

FOURTH EDITION

Principles of Computer Security

LAB MANUAL



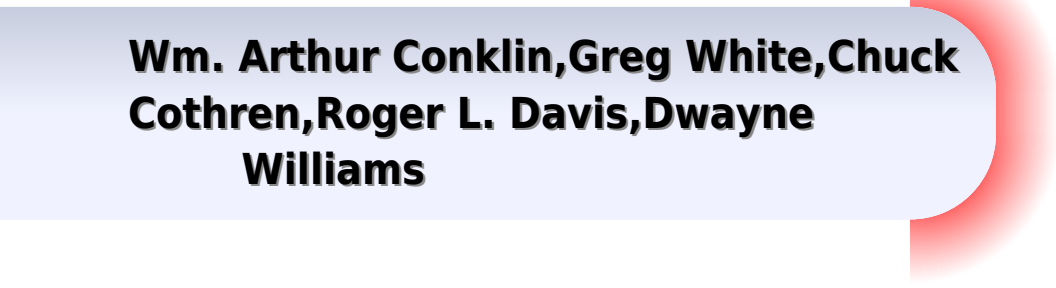
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Major in CompTIA Security+™ exam SY0-111 objectives

Computer Security Lab Manual

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Williams**



Computer Security Lab Manual:

Hands-On Information Security Lab Manual Michael E. Whitman, Herbert J. Mattord, 2012-12-20 The Hands On Information Security Lab Manual allows users to apply the basics of their introductory security knowledge in a hands on environment with detailed exercises using Windows 2000 XP and Linux This non certification based lab manual includes coverage of scanning OS vulnerability analysis and resolution firewalls security maintenance forensics and more A full version of the software needed to complete these projects is included on a CD with every text so instructors can effortlessly set up and run labs to correspond with their classes The Hands On Information Security Lab Manual is a suitable resource for introductory technical and managerial courses and is a perfect supplement to the Principles of Information Security and Management of Information Security texts Important Notice Media content referenced within the product description or the product text may not be available in the ebook version

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 Computer Security Lab Manual Vincent Nestler, Wm. Arthur Conklin, Gregory White, Matthew Hirsch, 2005-06-22

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 of People in Security Cryptography Public Key Infrastructure Standards and Protocols Physical Security Network Fundamentals Infrastructure Security Authentication and Remote Access Wireless Security Intrusion Detection Systems and Network Security Baselines Types of Attacks and Malicious Software E mail and Instant Messaging Web Components Secure Software Development Disaster Recovery Business Continuity and Organizational Policies Risk Management Change Management Privilege Management Computer Forensics Legal Issues and Ethics Privacy

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

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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

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

Principles of Computer Security, Fourth Edition Wm. Arthur Conklin, Greg White, Chuck Cothren, Roger L. Davis, Dwayne Williams, 2016-01-01 Written by leading information security educators this fully revised full color computer security textbook covers CompTIA s fastest growing credential CompTIA Security Principles of Computer Security Fourth Edition is a student tested introductory computer security textbook that provides comprehensive coverage of computer and network security fundamentals in an engaging and dynamic full color design In addition to teaching key computer security concepts the textbook also fully prepares you for CompTIA Security exam SY0 401 with 100% coverage of all exam objectives Each chapter begins with a list of topics to be covered and features sidebar exam and tech tips a chapter summary and an end of chapter assessment section that includes key term multiple choice and essay quizzes as well as lab projects Electronic content includes CompTIA

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IT541 COMPUTER and NETWORK SECURITY LAB MANUAL Jones & Bartlett Learning, LLC,2012-04-13

Computer Security Lab Manual Book Review: Unveiling the Power of Words

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