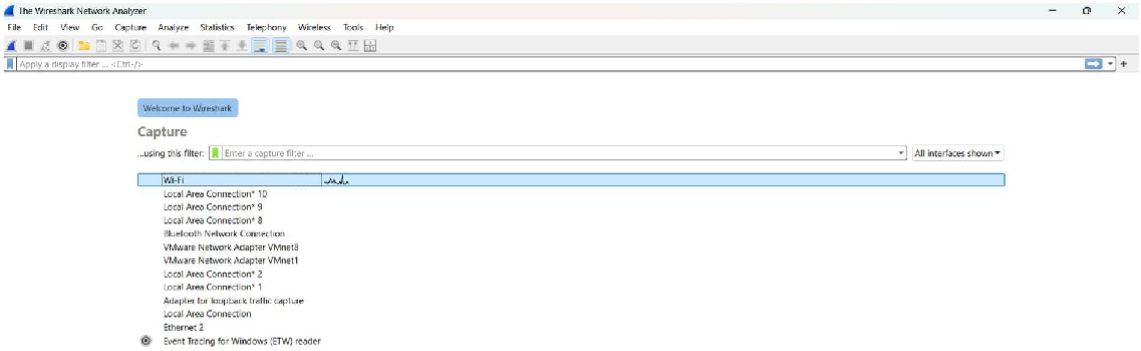
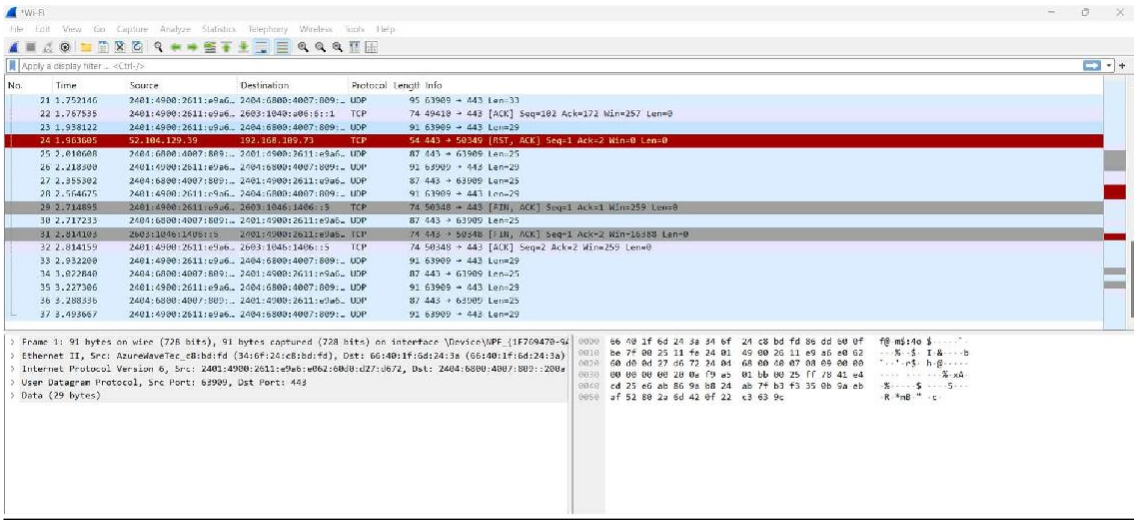
Practical 5

Aim:

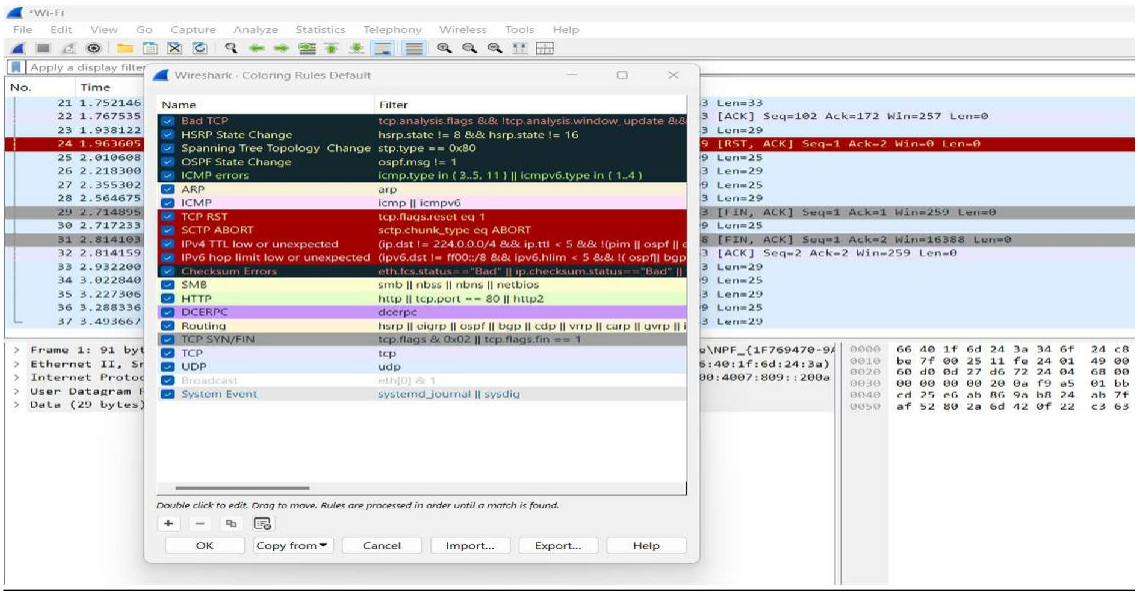
Experiments on Packet capture tool: Wireshark

Capturing Packets:

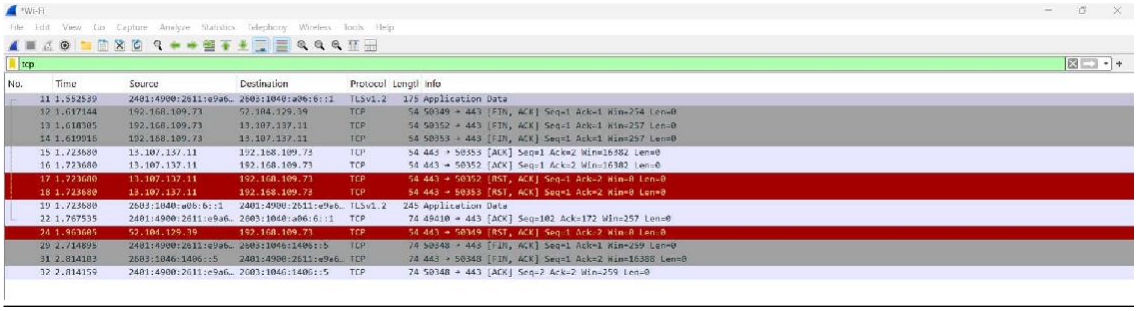




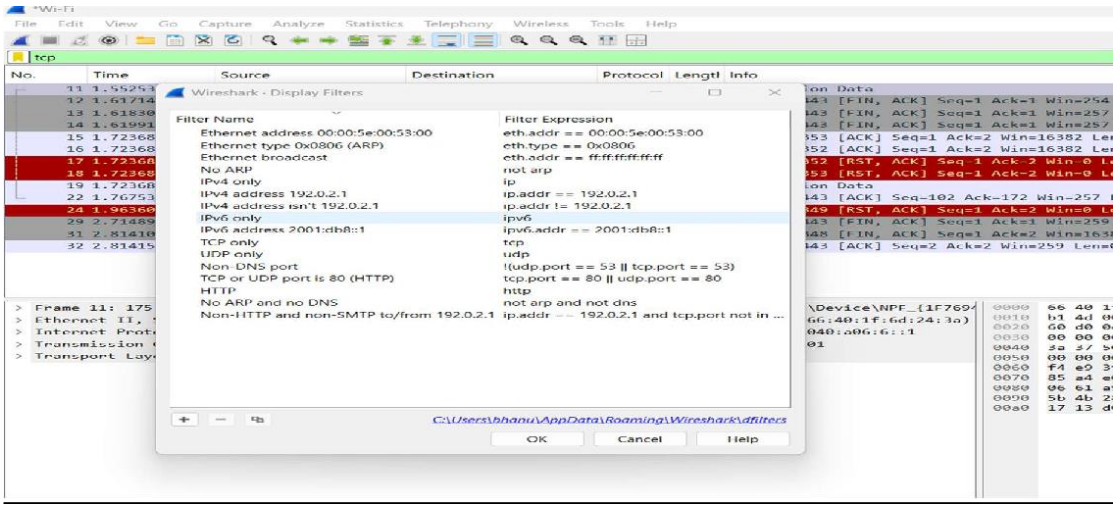
Color Coding:



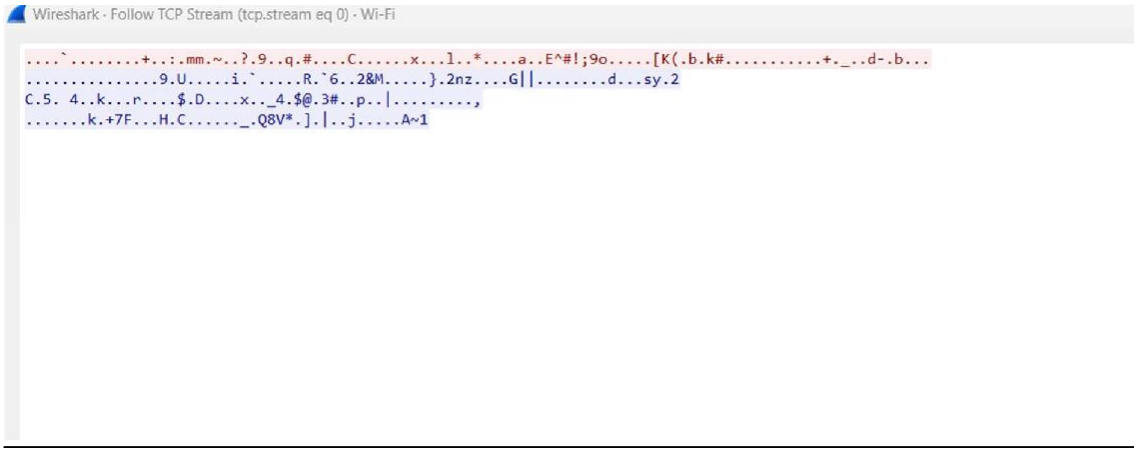
Filtering Packets:



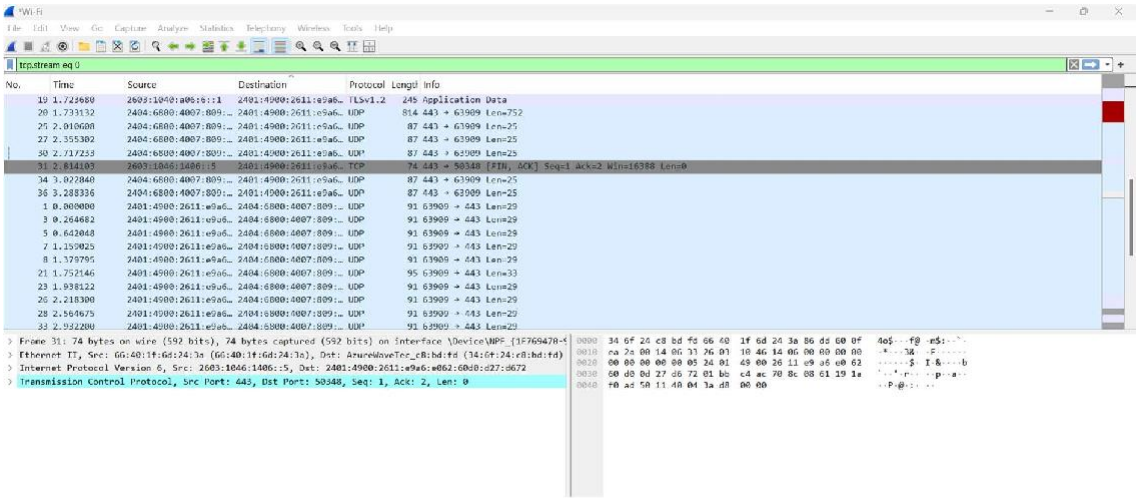
Display Filters:



Tcp Stream:



Inspecting Packets:



Flow Graph:

1. Create a Filter to display only TCP/UDP packets, inspect the packets and provide the flow graph

Procedure

Select Local Area Connection in Wireshark.

Go to capture →option

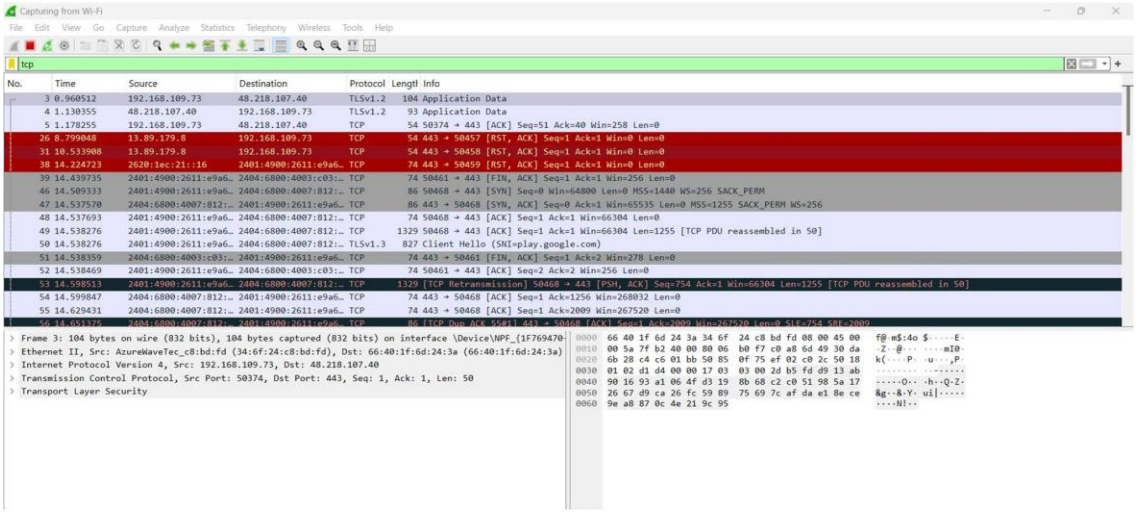
Select stop capture automatically after 100 packets.

Then click Start capture.

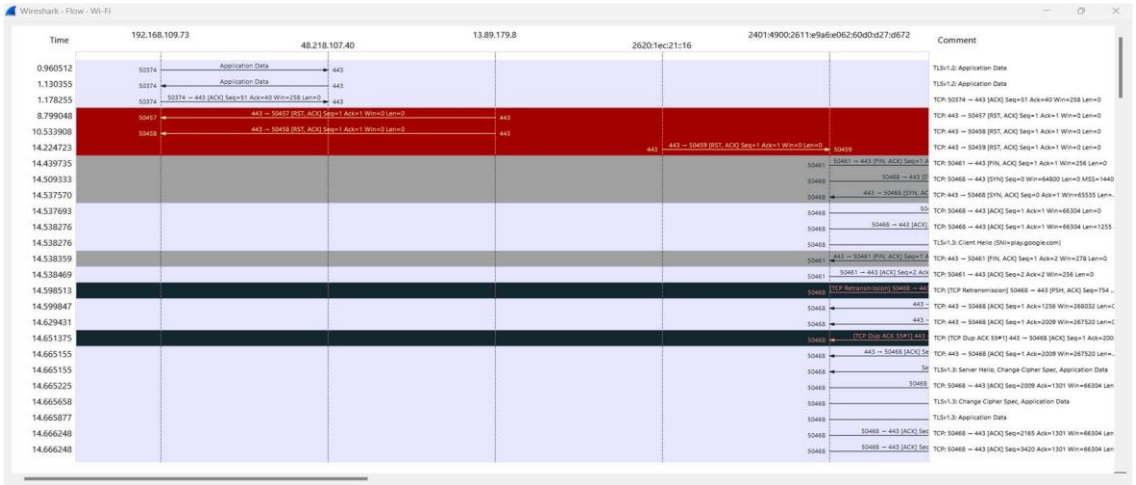
Search TCP packets in search bar.

To see flow graph click Statistics→Flow graph.

Save the packets.



Flowgraph:



2. Create a Filter to display only ARP packets and inspect the packets.

Procedure

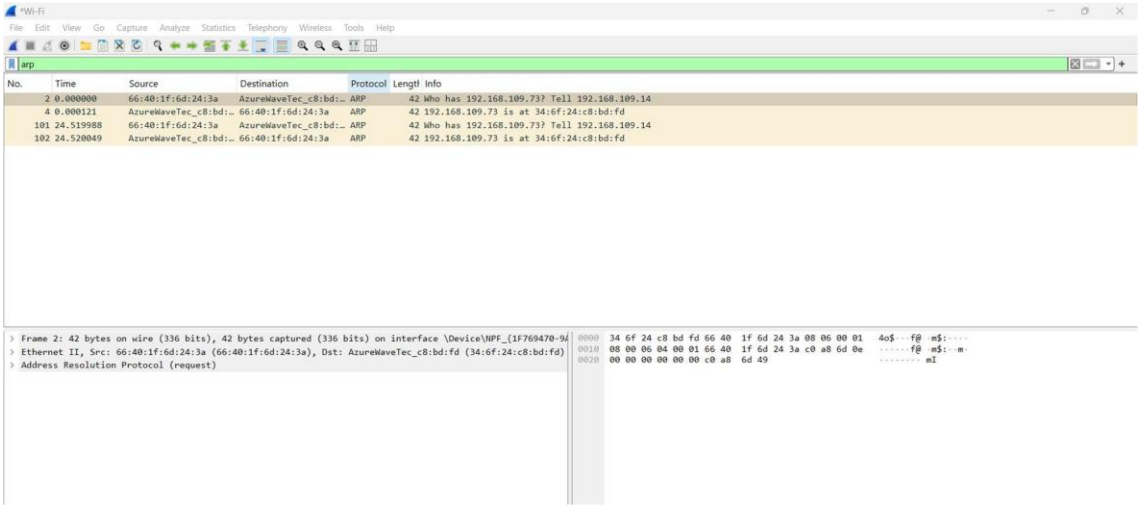
Go to capture →option

Select stop capture automatically after 100 packets.

Then click Start capture.

Search ARP packets in search bar.

Save the packets.



3. Create a Filter to display only DNS packets and provide the flow graph.

Procedure

Go to capture→option

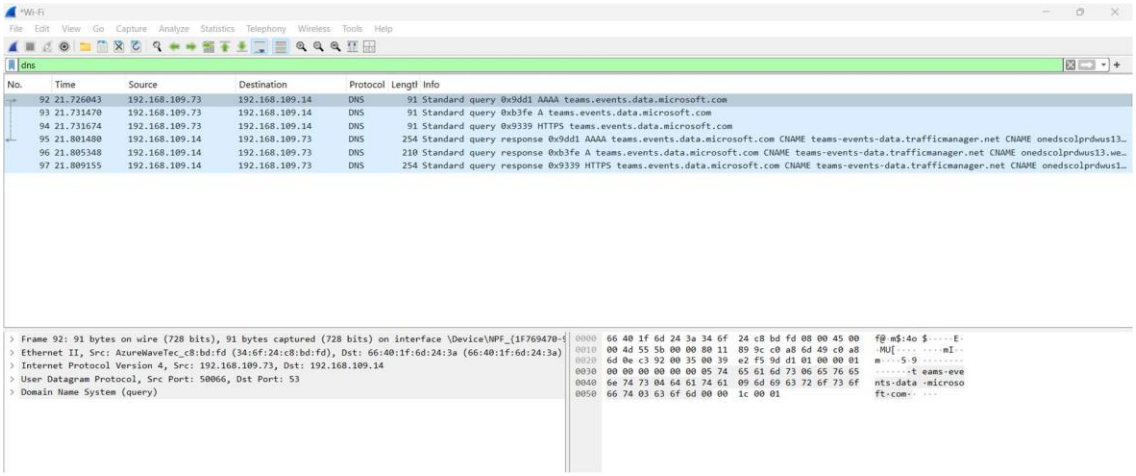
Select stop capture automatically after 100 packets.

Then click Start capture.

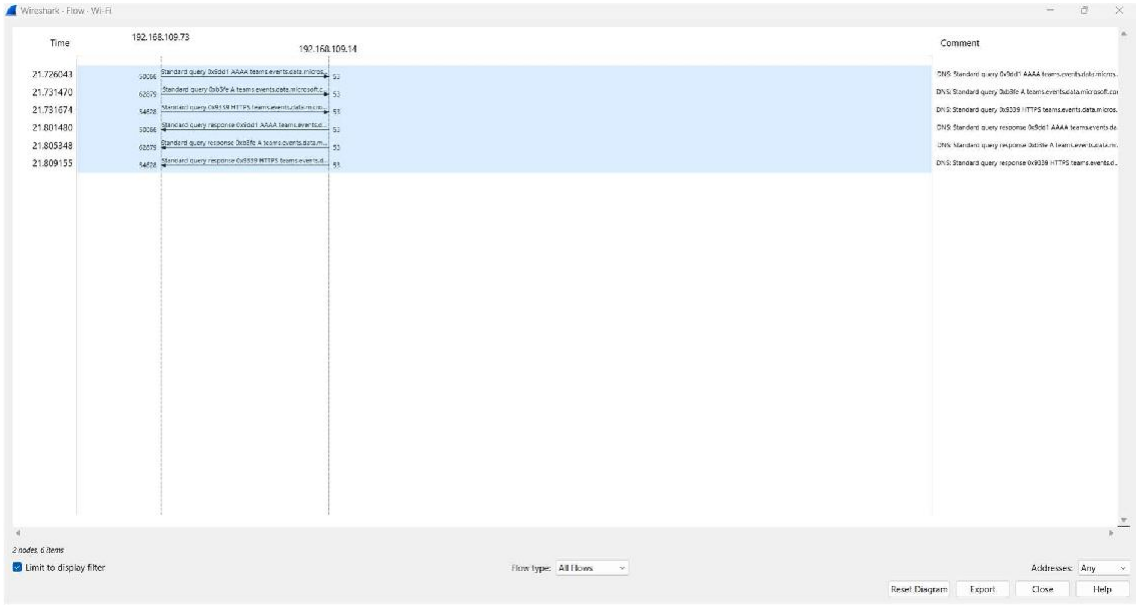
Search DNS packets in search bar.

To see flow graph click Statistics→Flow graph.

Save the packets.



Flowgraph:



4. Create a Filter to display only DHCP packets and inspect the packets.

Procedure

Select Local Area Connection in Wireshark.

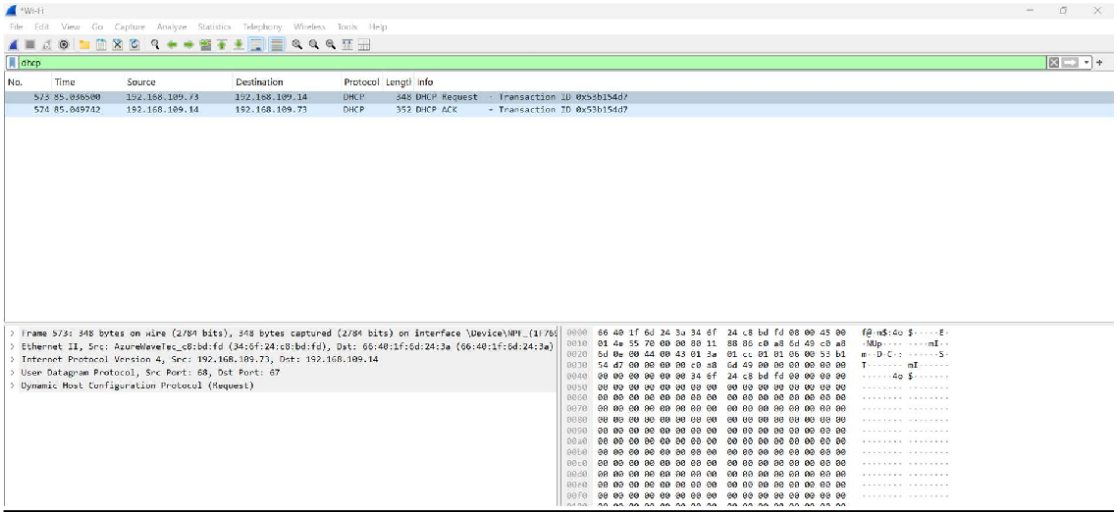
Go to capture →option

Select stop capture automatically after 100 packets.

Then click Start capture.

Search DHCP packets in search bar.

Save the packets


*Wi-Fi
File Edit View Go Capture Analyze Statistics Telephony Wireless Tools Help
dhcp
No. Time Source Destination Protocol Length Info
573 85.036500 192.168.109.73 192.168.109.14 DHCP 348 DHCP Request - Transaction ID 0x53b154d7
574 85.049742 192.168.109.14 192.168.109.73 DHCP 352 DHCP ACK - Transaction ID 0x53b154d7
Frame 573: 348 bytes on wire (2784 bits), 348 bytes captured (2784 bits) on interface \Device\NPF_{1F76
Ethernet II, Src: AzureWaveTec_c8:bd:fd (34:6f:24:c8:bd:fd), Dst: 66:40:1f:6d:24:3a (66:40:1f:6d:24:3a)
Internet Protocol Version 4, Src: 192.168.109.73, Dst: 192.168.109.14
User Datagram Protocol, Src Port: 68, Dst Port: 67
Dynamic Host Configuration Protocol (Request)