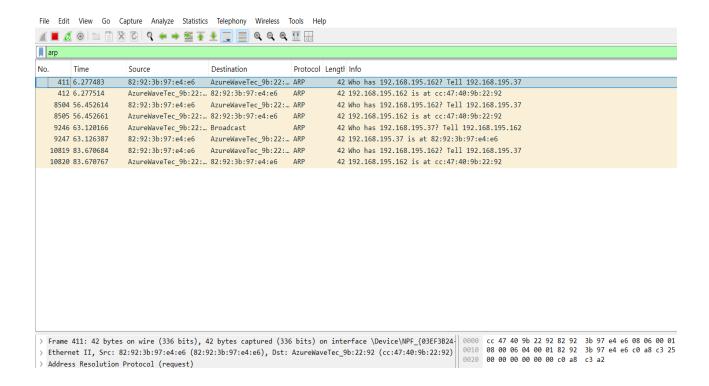
## 1) Capture and analyse ARP packets using Wireshark. Inspect the ARP request and reply frames, and discuss the role of the sender's IP and MAC address in these packets.

The ARP protocol is used for mapping an IP address to a MAC address within a local network.

When a device needs to send data to another device within the same subnet but does not know its MAC address, it sends an **ARP Request**.

The target device responds with an **ARP Reply**, providing its MAC address.

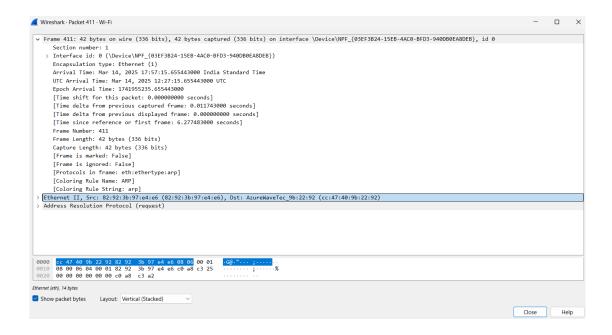


The source MAC address: 82:92:3b:97:e4:e6

The sender is asking "Who has 192.168.195.162? Tell 192.168.195.37".

The device with 192.168.195.162 responds, saying "192.168.195.162 is at cc:47:40:9b:22:92".

## **ARP Request**



## **ARP Reply**

