

ARP Cache Poisoning Attack Lab

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1. Overview

The Address Resolution Protocol (ARP) is a communication protocol used for discovering the link layer address, such as the MAC address, given an IP address. The ARP protocol is a very simple protocol, and its basic and implementation are similar to many others. The ARP cache poisoning attack is a network attack against the ARP protocol. Using such an attack, attackers can find the victim user accepting forged IP-to-MAC mappings. They can cause the victim's packets to be delivered to the computer with the forged MAC address, leading to potential exposure to various attacks.

The objective of this lab is for students to gain the theoretical experience on the ARP cache poisoning attack, and learn what challenges can be caused by such an attack. In particular, students will use the lab to design a means to the middle attack, where the attacker can intercept and modify the packets between the two victims. It could be, however, dangerous if this lab is for students to practice how to sniff and spoofing data, as there are essential skills in network security, and they can do building blocks for many network attack and defense tools. Students will use Wireshark to conduct lab tasks. They will cover the following topics:

- The ARP protocol
- The ARP cache poisoning attack
- Mitigation to the middle attack
- Script programming

Below, I described concepts of the ARP protocol and attacks can be found in the following:

- Section 1 of the SEC21 Lab on [GitHub](https://github.com/wookbingoh/SEC21-Lab), described Section 1 of this lab approach by Wookbing Oh. See details at <https://github.com/wookbingoh/SEC21-Lab/blob/master/1%20Lab%201.md>.

Lab environment. – This lab has been tested on the SEC21 Ubuntu 20.04 VM. This can be edited to your host setup from the SEC21 website, and on the SEC21 VM via your own computer. However, most of the SEC21 lab can be conducted on the cloud, and you can follow our instruction to create a SEC21 VM on the cloud.

2. Environment Setup using Container

In this lab, we need three computers. We use containers to set up the lab environment, which is depicted in Figure 1. In this setup, we have an attacker machine (Host M), which is used to launch attacks against the other two machines, Host A and Host B. These three machines must be on the same LAN because the ARP cache poisoning attack is limited to LAN. We set container to set up the lab environment.

Arp Cache Lab Manual

Jonathan S. Weissman



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