

## Lab 6.5.6 Poisoning and Spoofing DNS

*From TestOut CompTIA Security+ Course*

In this lab I will be carrying out a DNS Spoofing attack to redirect traffic as part of a Man-In-The-Middle approach.

### **The scenario for this lab is as follows:**

“You are the IT security administrator for a small corporate network. You want to spoof the DNS to redirect traffic as part of a man-in-the-middle attack.

In this lab, your task is to:

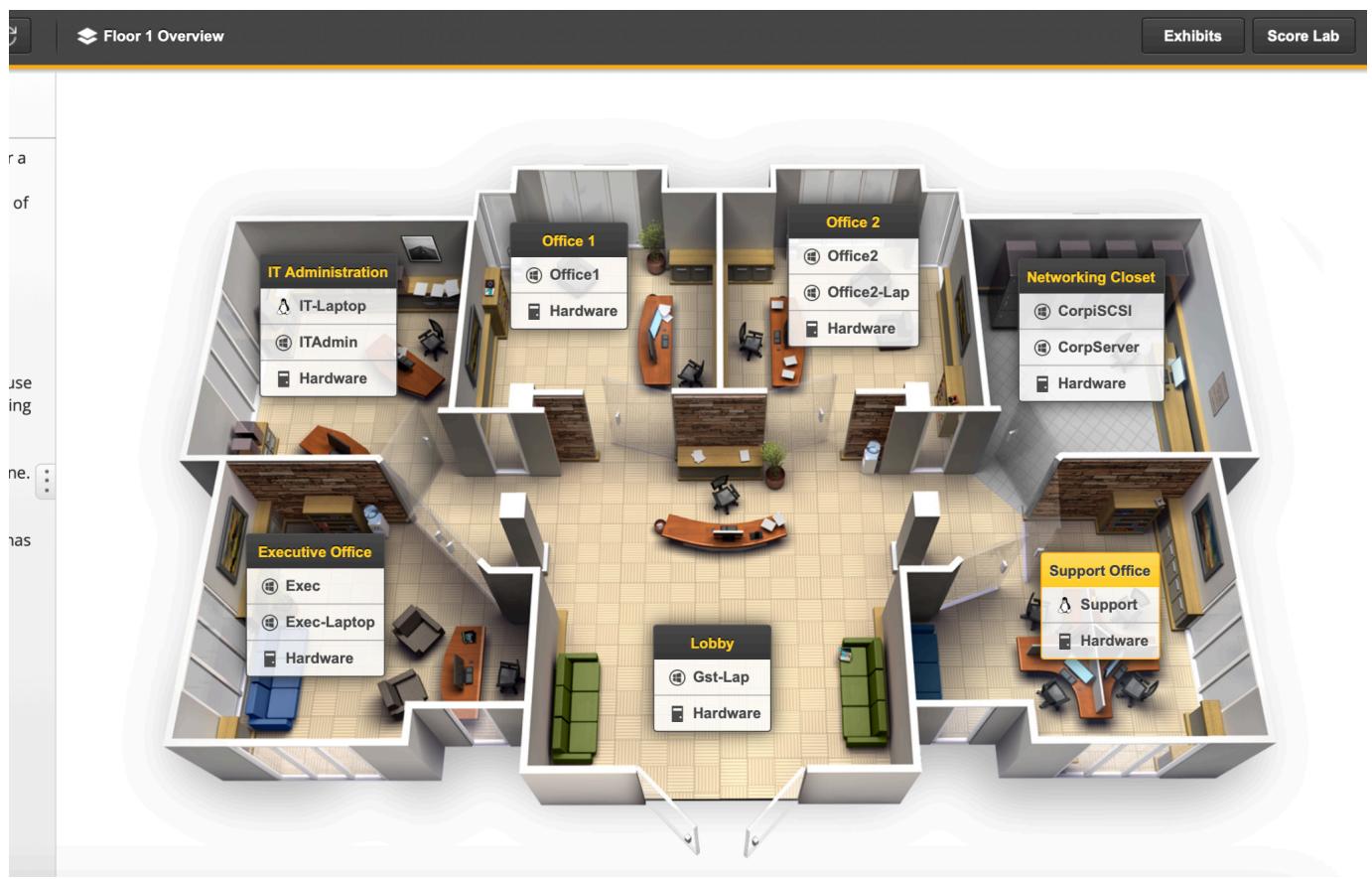
- (Optional) From the **Exec** computer, access **rmksupplies.com** and verify that site can be accessed.
- From the Linux **Support** computer, use Ettercap to begin sniffing and scanning for hosts.
- Configure the **Exec** computer (192.168.0.30) as the target 1 machine.
- Initiate DNS spoofing.
- From the **Exec** computer, access **rmksupplies.com** and verify that it has been redirected to a different site.”

To start I will begin with verifying that I can reach this website from the **Exec** Computer.

Note: This Lab takes place in a hypothetical office with the ability of the user/learner (myself) to change workstations and navigate through a virtual space.

See picture below:

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I will first click on the Windows machine in the Exec office. Opening a web browser and navigating to **rmksupplies.com** to verify it is online.

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**TestOut**

Floor 1 Overview Executive Office Exec Exhibits Score Lab

**Scenario** (1)

You are the IT security administrator for a small corporate network. You want to spoof the DNS to redirect traffic as part of a man-in-the-middle attack.

In this lab, your task is to:

- (Optional) From the Exec computer, access [rmksupplies.com](http://rmksupplies.com) and verify that site can be accessed.
- From the Linux Support computer, use Ettercap to begin sniffing and scanning for hosts.
- Configure the Exec computer (192.168.0.30) as the target 1 machine.
- Initiate DNS spoofing.
- From the Exec computer, access [rmksupplies.com](http://rmksupplies.com) and verify that it has been redirected to a different site.

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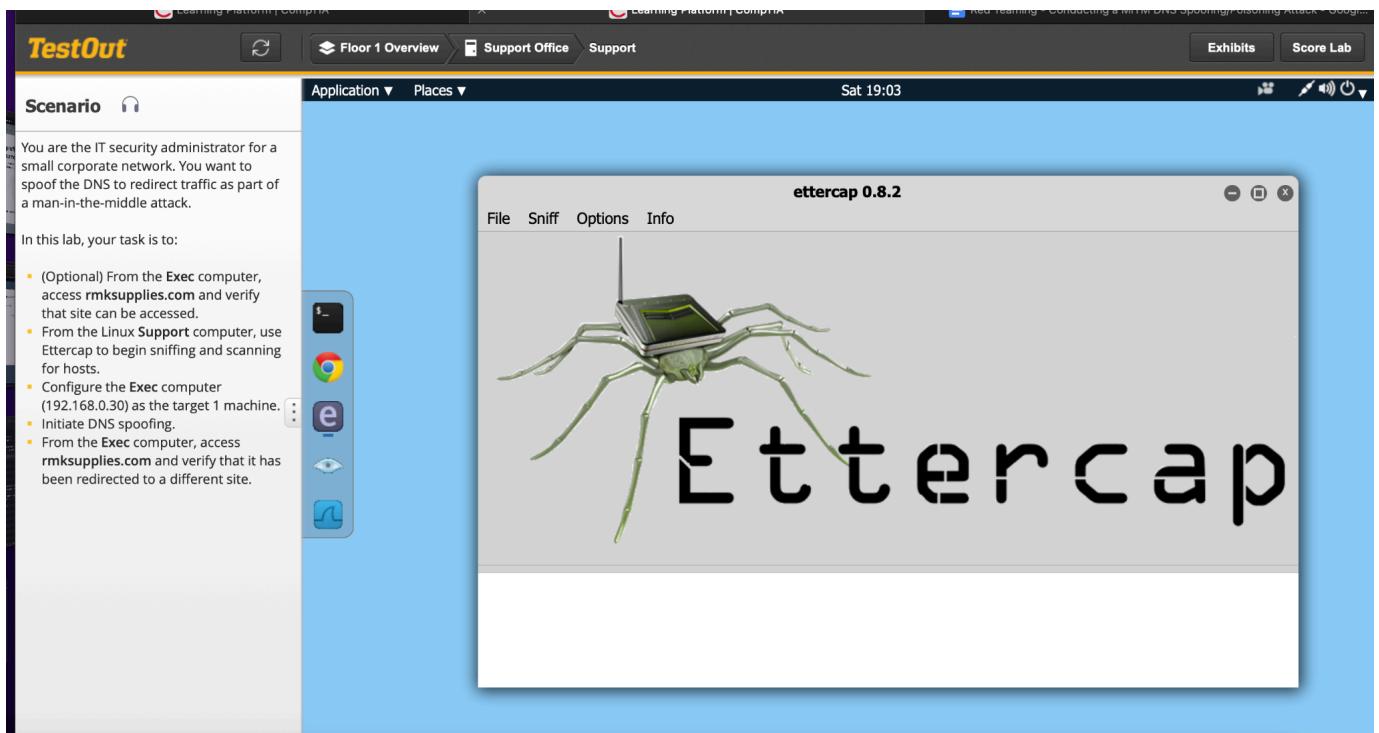
Type here to search

That means that we are able to access the company's website. I will now put my **Ethical Hacker** hat on and attempt to carry out a DNS Spoofing attack.

I'll switch back to my Linux Machine called **support** within the office.

To start my attack I will use Ettercap on my attacking Kali Linux machine.

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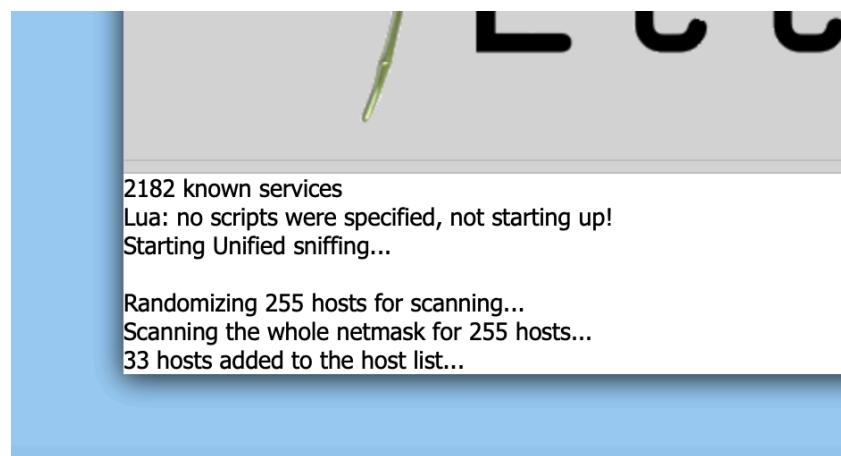


From here at the top menu bar I'll select **Sniff > Unified Sniffing**. After selecting that I see the logging start at the bottom.

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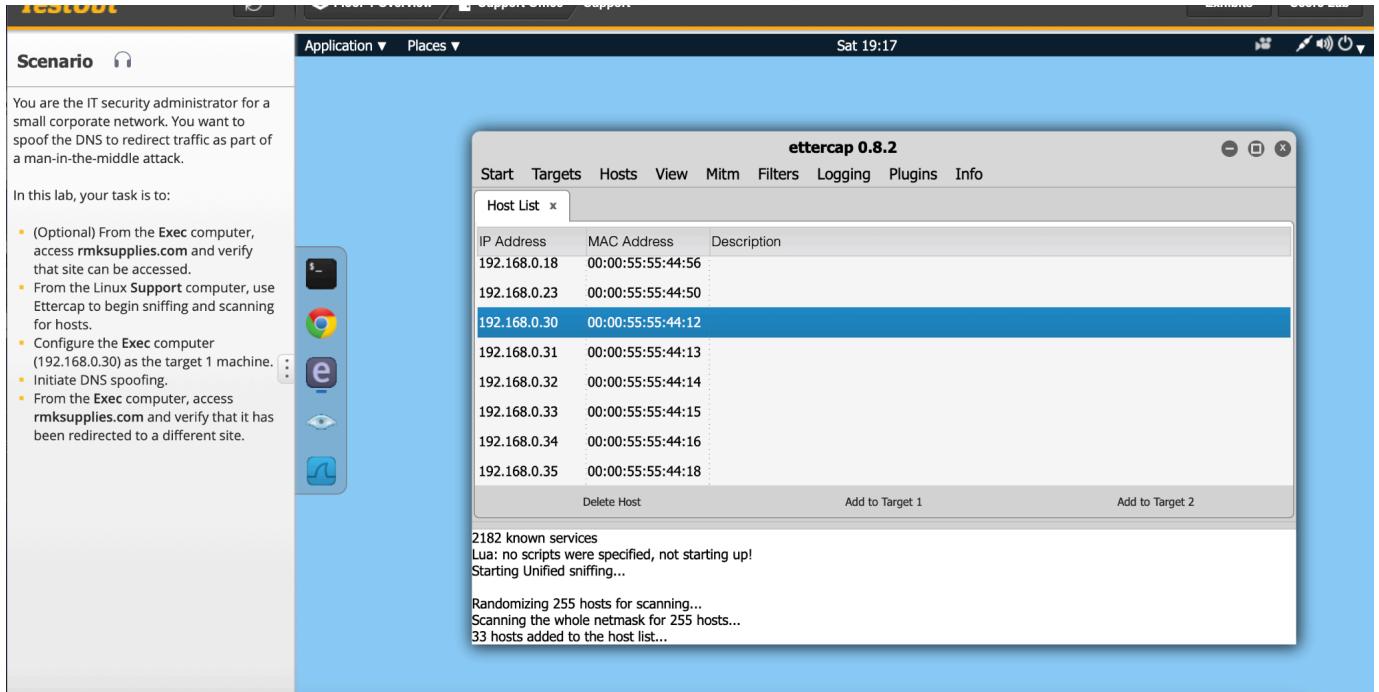


Now we need to scan the network for hosts to attack. I'll click **Hosts > Scan for Hosts** at the top menu.



According to the Lab we want to attack the **Executive's Computer** which resides on **192.168.0.30**. To select the IP, I'll open the **Hosts > Hosts list** and select it from there.

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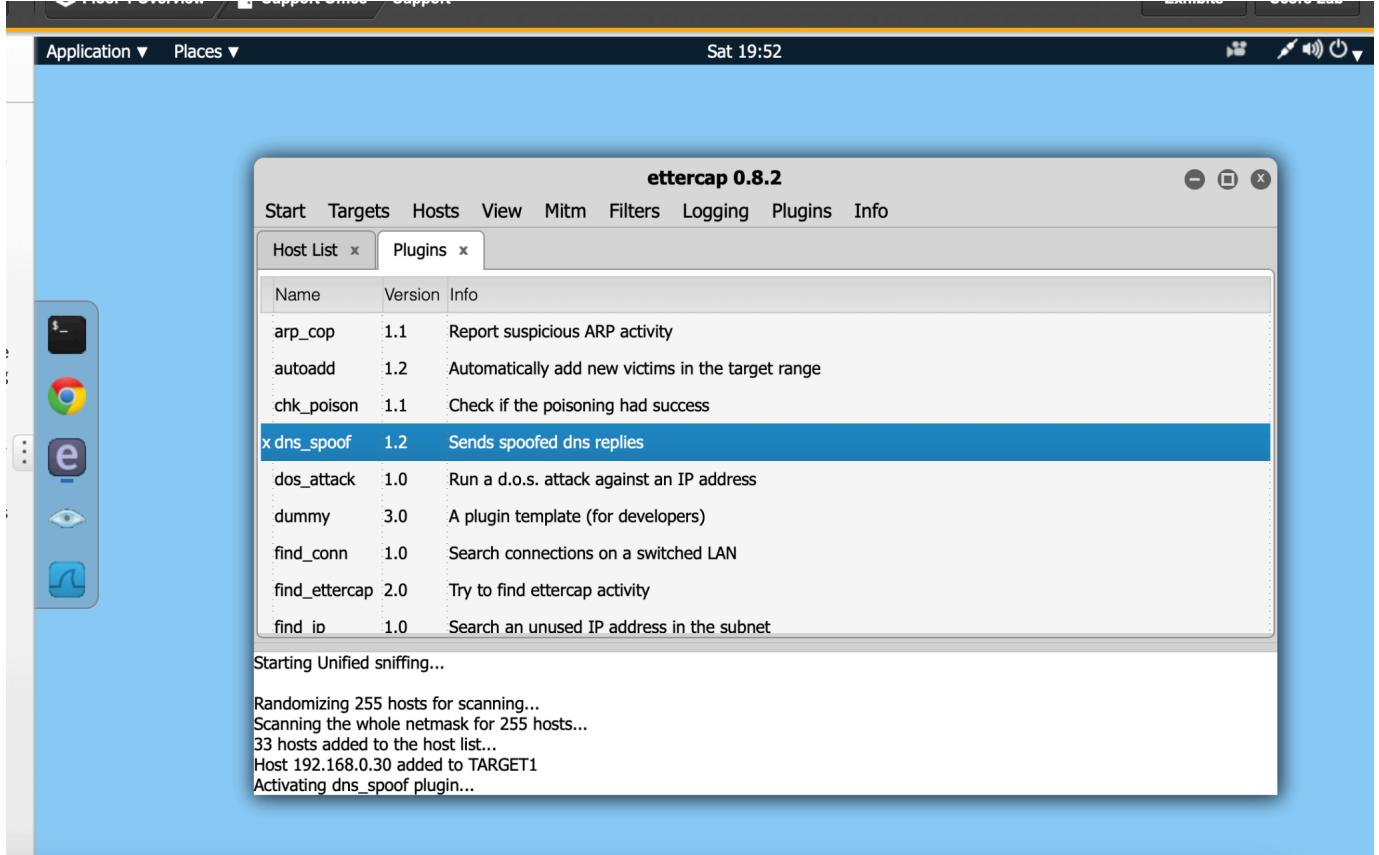


Once highlighted I'll click **Add to Target 1** and I see in the logging that **192.168.0.30** was indeed added.

To start the DNS Spoofing attack I'll need to install the plug in within Ettercap. Clicking **Plugins**, I will select **dns\_spoof** plugin.

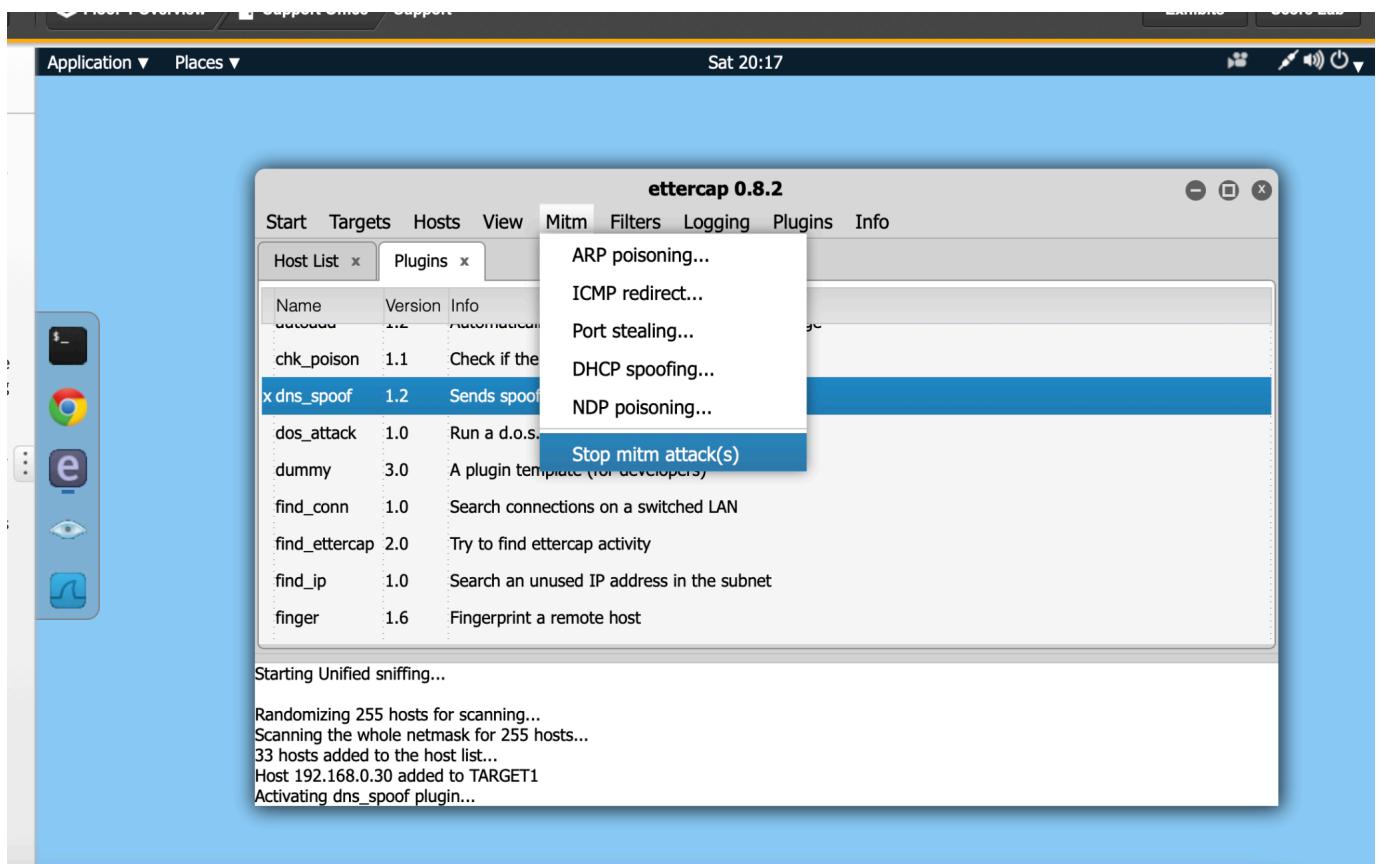
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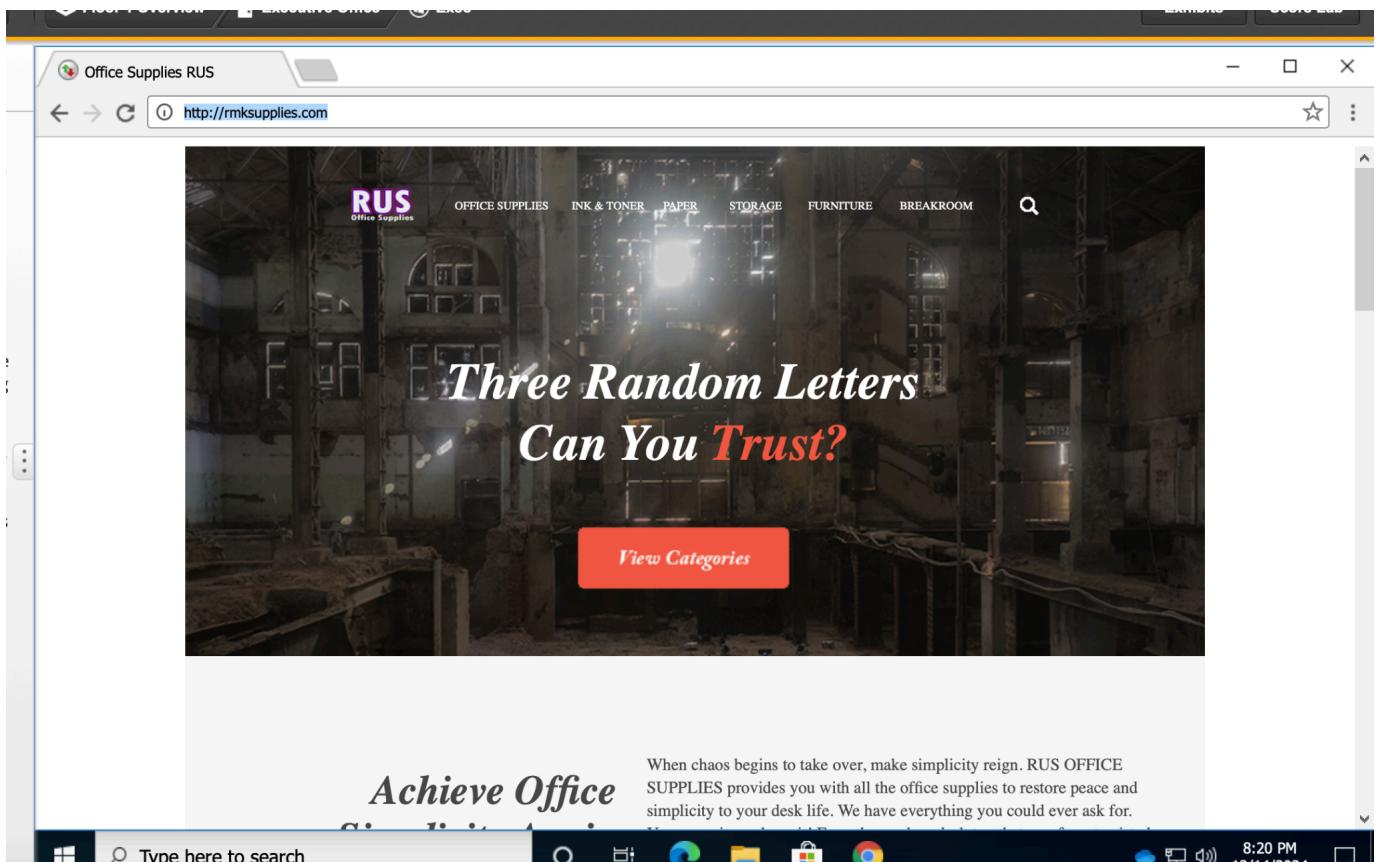
Now that the plugin is loaded I will select MiTm tab in ettercap and select **MiTM > ARP Poisoning**. We will use ARP Poisoning to carry out the attack.

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I see that the attack is running because in the menu above it prompts me if I want to Stop MiTM attack, which means it must be running. Now let's check on the victim machine to see what is happening.

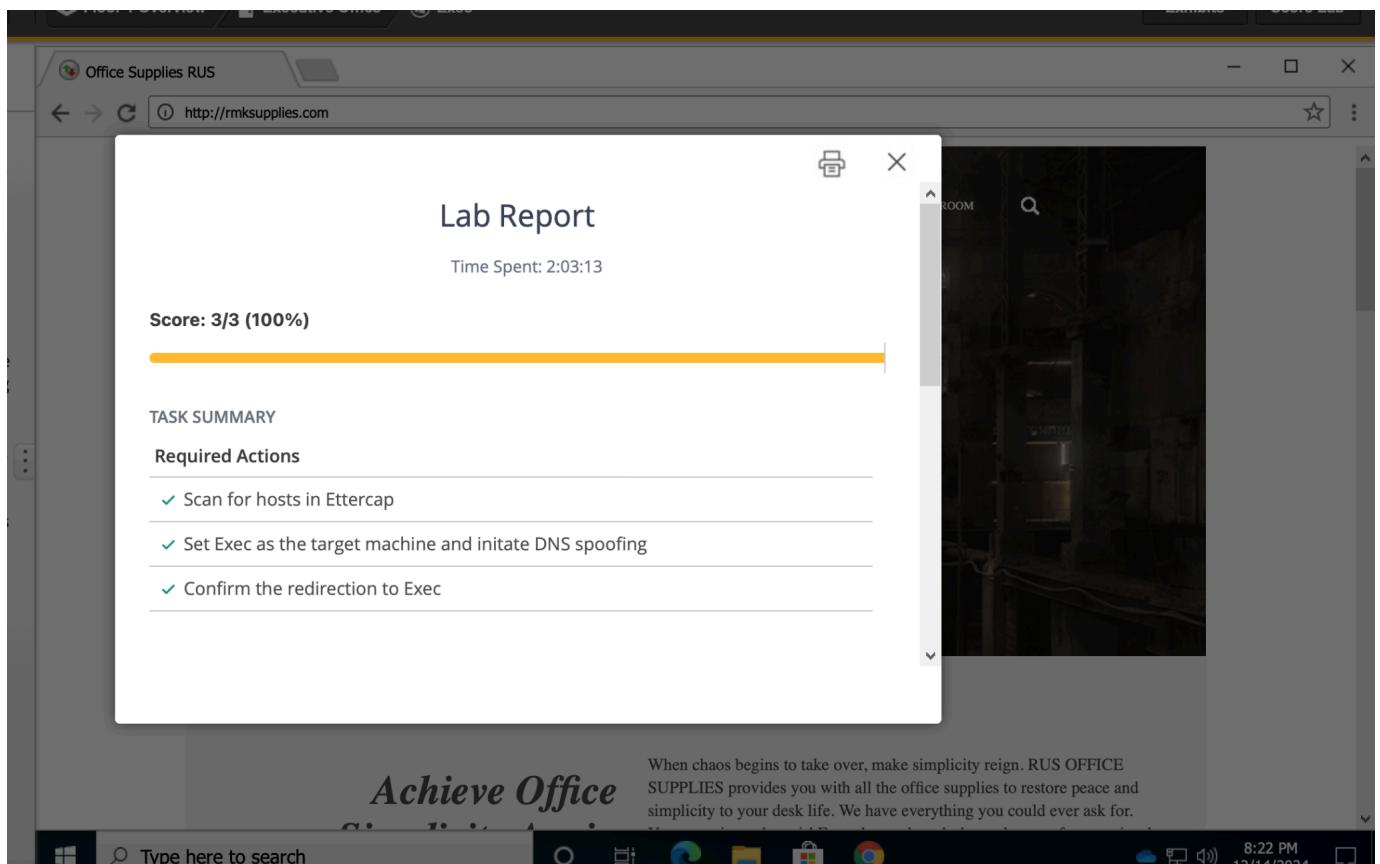
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Notice how the site has been redirected to **RUS** office supplies which is not RMK. This means our attack has been successful!

This now concludes this lab.

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