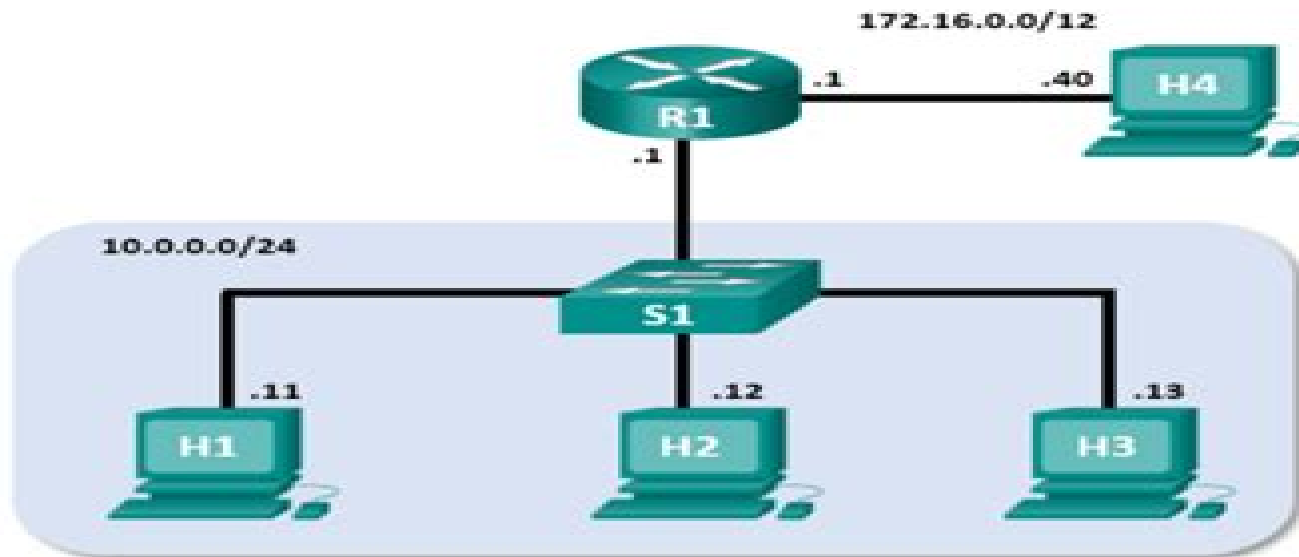


Lab – Introduction to Wireshark

Mininet Topology



Objectives

Part 1: Install and Verify the Mininet Topology

Part 2: Capture and Analyze ICMP Data in Wireshark

Background / Scenario

The CyberOps VM includes a Python script that, when you run it, will set up and configure the devices shown in the figure above. You will then have access to four hosts, a switch, and a router inside your one VM. This will allow you to simulate a variety of network protocols and services without having to configure a physical network of devices. For example, in this lab you will use the **ping** command between two hosts in the Mininet Topology and capture those pings with Wireshark.

Wireshark is a software protocol analyzer, or "packet sniffer" application, used for network troubleshooting, analysis, software and protocol development, and education. As data streams travel over the network, the sniffer "captures" each protocol data unit (PDU) and can decode and analyze its content according to the appropriate RFC or other specifications.

Wireshark is a useful tool for anyone working with networks for data analysis and troubleshooting. You will use Wireshark to capture ICMP data packets.

Wireshark Lab Guide

Mike Chapple, David Seidl



Wireshark Lab Guide:

Introduction to Networks v6 Companion Guide Cisco Networking Academy, 2016-12-10 This is the eBook of the printed book and may not include any media website access codes or print supplements that may come packaged with the bound book Introduction to Networks Companion Guide v6 is the official supplemental textbook for the Introduction to Networks course in the Cisco Networking Academy CCNA Routing and Switching curriculum The course introduces the architecture structure functions components and models of the Internet and computer networks The principles of IP addressing and fundamentals of Ethernet concepts media and operations are introduced to provide a foundation for the curriculum By the end of the course you will be able to build simple LANs perform basic configurations for routers and switches and implement IP addressing schemes 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 250 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

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 *Network Basics Companion Guide* Cisco Networking Academy Program,2014 This is the only Cisco authorized companion guide to the official Cisco Networking Academy course in the new CCNA Routing and Switching curriculum An invaluable resource for hundreds of thousands of Cisco Networking Academy students worldwide this portable desk reference is ideal for anytime anywhere take home study and reference Fully aligned to the online course chapters it offers additional book based pedagogy to reinforce key concepts enhance student comprehension and promote retention Using it students can focus scarce study time organize review for quizzes and exams and get the day to day reference answers they re looking for The Companion Guide also offers instructors additional opportunities to assign take home reading or vocabulary homework helping students prepare more for in class lab work and discussions

Introduction to Networks Companion Guide v5.1 Cisco Networking Academy,2016-06-01 Introduction to Networks Companion Guide v5 1 is the official supplemental textbook for the Introduction to Networks course in the Cisco Networking Academy CCNA Routing and Switching curriculum The course introduces the architecture structure functions components and models of the Internet and computer networks The principles of IP addressing and fundamentals of Ethernet concepts media and operations are introduced to provide a foundation for the curriculum By the end of the course you will be able to build simple LANs perform basic configurations for routers and switches and implement IP addressing schemes 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 250 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 ofchapter questions that match the style of questions you see in the online course quizzes The answer key explains each answer

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Introduction to Networks Companion Guide (CCNAv7) Cisco Networking Academy,2020-06-01

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MySQL Lab Manual Manish Soni, 2024-11-13 This book *MySQL Lab Manual* is your companion on a journey through the intricate and dynamic world of MySQL an open source relational database management system that has captivated the hearts of developers database administrators and businesses worldwide In a data driven era where information is the lifeblood of organizations mastering a robust and versatile database system like MySQL is of paramount importance This book is tailored to meet the diverse needs of readers whether you re taking your first steps into the realm of databases or you re an experienced database professional looking to deepen your MySQL expertise As you navigate through these pages you ll find the collective wisdom of experienced database professionals developers and MySQL enthusiasts who have contributed to this comprehensive resource We d like to express our gratitude to the MySQL community whose passion and dedication have played an instrumental role in shaping this book We d also like to thank our families friends and colleagues for their unwavering support throughout this endeavour We believe that this book will be a valuable resource on your journey to becoming a MySQL master Whether you re a student a professional or an enthusiast we hope this book equips you with the knowledge and skills you need to harness the full potential of MySQL

Packet Guide to Core Network Protocols Bruce Hartpence, 2011-06-10 Take an in depth tour of core Internet protocols and learn how they work together to move data packets from one network to another With this concise book you ll delve into the aspects of each protocol including operation basics and security risks and learn the function of network hardware such as switches and routers Ideal for beginning network engineers each chapter in this book includes a set of review questions as well as practical hands on lab exercises Understand basic network architecture and how protocols and functions fit together Learn the structure and operation of the

Ethernet protocol Examine TCP IP including the protocol fields operations and addressing used for networks Explore the address resolution process in a typical IPv4 network Become familiar with switches access points routers and other network components that process packets Discover how the Internet Control Message Protocol ICMP provides error messages during network operations Learn about the network mask subnetting and how it helps determine the network

Networking Essentials Companion Guide v3 Cisco Networking Academy, 2024-02-09 *Networking Essentials Companion Guide v3* Cisco Certified Support Technician CCST Networking 100 150 is the official supplemental textbook for the Networking Essentials course in the Cisco Networking Academy Networking is at the heart of the digital transformation The network is essential to many business functions today including business critical data and operations cybersecurity and so much more A wide variety of career paths rely on the network so it s important to understand what the network can do how it operates and how to protect it This is a great course for developers data scientists cybersecurity specialists and other professionals looking to broaden their networking domain knowledge It s also an excellent launching point for students pursuing a wide range of career pathways from cybersecurity to software development to business and more 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 250 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

Malware Forensics Field Guide for Windows Systems Cameron H. Malin, Eoghan Casey, James M. Aquilina, 2012-05-11 *Malware Forensics Field Guide for Windows Systems* is a handy reference that shows students the essential tools needed to do computer forensics analysis at the crime scene It is part of Syngress Digital Forensics Field Guides a series of companions for any digital and computer forensic student investigator or analyst Each Guide is a toolkit with checklists for specific tasks case studies of difficult situations and expert analyst tips that will aid in recovering data from digital media that will be used in criminal prosecution This book collects data from all methods of electronic data storage and transfer devices including computers laptops PDAs and the images spreadsheets and other types of files stored on these devices It is specific for Windows based systems the largest running OS in the world The authors are world renowned leaders in investigating and analyzing malicious code Chapters cover malware incident response volatile data collection and examination on a live Windows system analysis of physical and process memory dumps for malware artifacts post mortem forensics discovering and extracting malware and associated artifacts from Windows systems legal considerations file identification and profiling initial analysis of

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Introduction to Networks Cisco Networking Academy Program, 2014 *Introduction to Networks Companion Guide* is the official supplemental textbook for the *Introduction to Networks* course in the Cisco Networking Academy CCNA Routing and Switching curriculum The course introduces the architecture structure functions components and models of the Internet and computer networks The principles of IP addressing and fundamentals of Ethernet concepts media and operations are introduced to provide a foundation for the curriculum By the end of the course you will be able to build simple LANs perform basic configurations for routers and switches and implement IP addressing schemes 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

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CompTIA CySA+ Study Guide with Online Labs Mike Chapple, 2020-11-10 Virtual hands on learning labs allow you to apply your technical skills using live hardware and software hosted in the cloud So Sybex has bundled CompTIA CySA labs from Practice Labs the IT Competency Hub with our popular CompTIA CySA Study Guide Second Edition Working in these labs gives you the same experience you need to prepare for the CompTIA CySA Exam CS0 002 that you would face in a real life setting Used in addition to the book the labs are a proven way to prepare for the certification and for work in the cybersecurity field The CompTIA CySA Study Guide Exam CS0 002 Second Edition provides clear and concise information on crucial security topics and verified 100% coverage of the revised CompTIA Cybersecurity Analyst CySA exam objectives You

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Mike Meyers' CompTIA Network+ Guide to Managing and Troubleshooting Networks Lab Manual, Fourth Edition (Exam N10-006) Mike Meyers,Jonathan S. Weissman,2015-06-05 Practice the Skills Essential for a Successful IT Career Mike Meyers CompTIA Network Guide to Managing and Troubleshooting Networks Lab Manual Fourth Edition features 80 lab exercises challenge you to solve problems based on realistic case studies Lab analysis tests measure your understanding of lab results Step by step scenarios require you to think critically Key term quizzes help build your vocabulary Get complete coverage of key skills and concepts including Network architectures Cabling and topology Ethernet basics Network installation TCP IP applications and network protocols Routing Network naming Advanced networking devices IPv6 Remote connectivity Wireless networking Virtualization and cloud computing Network operations Managing risk Network security Network monitoring and troubleshooting Instructor resources available This lab manual supplements the textbook Mike Meyers CompTIA Network Guide to Managing and Troubleshooting Networks Fourth Edition Exam N10 006 which is available separately Solutions to the labs are not printed in the book and are only available to adopting instructors

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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

CompTIA CySA+ Study Guide Mike Chapple, David Seidl, 2017-04-10 NOTE The name of the exam has changed from CSA to CySA However the CS0 001 exam objectives are exactly the same After the book was printed with CSA in the title CompTIA changed the name to CySA We have corrected the title to CySA in subsequent book printings but earlier printings that were sold may still show CSA in the title Please rest assured that the book content is 100% the same Prepare yourself for the newest CompTIA certification The CompTIA Cybersecurity Analyst CySA Study Guide provides 100% coverage of all exam objectives for the new CySA certification The CySA certification validates a candidate's skills to configure and use threat detection tools perform data analysis identify vulnerabilities with a goal of securing and protecting organizations systems Focus your review for the CySA with Sybex and benefit from real world examples drawn from experts hands on labs insight on how to create your own cybersecurity toolkit and end of chapter review questions help you gauge your understanding each step of the way You also gain access to the Sybex interactive learning environment that includes electronic flashcards a searchable glossary and hundreds of bonus practice questions This study guide provides the guidance and knowledge you need to demonstrate your skill set in cybersecurity Key exam topics include Threat management Vulnerability management Cyber incident response Security architecture and toolsets

Mike Meyers' CompTIA Network+ Guide to Managing and Troubleshooting Networks Lab Manual, Sixth Edition (Exam N10-008) Jonathan S. Weissman, 2022-01-28 Practice the Skills Essential for a Successful IT Career 80 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 Mike Meyers CompTIA Network TM Guide to Managing and Troubleshooting Networks Lab Manual Sixth Edition covers Network models Cabling and topology Ethernet basics Ethernet standards Installing a physical network TCP IP basics Routing TCP IP applications Network naming Securing TCP IP Switch features IPv6 WAN connectivity Wireless networking Virtualization and cloud computing Data centers Integrating network devices Network operations Protecting your network Network monitoring Network troubleshooting

CASP+ CompTIA Advanced Security Practitioner Study Guide Jeff T. Parker, Michael Gregg, 2019-01-23 Comprehensive coverage of the new CASP exam with hands on practice and interactive study tools The CASP CompTIA Advanced Security Practitioner Study Guide Exam CAS 003 Third Edition offers invaluable preparation for exam CAS 003 Covering 100 percent of the exam objectives this book provides expert walk through of essential security concepts and processes to help you tackle this challenging exam with full confidence Practical examples and real world insights illustrate critical topics and show what essential practices look like on the ground while detailed explanations of technical and business concepts give you the background you need to apply identify and implement appropriate security solutions End of chapter reviews help solidify your understanding of each

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Wireshark Lab Guide Book Review: Unveiling the Magic of Language

In an electronic digital era where connections and knowledge reign supreme, the enchanting power of language has become more apparent than ever. Its ability to stir emotions, provoke thought, and instigate transformation is really remarkable. This extraordinary book, aptly titled "**Wireshark Lab Guide**," written by a very acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound impact on our existence. Throughout this critique, we shall delve to the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

http://www.frostbox.com/public/browse/HomePages/Trex_250_Manual.pdf

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Wireshark Lab Guide Introduction

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