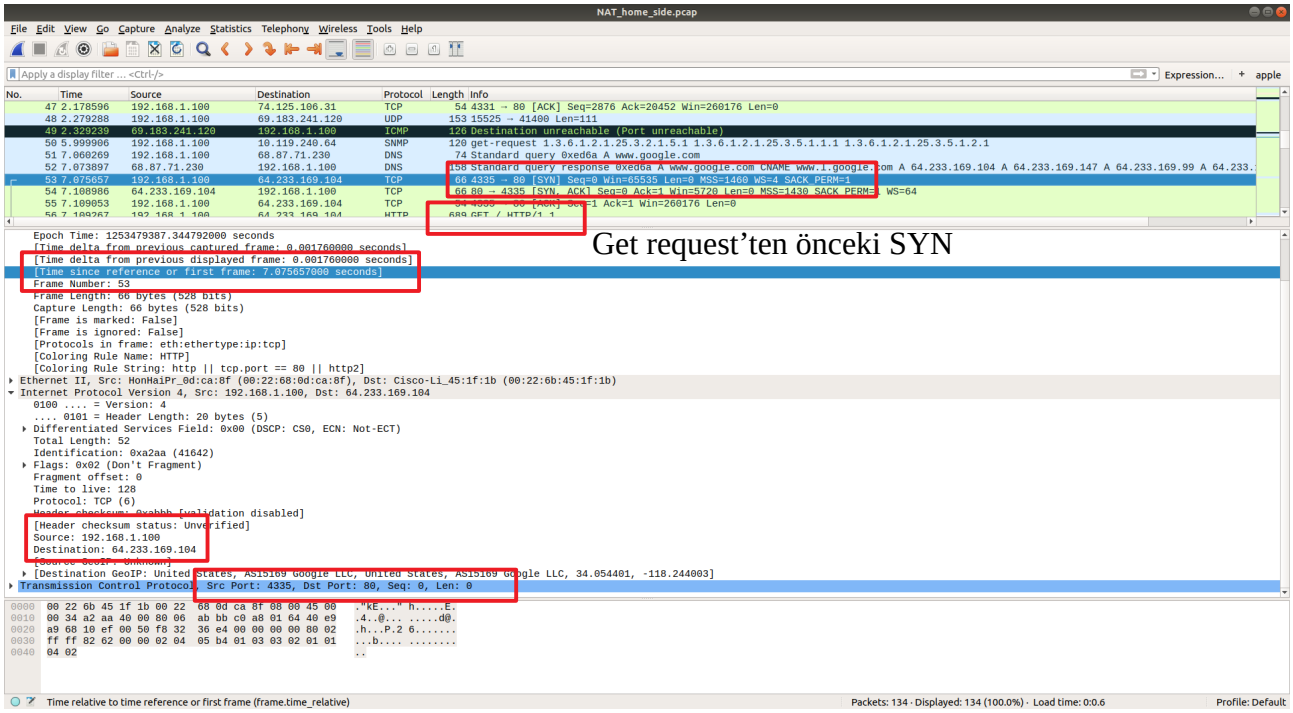
4-)



Time: 7.158797000 seconds
Source IP: 64.233.169.104
Source Port: 80
Destination IP: 192.168.1.100
Destination Port: 4335

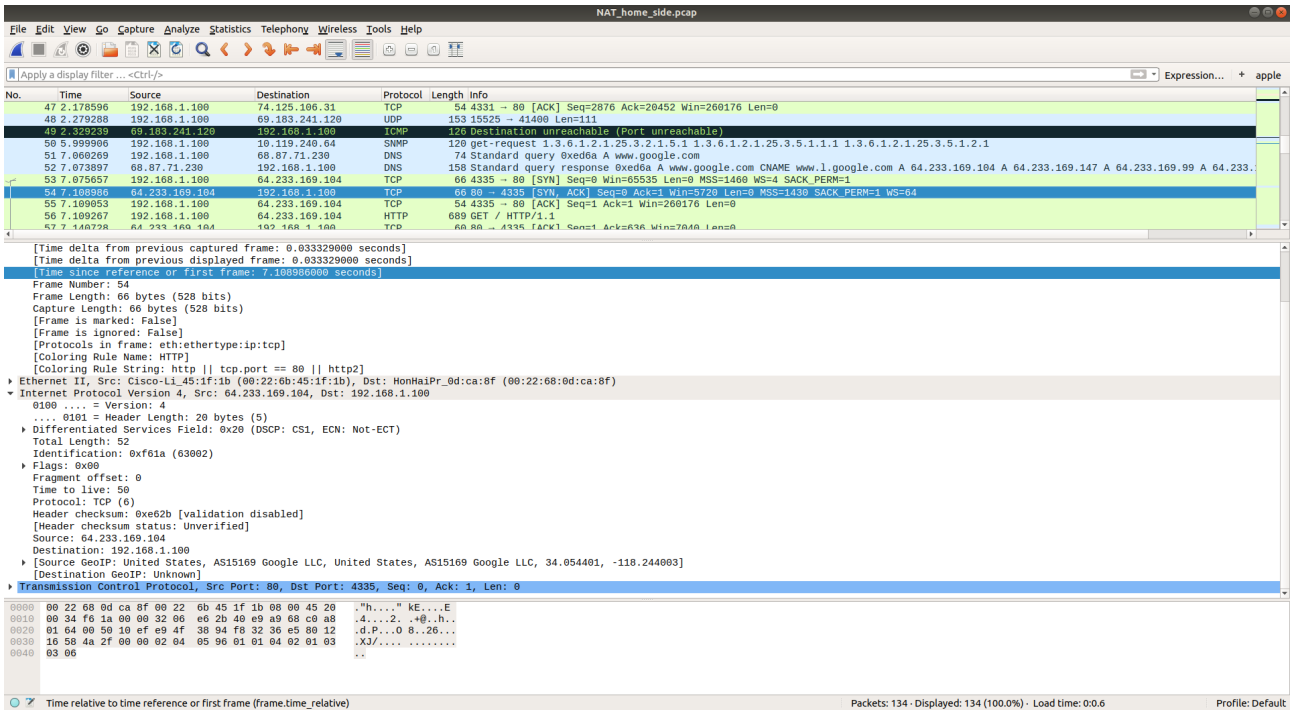
5-)

SYN



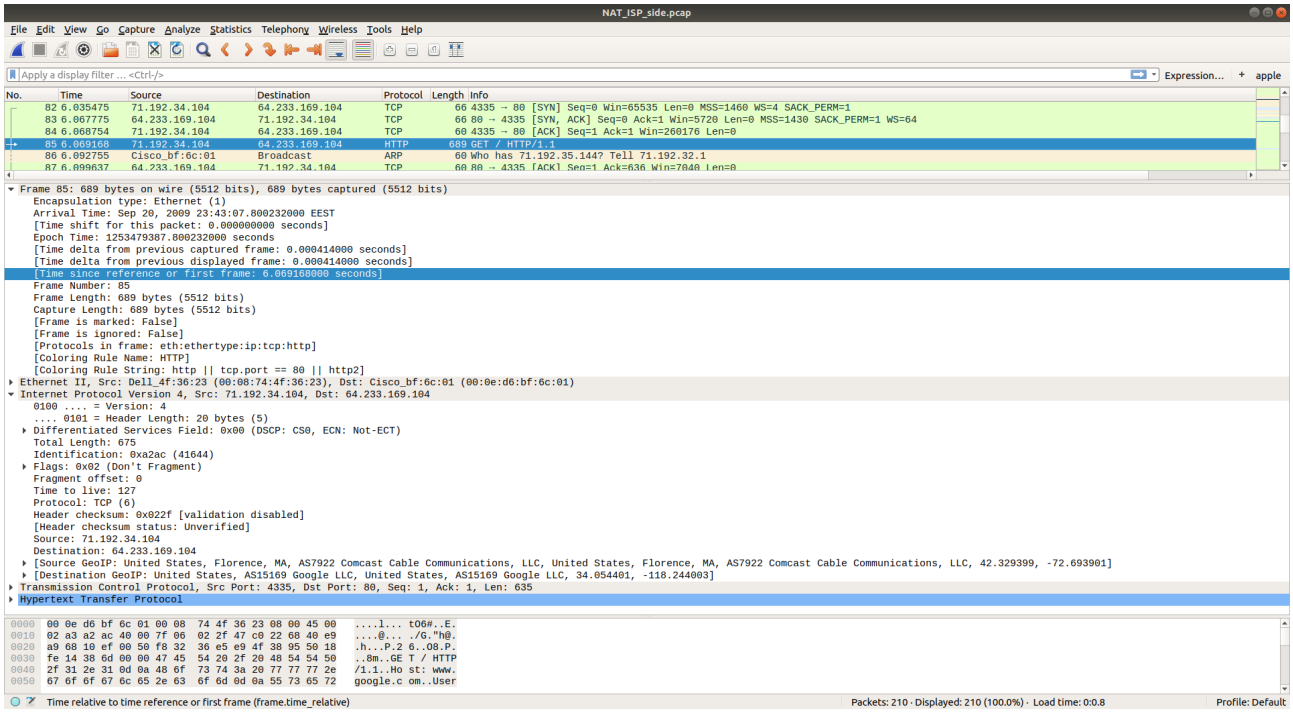
Time: 7.075657000 seconds
Source IP: 192.168.1.100
Source IP: 4335
Destination IP: 64.233.169.104
Destination Port: 80

SYN ACK



Time: 7.108986000 seconds
Source IP: 64.233.169.104
Source Port: 80
Destination IP: 192.168.1.100
Destination Port: 4335

6-)

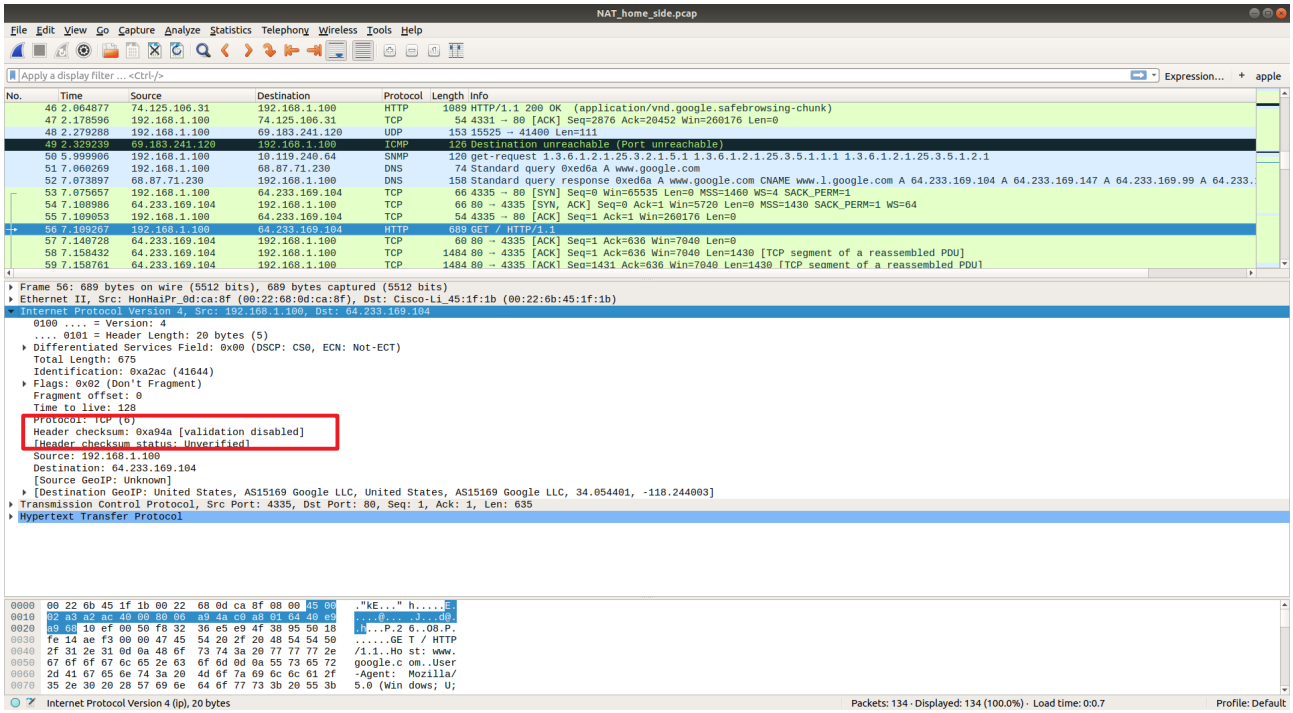


Time: 6.069168000 seconds
Source IP: 71.192.34.104
Source Port: 4335
Destination IP: 64.233.169.104
Destination Port: 80

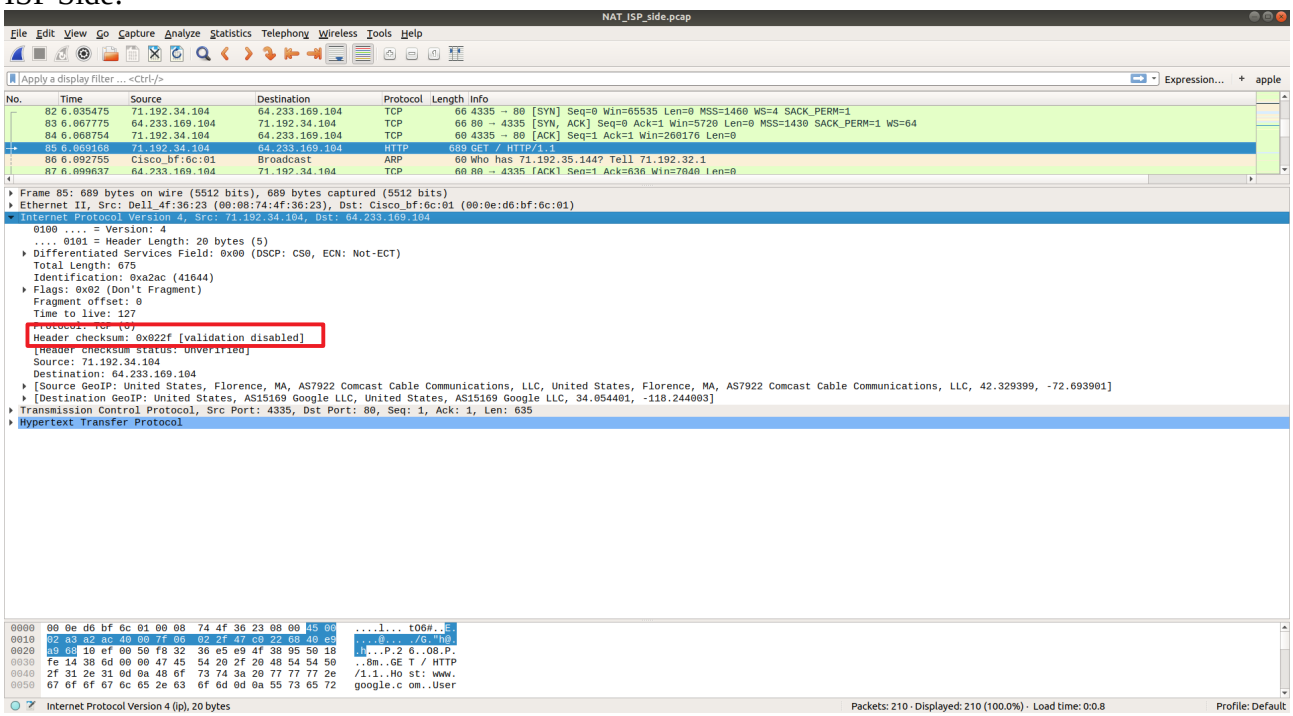
3. soruyla karşılaştırdığımızda sadece Source IP değişmiştir.

7-)

Home Side



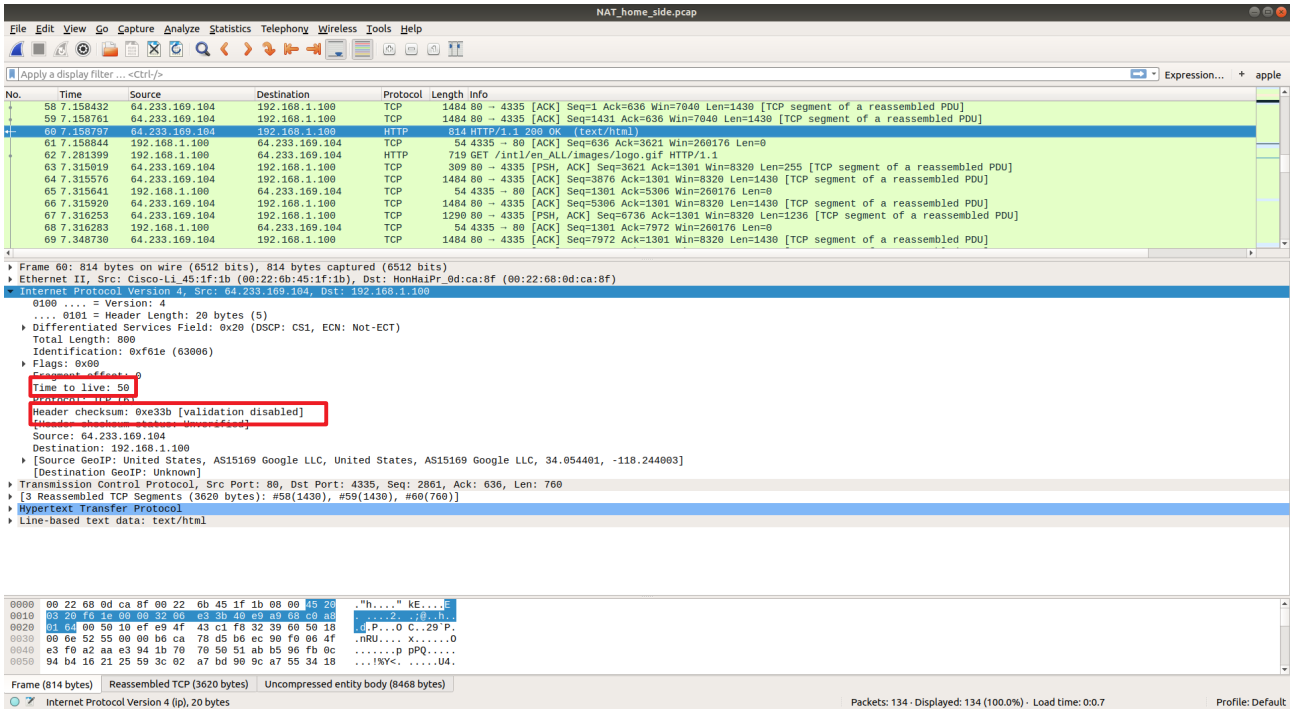
ISP Side:



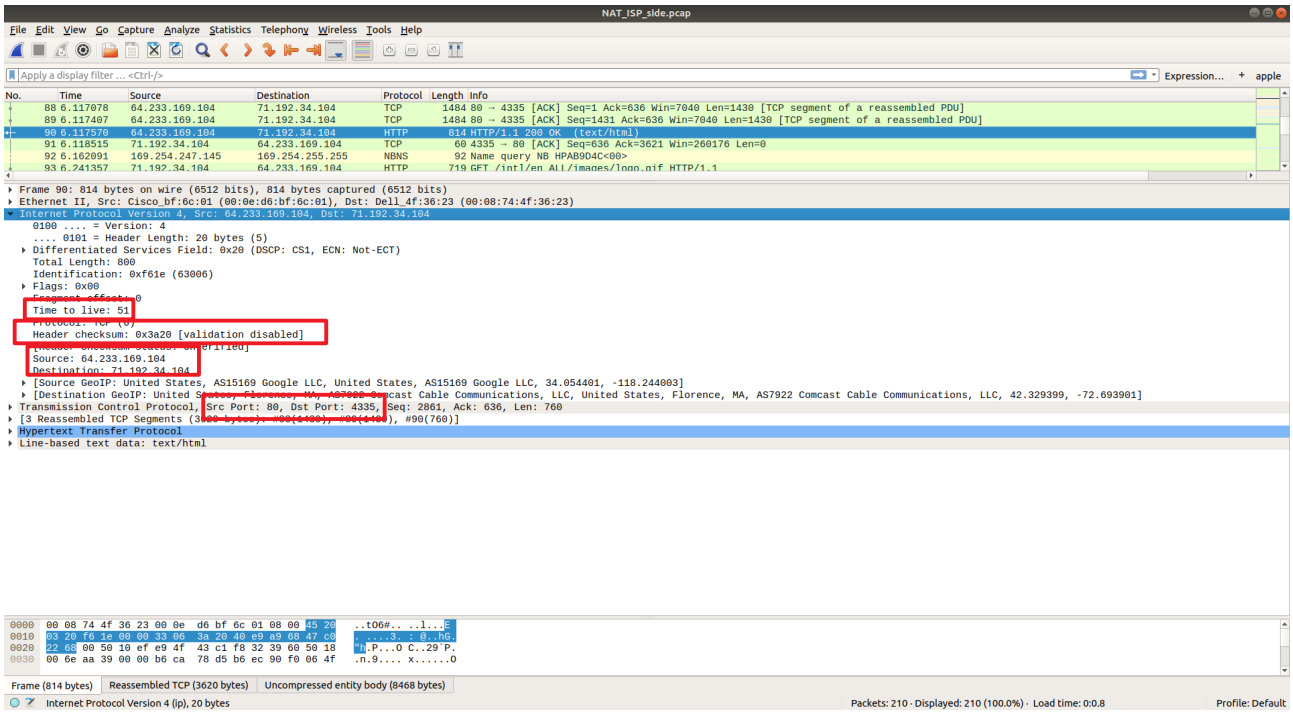
Sadece checksum değişmiştir bunun sebebi de Source IP'nin değişmiş olmasıdır. Cihazların internete bağlanabilmesi için NAT, IP dönüşümü yapmaktadır. Burada da IP değiştiği için checksum değişmiştir.

8-)

Home Side



ISP Side:

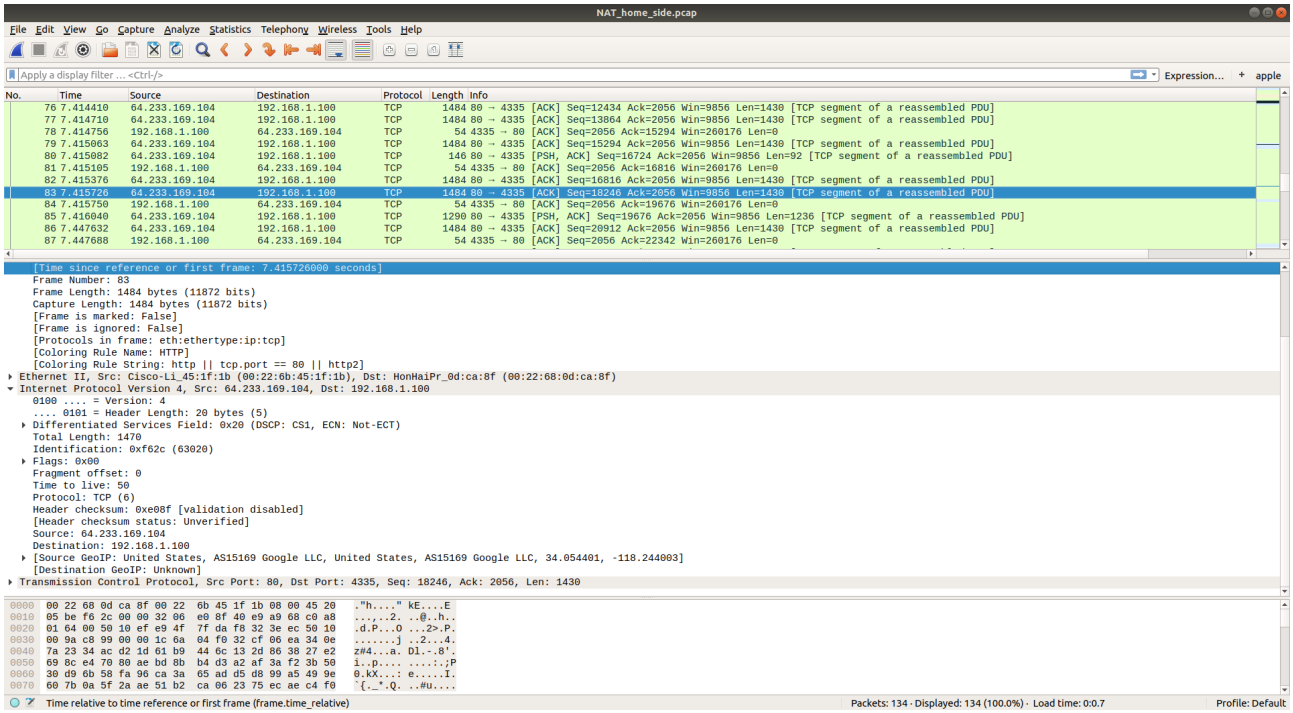


Time: 6.117570000 seconds
Source IP: 64.233.169.104
Source Port: 80
Destination IP: 71.192.34.104
Destination Port: 4335

Time to live ve header checksum değişmiştir.

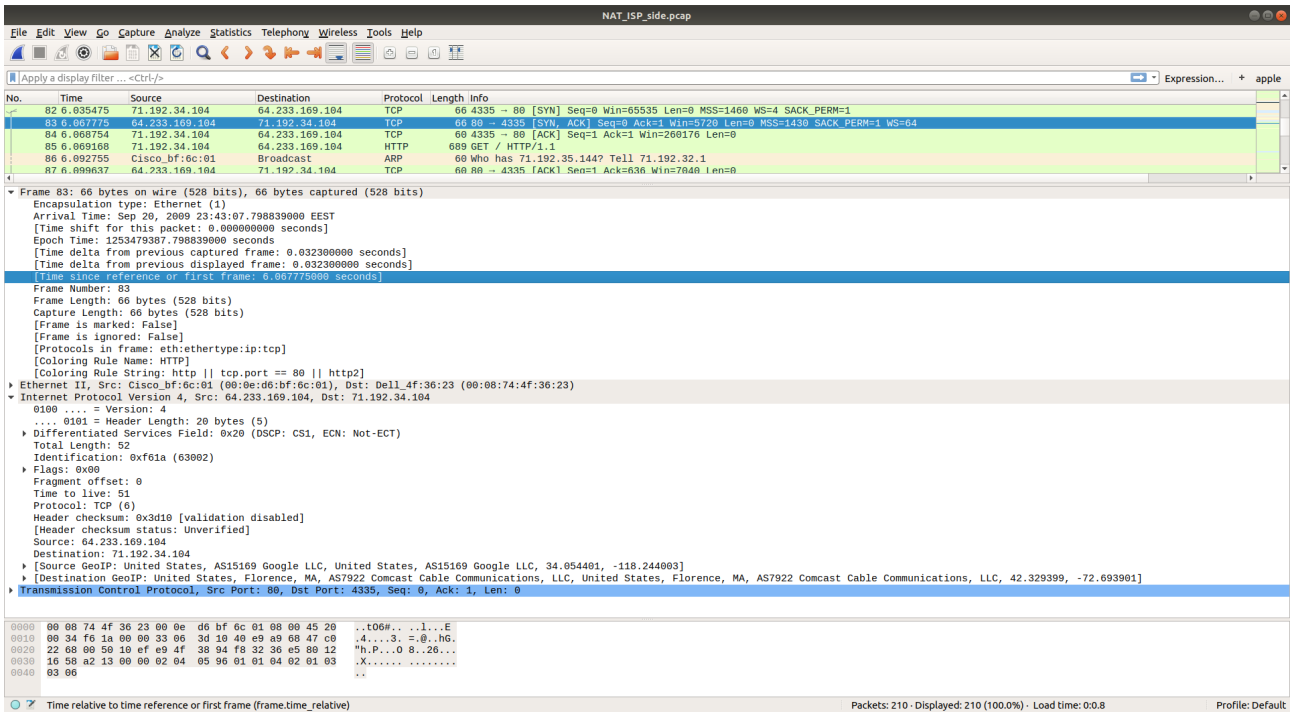
9-)

Home Side



Time: 7.415726000 seconds
Source IP: 64.233.169.104
Destination IP: 192.168.1.100
Time to live değişmiştir (5. soruda 128 idi)

ISP Side



Time: 6.067775000 seconds
Source IP: 64.233.169.104
Destination IP: 71.192.34.104
Identification, Time to live (58 idi), Destination IP değişmiştir.

10-)

WAN (Outside) LAN (Local) IP Port IP Port 71.192.34.104 4335 192.168.1.100 4335

WAN		LAN	
IP	Port	IP	Port
71.192.34.104	4335	192.168.1.100	4335