# Lab07

Exercise1

Q2. Source IP address: 192.168.1.100

Destination IP address: 64.233.169.104

TCP source port: 4335

TCP destination port: 80

Q3. At time 7.158797.

Source IP address: 64.233.169.104

Destination IP address: 192.168.1.100

TCP source port: 80

TCP source port: 4335

Q7. Source IP address: 71.192.34.104

Destination IP address: 64.233.169.104

Source port:4335

Destination port: 80

Compare with request in NAThomeside, Source IP address is completely different while destination IP address is the same.

Q9. Checksum is different. Since IP address in header is different, the checksum becomes different.

Q11.Source IP address: 64.233.169.104

Destination IP address: 71.192.34.104

Source TCP port: 80

Destination port: 4335

Destination IP address is different. Other fields are the same.

Q13.Source IP address: 64.233.169.104

Destination IP address: 71.192.34.104

Source port: 80

Destination port: 4335

Destination IP address is different. The other fields are the same.

Q14.

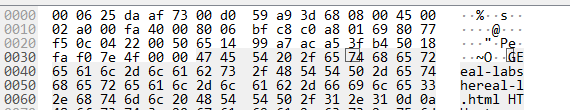
|  |  |
| --- | --- |
| Translation table | |
| WAN side address | LAN side address |
| 71.192.34.104:4335 | 192.169.1.100:4 |
|  |  |

Ex2.

Q2. Destination address: 00:06:25:da:af:73

It could be wrong as well. Since it might be the MAC address of router. Since this IP address may own several servers. Router will connect them together then give the MAC address of router.

Q4. 61 Bytes



This is the screenshot of Ethernet frame. It does not include preamble bytes. It includes Dest MAC, Source MAC, Type/length.

Q5. Ethernet source address: 00:06:25:da:af:73

No, this is the MAC address of switch.

Ex3.

Q1. Source address: 00:d0:59:a9:3d:68

Destination address: ff:ff:ff:ff:ff:ff

Destination address is used for broadcasting. All nodes on LAN receive ARP query.

Q6. Target IP address.

Q8. 00 02

Q9. In the sender MAC address field.

Q10. Destination address: 00:d059:a9:3d:68

Source address: 00:06:25:da:af:73