

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. Then 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 packet in the middle attack, where the attacker can intercept and modify the packets between the two victims. It could be, however, impossible for students to protect perfectly nothing and everything with, as there are essential skills in network security, and they are not 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
- Filter in the middle attack
- Script programming

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

- Section 1 of the SEC21 Lab on <https://www.wookwang.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 on the SEC21 VM you can use any language. However, most of the SEC21 lab can be conducted on the cloud, and you can follow our instruction because a SEC21 VM on the cloud.

2. Environment Setup using Container

In this lab, we need three machines. We use containers to set up the lab environment, which is depicted in Figure 1. In this setup, we have an attacker machine (Host M1, which is used to launch attacks against the other two machines, Host A and Host M2. These three machines must be on the same LAN because the ARP cache poisoning attack is limited on LAN. We can implement to set up the lab on Internet.

Arp Cache Lab Manual

**John Impagliazzo, Association for
Computing Machinery. Special Interest
Group on Computer Science Education**

Arp Cache Lab Manual:

Network+ Lab Manual for Guide to Networks Todd Meadors, 2000 The Network Guide to Networks Lab Manual presents extensive hands on exercises and case studies to practice concepts learned on the way to obtaining Network certification Designed as a complement to Network Guide to Networks this manual also stands alone as an excellent resource for practical hands on independent study **MCSE Exam 70-218 Projects Lab Manual** Inter Azimuth, 2004-07-06

Principles of Computer Security Lab Manual, Fourth Edition Vincent J. Nestler, Keith Harrison, Matthew P. Hirsch, Wm. Arthur Conklin, 2014-10-31 Practice the Computer Security Skills You Need to Succeed 40 lab exercises challenge you to solve problems based on realistic case studies Step by step scenarios require you to think critically Lab analysis tests measure your understanding of lab results Key term quizzes help build your vocabulary Labs can be performed on a Windows Linux or Mac platform with the use of virtual machines In this Lab Manual you ll practice Configuring workstation network connectivity Analyzing network communication Establishing secure network application communication using TCP IP protocols Penetration testing with Nmap metasploit password cracking Cobalt Strike and other tools Defending against network application attacks including SQL injection web browser exploits and email attacks Combatting Trojans man in the middle attacks and steganography Hardening a host computer using antivirus applications and configuring firewalls Securing network communications with encryption secure shell SSH secure copy SCP certificates SSL and IPsec Preparing for and detecting attacks Backing up and restoring data Handling digital forensics and incident response Instructor resources available This lab manual supplements the textbook Principles of Computer Security Fourth Edition which is available separately Virtual machine files Solutions to the labs are not included in the book and are only available to adopting instructors Principles of Computer Security CompTIA Security+ and Beyond Lab Manual, Second Edition Vincent Nestler, Gregory White, Wm. Arthur Conklin, Matthew Hirsch, Corey Schou, 2011-01-22 Written by leading IT security educators this fully updated Lab Manual supplements Principles of Computer Security CompTIA Security and Beyond Second Edition Principles of Computer Security Lab Manual Second Edition contains more than 30 labs that challenge you to solve real world problems with key concepts Clear measurable lab objectives map to CompTIA Security certification exam objectives ensuring clear correspondence to Principles of Computer Security CompTIA Security and Beyond Second Edition The Lab Manual also includes materials lists and lab set up instructions Step by step not click by click lab scenarios require you to think critically and Hint and Warning icons aid you through potentially tricky situations Post lab observation questions measure your understanding of lab results and the Key Term Quiz helps to build vocabulary Principles of Computer Security Lab Manual Second Edition features New more dynamic design and a larger trim size The real world hands on practice you need to pass the certification exam and succeed on the job Lab solutions on the textbook OLC Online Learning Center All inclusive coverage Introduction and Security Trends General Security Concepts Operational Organizational Security The Role

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IP Routing Network naming Advanced networking devices IPv6 Remote connectivity Wireless networking Virtualization and cloud computing Mobile networking Building a real world network Managing risk Protecting your network Network monitoring and troubleshooting *CCNA Cybersecurity Operations Companion Guide* Allan Johnson, Cisco Networking Academy, 2018-06-17 CCNA Cybersecurity Operations Companion Guide is the official supplemental textbook for the Cisco Networking Academy CCNA Cybersecurity Operations course The course emphasizes real world practical application while providing opportunities for you to gain the skills needed to successfully handle the tasks duties and responsibilities of an associate level security analyst working in a security operations center SOC The Companion Guide is designed as a portable desk reference to use anytime anywhere to reinforce the material from the course and organize your time The book s features help you focus on important concepts to succeed in this course Chapter Objectives Review core concepts by answering the focus questions listed at the beginning of each chapter Key Terms Refer to the lists of networking vocabulary introduced and highlighted in context in each chapter Glossary Consult the comprehensive Glossary with more than 360 terms Summary of Activities and Labs Maximize your study time with this complete list of all associated practice exercises at the end of each chapter Check Your Understanding Evaluate your readiness with the end of chapter questions that match the style of questions you see in the online course quizzes The answer key explains each answer How To Look for this icon to study the steps you need to learn to perform certain tasks Interactive Activities Reinforce your understanding of topics with dozens of exercises from the online course identified throughout the book with this icon Packet Tracer Activities Explore and visualize networking concepts using Packet Tracer There are exercises interspersed throughout the chapters and provided in the accompanying Lab Manual book Videos Watch the videos embedded within the online course Hands on Labs Develop critical thinking and complex problem solving skills by completing the labs and activities included in the course and published in the separate Lab Manual *Principles of Computer Security: CompTIA Security+ and Beyond Lab Manual (Exam SY0-601)* Jonathan S. Weissman, 2021-08-27 Practice the Skills Essential for a Successful Career in Cybersecurity This hands on guide contains more than 90 labs that challenge you to solve real world problems and help you to master key cybersecurity concepts Clear measurable lab results map to exam objectives offering direct correlation to Principles of Computer Security CompTIA Security TM and Beyond Sixth Edition Exam SY0 601 For each lab you will get a complete materials list step by step instructions and scenarios that require you to think critically Each chapter concludes with Lab Analysis questions and a Key Term quiz Beyond helping you prepare for the challenging exam this book teaches and reinforces the hands on real world skills that employers are looking for In this lab manual you ll gain knowledge and hands on experience with Linux systems administration and security Reconnaissance social engineering phishing Encryption hashing OpenPGP DNSSEC TLS SSH Hacking into systems routers and switches Routing and switching Port security ACLs Password cracking Cracking WPA2 deauthentication attacks intercepting wireless traffic Snort IDS Active Directory file

servers GPOs Malware reverse engineering Port scanning Packet sniffing packet crafting packet spoofing SPF DKIM and DMARC Microsoft Azure AWS SQL injection attacks Fileless malware with PowerShell Hacking with Metasploit and Armitage Computer forensics Shodan Google hacking Policies ethics and much more **Information Security** Kan Zhang, Yuliang Zheng, 2004-09-21 The 2004 Information Security Conference was the seventh in a series that started with the Information Security Workshop in 1997 A distinct feature of this series is the wide coverage of topics with the aim of encouraging interaction between researchers in different aspects of information security This trend continued in the program of this year's conference The program committee received 106 submissions from which 36 were selected for presentation Each submission was reviewed by at least three experts in the relevant research area We would like to thank all the authors for taking their time to prepare the submissions and we hope that those whose papers were declined will be able to find an alternative forum for their work We were fortunate to have an energetic team of experts who took on the task of the program committee Their names may be found overleaf and we thank them warmly for their time and efforts This team was helped by an even larger number of external reviewers who reviewed papers in their particular areas of expertise A list of these names is also provided which we hope is complete We would also like to thank the advisory committee for their advice and support

The excellent local arrangements were handled by Dirk Balfanz and Jessica Staddon We made use of the electronic submission and reviewing software supplied by COSIC at the Katholieke Universiteit Leuven Both the software and the ISC 2004 website were run on a server at UNC Charlotte and were perfectly maintained by Seung Hyun Im We also appreciate assistance from Lawrence Teo in editing the proceedings **I-Net+ Certification Lab Guide** Randy Ratliff, 2003 **Networking and Networking+** Graves, 2003-08 *Wireshark for Security Professionals* Jessey Bullock, Jeff T. Parker, 2017-02-28 Master Wireshark to solve real world security problems If you don't already use Wireshark for a wide range of information security tasks you will after this book Mature and powerful Wireshark is commonly used to find root cause of challenging network issues This book extends that power to information security professionals complete with a downloadable virtual lab environment Wireshark for Security Professionals covers both offensive and defensive concepts that can be applied to essentially any InfoSec role Whether into network security malware analysis intrusion detection or penetration testing this book demonstrates Wireshark through relevant and useful examples Master Wireshark through both lab scenarios and exercises Early in the book a virtual lab environment is provided for the purpose of getting hands on experience with Wireshark Wireshark is combined with two popular platforms Kali the security focused Linux distribution and the Metasploit Framework the open source framework for security testing Lab based virtual systems generate network traffic for analysis investigation and demonstration In addition to following along with the labs you will be challenged with end of chapter exercises to expand on covered material Lastly this book explores Wireshark with Lua the light weight programming

language Lua allows you to extend and customize Wireshark's features for your needs as a security professional. Lua source code is available both in the book and online. Lua code and lab source code are available online through GitHub which the book also introduces. The book's final two chapters greatly draw on Lua and TShark the command line interface of Wireshark. By the end of the book you will gain the following:

- Master the basics of Wireshark
- Explore the virtual w4sp lab environment that mimics a real world network
- Gain experience using the Debian based Kali OS among other systems
- Understand the technical details behind network attacks
- Execute exploitation and grasp offensive and defensive activities exploring them through Wireshark
- Employ Lua to extend Wireshark features and create useful scripts

To sum up the book content labs and online material coupled with many referenced sources of PCAP traces together present a dynamic and robust manual for information security professionals seeking to leverage Wireshark.

Information Security, 2004 *Principles of Computer Security, Fourth Edition* Wm. Arthur Conklin, Greg White, Chuck Cothren, Roger L. Davis, Dwayne Williams, 2016-01-01

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