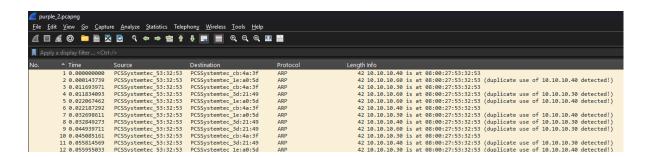
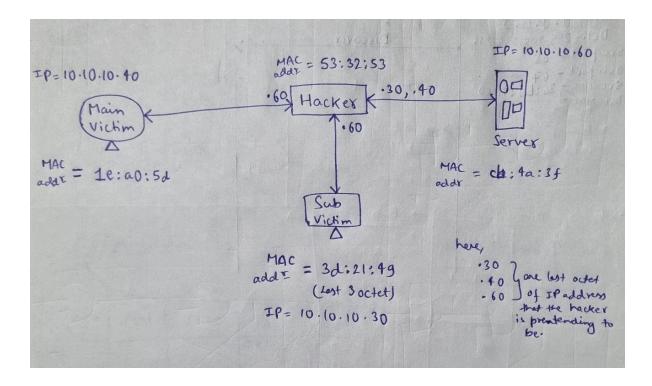
## Scenario 2 - Something is wrong!

- From the first 12 packets we can observe that the device having MAC address 08:00:27:53:32:53 is multicasting unsolicited ARP reply packets (reply without response) to multiple hosts that includes MAC addresses 08:00:27:cb:4a:3f, 08:00:27:1e:a0:5d, 08:00:27:3d:21:49.
- For simplicity let's give short names to devices that are as follows:
  - 1. MAC address 08:00:27:53:32:53 = HACKER
  - 2. MAC address 08:00:27:cb:4a:3f = SERVER
  - 3. MAC address 08:00:27:1e:a0:5d = MAIN VICTIM
  - 4. MAC address 08:00:27:3d:21:49 = SUB VICTIM
- By carefully analysing the ARP packet, IP address and MAC address we can say that HACKER is trying to pretend as SERVER, to the MAIN VICTIM and SUB VICTIM, and HACKER is trying to pretend itself as MAIN VICTIM and SUB VICTIM to SERVER, Thus, HACKER in this case is performing Man in the middle ARP poisoning attack.
- Screenshot



We can reach to following diagram after the analysis of first 12 packets:

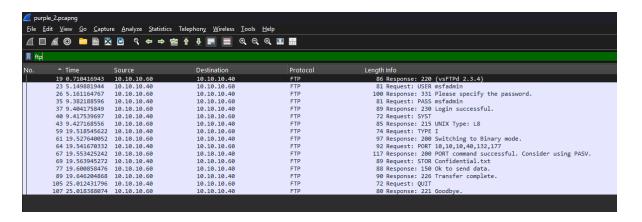


 Now after successfully poisoning the ARP Table of all the VICTIMS and SERVER, the HACKER can now capture and sniff/listen the traffic and that is what exactly happening. The HACKER is intercepting FTP packets that the MAIN VICTIM is sending to the SERVER in which we can clearly see that HACKER has intercepted following login credentials:

```
USER = msfadmin

PASSWORD = msfadmin
```

- Also the HACKER has intercepted the file name as confidential.txt that is being transferred from SERVER to the MAIN VICTIM. After that (after packet 69) the connection is closed using FIN, ACK, FIN, ACK, four way handshake.
- Screenshot:



## **FINAL CONCLUSION**

We detected Man in the Middle ARP poisoning attack.