

# Hacking

## Assignment: Man in the middle by ARP Cache Poisoning

### Prologue

You have successfully finalized the IT-Security course. You will like to investigate more!

### The Mission

You are to discuss and apply different techniques to break network security.

### Purpose

The purpose is to apply various tools on Windows and Linux to understand how to spoof, sniff etc. on a network. In order to do this we must be a Man in the Middle. ARP Cache poisoning is one of the vulnerabilities we can use. You can use Cain and Abel for ARP poisoning.

### Step 1: Installation of Cain and Abel

- On our local LAN or your own hot spot download and install Cain and Abel from oxid.it.
- [www.oxid.it](http://www.oxid.it)

### Step 2: ARP Cache Poisoning

- Now act as a man in the middle by following the tutorial on: [http://www.windowsecurity.com/articles-tutorials/authentication\\_and\\_encryption/Understanding-Man-in-the-Middle-Attacks-ARP-Part1.html](http://www.windowsecurity.com/articles-tutorials/authentication_and_encryption/Understanding-Man-in-the-Middle-Attacks-ARP-Part1.html)

### Hint:

If you don't already have installed WinPcap (WinPcap is the industry-standard tool for link-layer network access in Windows environments) then make sure to restart your machine after installing WinPcap.

After running Cain and Abel, if you cannot see an IP address in the Configure window (when you click on Configure menu) Then do the following

1. Open "Network and Sharing center"
2. Choose "Change adapter settings"
3. Right click on Wi Fi and Choose properties
4. Double click "internet protocol version 4(TCP/Ipv4).
5. Click on Advanced settings
6. Click on DNS Tab.
7. Check the "Use this connection's DNS suffix in DNS registration" check box

