

## Networks Attacks

Date :2023

Technologies in use: Python, Scapy, Wireshark

During my first year at university, I collaborated with a third-year peer studying network technology. Together, we delved into the realm of cyber-attacks. I assisted in configuring the environment necessary for testing these attacks and fine-tuning packet settings for Scapy.

Specifically, we explored the following attacks:

- ARP Poisoning: This involved manipulating ARP packets to spoof a target's MAC address, enabling the setup of a Man-in-the-Middle (MITM) attack.
- DHCP Starvation: By inundating the DHCP server with excessive requests, we forced it to exhaust all available IP addresses. This tactic allowed us to subsequently replace the DHCP server, facilitating a MITM attack and more.
- DNS Cache Poisoning: This attack strategy entailed responding to DNS queries with falsified information, redirecting targets to a custom location of our choosing. This could include hosting a phishing website or any other desired destination.