# Man in the middle attacks

Man in the middle attacks are possible because of ARP spoofing:

* ARP is a simple protocol used to map IP addresses of a machine to its MAC address
* The hacker sends an ARP request to all the clients on the network asking which one has a certain IP address
  + An ARP response will come back with a MAC address

Arp -a brings up the ARP table of that PC

ARP Spoofing:

* We can send two ARP responses. One to the victim and one to the router pretending we are the victim
  + A black sign with white text

    Description automatically generatedThis makes the victim think we are the router and they will start sending requests to us and then we can send requests to the router pretending to be the victim.