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## The Arkansas Cyber Defense Center

### Man in the Middle Attack

In this type of attack, the perpetrator positions themself in a conversation between a user and an application in order to impersonate one of the parties or eavesdrop to gain information.

#### What do threat actors want?

The goal of this attack is to steal information (login credentials, credit card numbers, etc.). Additionally, it can be used to gain access to a secured network perimeter.

#### Tactics of this kind of attack:

<u>IP Spoofing:</u> Altering packet headers to disguise an IP address <u>DNS spoofing:</u> Altering a website's address record in order to catch the websites incoming traffic

<u>ARP spoofing:</u> Linking the attacker's MAC address to the IP address of a legitimate user on a LAN to get access to the user's traffic.

#### **Prevention:**

- Avoid using WiFi that isn't password protected.
- Heed the warnings of browser notifications saying the website is unsecure.
- Log out of applications that aren't in use.
- Avoid public networks.



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