

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 misrouted 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 method to detect a man-in-the-middle attack, where the attacker can intercept and modify the packets between the two victims. It could be a useful opportunity for students to practice their security and system skills, as they use essential skills in network security, and they can also building skills for many network attack and defense tasks. Students will use Wireshark to conduct lab tasks. They will cover the following topics:

- The ARP protocol
- The ARP cache poisoning attack
- Man-in-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 <https://www.wookbing.com/2021/02/21/SEC21-Lab-01/>

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 the SEC21 VM can join your network. 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 can implement to set up the lab on Windows.

Arp Cache Lab Manual

**Vincent J. Nestler, Keith
Harrison, Matthew P. Hirsch, Wm.
Arthur Conklin**

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