

CRYPTOGRAPHY AND NETWORK SECURITY LAB

B.Tech. III Year II Sem.

Course Code: CS604PC

L T P C

0 0 3 2

1. Write a C program that contains a string (char pointer) with a value 'Hello world'. The program should XOR each character in this string with 0 and displays the result.
2. Write a C program that contains a string (char pointer) with a value 'Hello world'. The program should AND or and XOR each character in this string with 127 and display the result.
3. Write a Java program to perform encryption and decryption using the following algorithms
 - a. Ceaser cipher
 - b. Substitution cipher
 - c. Hill Cipher
4. Write a C/JAVA program to implement the DES algorithm logic.
5. Write a C/JAVA program to implement the Blowfish algorithm logic.
6. Write a C/JAVA program to implement the Rijndael algorithm logic.
7. Write the RC4 logic in Java Using Java cryptography; encrypt the text "Hello world" using Blowfish. Create your own key using Java key tool.
8. Write a Java program to implement RSA algorithm.
9. Implement the Diffie-Hellman Key Exchange mechanism using HTML and JavaScript.
10. Calculate the message digest of a text using the SHA-1 algorithm in JAVA.
11. Calculate the message digest of a text using the MD5 algorithm in JAVA.

Cryptography And Computer Network Security Lab Manual

Mike Meyers, Jonathan S. Weissman



Cryptography And Computer Network Security Lab Manual:

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

Information Technology Control and Audit, Fourth Edition Sandra Senft, Frederick Gallegos, Aleksandra Davis, 2012-07-18 The new edition of a bestseller Information Technology Control and Audit Fourth Edition provides a comprehensive and up to date overview of IT governance controls auditing applications systems development and operations Aligned to and supporting the Control Objectives for Information and Related Technology COBIT it examines emerging trends and defines recent advances in technology that impact IT controls and audits including cloud computing web based applications and server virtualization Filled with exercises review questions section summaries and references for further reading this updated and revised edition promotes the mastery of the concepts and practical implementation of controls needed to manage information technology resources effectively well into the future Illustrating the complete IT audit process the text Considers the legal environment and its impact on the IT field including IT crime issues and protection against fraud Explains how to determine risk management objectives Covers IT project management and describes the auditor s role in the process Examines advanced topics such as virtual infrastructure security enterprise resource planning web application risks and controls and cloud and mobile computing security Includes review questions multiple choice questions with answers exercises and resources for further reading in each chapter This resource rich text includes appendices with IT audit cases professional standards sample audit programs bibliography of selected publications for IT auditors and a glossary It also considers IT auditor career development and planning and explains how to establish a career development plan Mapping the requirements for information systems auditor certification this text is an ideal resource for those preparing for the Certified

Information Systems Auditor CISA and Certified in the Governance of Enterprise IT CGEIT exams Instructor s guide and PowerPoint slides available upon qualified course adoption *Cybersecurity* Henrique M. D. Santos,2022-04-27

Cybersecurity A Practical Engineering Approach introduces the implementation of a secure cyber architecture beginning with the identification of security risks It then builds solutions to mitigate risks by considering the technological justification of the solutions as well as their efficiency The process follows an engineering process model Each module builds on a subset of the risks discussing the knowledge necessary to approach a solution followed by the security control architecture design and the implementation The modular approach allows students to focus on more manageable problems making the learning process simpler and more attractive **Encyclopedia of Cryptography and Security** Henk C.A. van Tilborg,Sushil

Jajodia,2011-09-06 This comprehensive encyclopedia provides easy access to information on all aspects of cryptography and security The work is intended for students researchers and practitioners who need a quick and authoritative reference to areas like data protection network security operating systems security and more **Encyclopedia of Cryptography,**

Security and Privacy Sushil Jajodia,Pierangela Samarati,Moti Yung,2025-01-10 A rich stream of papers and many good books have been written on cryptography security and privacy but most of them assume a scholarly reader who has the time to start at the beginning and work his way through the entire text The goal of *Encyclopedia of Cryptography Security and Privacy* Third Edition is to make important notions of cryptography security and privacy accessible to readers who have an interest in a particular concept related to these areas but who lack the time to study one of the many books in these areas The third edition is intended as a replacement of *Encyclopedia of Cryptography and Security* Second Edition that was edited by Henk van Tilborg and Sushil Jajodia and published by Springer in 2011 The goal of the third edition is to enhance on the earlier edition in several important and interesting ways First entries in the second edition have been updated when needed to keep pace with the advancement of state of the art Second as noticeable already from the title of the encyclopedia coverage has been expanded with special emphasis to the area of privacy Third considering the fast pace at which information and communication technology is evolving and has evolved drastically since the last edition entries have been expanded to provide comprehensive view and include coverage of several newer topics 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

Security+ Guide to Network Security Fundamentals Mark Ciampa, Mark Clampa, 2005 Mark Ciampa addresses real world business challenges and hands on exercises to ease students into CompTIA's Security latest exam objectives Designed for an introductory network security course this text has been completely rewritten to include new topics and additional end of chapter material The accompanying lab manual will provide extensive practice for working with cryptography common attackers and business communications in a real world situation Free CoursePrep and CertBlaster Security exam preparation software will aid in your students success in and out of the classroom This edition now includes On the Job features to open each chapter and focus on real world business challenges Icons are inserted within the running text to highlight topics later applied in the hands on projects

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

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

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Tutorial--the Security of Data in Networks ,1981

Cybersecurity of Industrial Systems Jean-Marie Flaus,2019-07-09 How to manage the cybersecurity of industrial systems is a crucial question To implement relevant solutions the industrial manager must have a clear understanding of IT systems of communication networks and of control command systems They must also have some knowledge of the methods used by attackers of the standards and regulations involved and of the available security solutions Cybersecurity of Industrial Systems presents these different subjects in order to give an in depth overview and to help the reader manage the cybersecurity of their installation The book addresses these issues for both classic SCADA architecture systems and Industrial Internet of Things IIoT systems

Certification Press MCSE Windows 2000 Network Administration Lab Manual Nick Lamanna,2001-12 A comprehensive guide for both classroom learning and self paced learning this lab manual provides step by step lab scenarios that will assist anyone studying for MCSE exam 70 216

Advances in Computer System Security Rein Turn,1981

[CCNA Cybersecurity Operations Lab Manual](#) Cisco Networking Academy,2018 The only authorized Lab Manual for the Cisco Networking Academy CCNA Cybersecurity Operations course Curriculum Objectives CCNA Cybersecurity Operations 1 0 covers knowledge and skills needed to successfully handle the tasks duties and responsibilities of an associate level Security Analyst working in a Security Operations Center SOC Upon completion of the CCNA Cybersecurity Operations 1 0 course students will be able to perform the following tasks Install virtual machines to create a safe environment for implementing and analyzing cybersecurity threat events Explain the role of the Cybersecurity Operations Analyst in the enterprise Explain the Windows Operating System features and characteristics needed to support cybersecurity analyses Explain the features and characteristics of the Linux Operating System Analyze the operation of network protocols and services Explain the operation of the network infrastructure Classify the various types of network attacks Use network monitoring tools to identify attacks against network protocols and services Use various methods to prevent malicious access to computer networks hosts and data Explain the impacts of cryptography on network security monitoring Explain how to investigate endpoint vulnerabilities and attacks Analyze network intrusion data to verify potential exploits Apply incident response models to manage network security incidents

3rd ACM Conference on Computer and Communications Security ,1996

Computer Networks Marshall D. Abrams,Ira W. Cotton,1984

Government Reports Annual Index ,1991

ACM Conference on Computer and Communications Security ,1996

[Science Abstracts](#) ,1995

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Table of Contents Cryptography And Computer Network Security Lab Manual

1. Understanding the eBook Cryptography And Computer Network Security Lab Manual
 - The Rise of Digital Reading Cryptography And Computer Network Security Lab Manual
 - Advantages of eBooks Over Traditional Books
2. Identifying Cryptography And Computer Network Security Lab Manual
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Cryptography And Computer Network Security Lab Manual
 - User-Friendly Interface

4. Exploring eBook Recommendations from Cryptography And Computer Network Security Lab Manual
 - Personalized Recommendations
 - Cryptography And Computer Network Security Lab Manual User Reviews and Ratings
 - Cryptography And Computer Network Security Lab Manual and Bestseller Lists
5. Accessing Cryptography And Computer Network Security Lab Manual Free and Paid eBooks
 - Cryptography And Computer Network Security Lab Manual Public Domain eBooks
 - Cryptography And Computer Network Security Lab Manual eBook Subscription Services
 - Cryptography And Computer Network Security Lab Manual Budget-Friendly Options
6. Navigating Cryptography And Computer Network Security Lab Manual eBook Formats
 - ePub, PDF, MOBI, and More
 - Cryptography And Computer Network Security Lab Manual Compatibility with Devices
 - Cryptography And Computer Network Security Lab Manual Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Cryptography And Computer Network Security Lab Manual
 - Highlighting and Note-Taking Cryptography And Computer Network Security Lab Manual
 - Interactive Elements Cryptography And Computer Network Security Lab Manual
8. Staying Engaged with Cryptography And Computer Network Security Lab Manual
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Cryptography And Computer Network Security Lab Manual
9. Balancing eBooks and Physical Books Cryptography And Computer Network Security Lab Manual
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Cryptography And Computer Network Security Lab Manual
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Cryptography And Computer Network Security Lab Manual
 - Setting Reading Goals Cryptography And Computer Network Security Lab Manual
 - Carving Out Dedicated Reading Time

12. Sourcing Reliable Information of Cryptography And Computer Network Security Lab Manual
 - Fact-Checking eBook Content of Cryptography And Computer Network Security Lab Manual
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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