NETWORK LAB MANUAL

Exercise 1:
To learn to use ethereal to capture and analyze packets.

To do: Start ethereal on one or both interfaces that the machine has. Go to the *capture* menu and select the *start* option. Wait for some time and after enough packets have been captured, stop the capture.

Output: Ethereal output will show three frames.
- The first one will consist of one line messages for all packets captured stating the basic protocol type of the packet.
- The second frame will show the packet headers present in each packet – such as Ethernet, IP, UDP etc. Each of these headers can be expanded and the values of the various fields in these headers should be observed.
- The third frame consists of the hex dump of the packet. This can be related to the headers in the second frame

What to look for:
- For each different protocol type seen in the ethereal output, identify what is the demultiplexing field in the ethernet frame
- Identify how ethereal is able to classify the output as belonging to a particular protocol

Answer:
1. Why do you see many *ARP Requests* but not many *ARP replies* in the output?

Exercise 2:
To learn how to configure IP addresses in Linux and understand rules of IP addressing

To do: Disconnect the machines from the general LAN. Using the switches provided, connect the machines into different switches – two or three per switch. Configure any random IP address to each of the machines.

How to: Use *neat* command in RedHat versions of Linux. Or, alternately, use the command *ifconfig*.

Output: The IP address of the machine should be the configured value.

How to verify: Use the command *ifconfig*. This gives the IP addresses assigned to each of the interfaces of the machine. The other method is to *ping* to the address given. *ping* to a wrong address to see what happens.

Check: Reachability of other machines – do this by using the *ping* command.
1. whether you are able to reach the other machines connected to your switch.
2. whether you are able to reach machines connected to other switches.

Network Secuirty Lab Manual

Thomson Delmar Learning

Network Secuirty Lab Manual:

Network Security-Lab Manual Thomson Delmar Learning,2004-02-01   Hands-On Information Security Lab Manual Michael E. Whitman,Dave M. Shackleford,2002-12 Hands On Information Security Lab Manual provides instructors with detailed hands on exercises in information security management and practice This lab text addresses the need for a quality general purpose laboratory exercises manual in information security This text allows the students to see firsthand the challenges of securing and managing information networks The manual has both simple introductory exercises to technical information security specific exercises Technical exercises are designed with great consideration to the fine line between information security professional and hacker The manual also includes several minicase and full case exercises providing students with sample analysis outlines and criteria for evaluation The minicases are vignettes outlining issues like the use of ant virus software in their lab are short term projects by design for individual or group use and provide feedback for in class discussion The full scale cases are suitable for a semester long analysis of a presented organization of varying scope and size by student teams The text also addresses other security and network issues information security professionals encounter **CCNA Security Lab Manual Version 2** Cisco Networking Cisco Networking Academy,2015-11-09 The Cisco R Networking Academy R course on CCNA R Security is a hands on career oriented e learning solution with an emphasis on practical experience to help students develop specialized security skills to expand their CCENT level skill set and advance their career The curriculum helps prepare students for entry level security career opportunities and the Implementing Cisco IOS R Network Security IINS certification exam 210 260 leading to the Cisco CCNA Security certification The CCNA Security Lab Manual provides all 15 labs from the course designed as hands on practice to develop critical thinking and complex problem solving skills needed to prepare for entry level security specialist careers Through procedural skills integration challenges troubleshooting and model building labs this CCNA Security course aims to develop in depth understanding of network security principles as well as the tools and configurations used   **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 **Linux Essentials for Cybersecurity Lab Manual** William Rothwell,2018-10-09 This lab manual accompanies the textbook Linux Essentials for Cybersecurity which teaches people how to use Linux systems and ensures that the Linux systems they work on are as secure as possible To really become a Linux cybersecurity expert you need practice In this book there are three different types of labs to practice your skills Labs in which you are presented with a short problem that requires only a single operation to complete Labs that are more complex but in which we provide you with a guide to perform each step one at a time Scenario labs in which you are asked to solve a problem entirely on your own These labs are designed to pose a greater challenge No matter the type these labs are designed to be performed on live Linux systems to give you hands on practice and develop critical thinking and complex problem solving skills **LM- KAPLAN IT541 COMPUTER and NETWORK SECURITY LAB MANUAL** Jones & Bartlett Learning, LLC,2012-04-13 Hands-On Information Security Lab Manual Michael E. Whitman,Herbert J. Mattord,Andrew Green,2014-02-24 HANDS ON INFORMATION SECURITY LAB MANUAL Fourth Edition helps you hone essential information security skills by applying your knowledge to detailed realistic exercises using Microsoft Windows 2000 Windows XP Windows 7 and Linux This wide ranging non certification based lab manual includes coverage of scanning OS vulnerability analysis and resolution firewalls security maintenance forensics and more The Fourth Edition includes new introductory labs focused on virtualization techniques and images giving you valuable experience with some of the most important trends and practices in information security and networking today All software necessary to complete the labs are available online as a free download An ideal resource for introductory technical and managerial courses or self study this versatile manual is a perfect supplement to the PRINCIPLES OF INFORMATION SECURITY SECURITY FUNDAMENTALS and MANAGEMENT OF INFORMATION SECURITY books Important Notice Media content referenced within the product description or the product text may not be available in the ebook version *The Network Security Test Lab* Michael Gregg,2015-08-10 The ultimate hands on guide to IT security and proactive defense The Network Security Test Lab is a hands on step by step guide to ultimate IT security implementation Covering the full complement of malware viruses and other attack technologies this essential guide walks you through the security assessment and penetration testing process and provides the set up guidance you need to build your own security testing lab You ll look inside the actual attacks to decode their methods and learn how to run attacks in an isolated sandbox to better understand how attackers target systems and how to build the defenses that stop them You ll be introduced to tools like Wireshark Networkminer Nmap Metasploit and more as you discover techniques for defending against network attacks social networking bugs malware and the most prevalent malicious traffic You also get

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