Kadejha Jones

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Lab 4

Our address 10.100.100.140

Link ether: f4:4d:30:6a:a4:76

Name of the interface for the 10.100.100 network enp3s0

- 1. View your ARP table on the main NUC, save it in the qanda
 - a. 10.31.0.1 dev wlp2s0 lladdr 94:24:e1:ae:bc:db STALE
 10.100.100.120 dev enp3s0 lladdr f4:4d:30:6a:9c:db STALE
 10.31.254.250 dev wlp2s0 lladdr 00:1a:1e:05:09:00 STALE
- 2. Start capturing in Wireshark on the ethernet interface on the NUC
- 3. Make sure the table in front/behind you is ready and is also capturing packets
- 4. Ping your neighbors main NUC
 - a. Stop the ping after a few successes (Ctrl-C)
 - b. Stop your wireshark capture
- 5. View your ARP table again, save it in the qanda
 - a. 10.31.0.1 dev wlp2s0 lladdr 94:24:e1:ae:bc:db REACHABLE
 10.100.100.120 dev enp3s0 lladdr f4:4d:30:6a:9c:db STALE
 10.31.254.250 dev wlp2s0 lladdr 00:1a:1e:05:09:00 STALE
- 6. Does the IP address match what you have pinged?

- a. Yes, it does still match.
- 7. What is the ethernet address for the new IP address?
 - a. f4:4d:30:6a:9c:db
- 8. Does it match your neighbors?
 - 9. Wireshark
 - a. Write a filter to show both arp and icmp packets (probably an OR statement)
 - 1. arp || icmp
 - b. What was the ARP request and response sent before your ICMP ECHO?
 - 1. Who has 10.100.100.120? Tell 10.100.100.140
 - 2. 10.100.100.120 is at f4:4d:30:6a:9c:db
 - c. If you have no ARP data, it's possible the ARP entry was already in your table. Let me know if this happens to you
 - 1. Didn't happen in our experience.