Solutions For Computer Security Fundamentals 2th Edition By Chuck Easttom

This best-selling guide provides a complete, practical, up-to-date introduction to network and computer security. SECURITY+ GUIDE TO NETWORK SECURITY FUNDAMENTALS, Fifth Edition, maps to the new CompTIA Security+ SY0-401 Certification Exam, providing thorough coverage of all domain objectives to help readers prepare for professional certification and career success. The text covers the essentials of network security, including compliance and operational security; threats and vulnerabilities; application, data, and host security; access control and identity management; and cryptography. The extensively updated Fifth Edition features a new structure based on major domains, a new chapter dedicated to mobile device security, expanded coverage of attacks and defenses, and new and updated information reflecting recent developments and emerging trends in information security, such as virtualization. New hands-on and case activities help readers review and apply what they have learned, and end-of-chapter exercises direct readers to the Information Security Community Site for additional activities and a wealth of learning resources, including blogs, videos , and current news and information relevant to the information security field. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Students who are beginning studies in technology need a strong foundation in the basics before moving on to more advanced technology courses and certification programs. The Microsoft Technology Associate (MTA) is a new and innovative certification track designed to provide a pathway for future success in technology courses and careers. The MTA program curriculum helps instructors teach and validate fundamental technology concepts and provides students with a foundation for their careers as well as the confidence they need to succeed in advanced studies. Through the use of MOAC MTA titles you can help ensure your students future success in and out of the classroom. Vital fundamentals of security are included such as understanding security layers, authentication, authorization, and accounting. They will also become familair with security policies, network security and protecting the Server and Client.

Cybersecurity Fundamentals: A Real-World Perspective explains detailed concepts within computer networks and computer security in an easy-to-understand way, making it the perfect introduction to the topic. This book covers fundamental issues using practical examples and real-world applications to give readers a rounded understanding of the subject and how it is applied. The first three chapters provide a deeper perspective on computer networks, cybersecurity, and different types of cyberattacks that hackers choose to unleash on cyber environments. It then goes on to cover the types of major computer malware and cybersecurity attacks that shook the cyber world in the recent years, detailing the attacks and analyzing their impact on the global economy. The details of the malware codes that help the hacker initiate the hacking attacks on networks are fully described. It then covers high-tech cybersecurity programs, devices, and mechanisms that are extensively adopted in modern security systems. Examples of those systems include intrusion detection systems (IDS), intrusion prevention systems (IPS), and security firewalls. It demonstrates how modern technologies can be used to create and manage passwords for secure data. This book also covers aspects of wireless networks and their security mechanisms. The details of the most commonly used Wi-Fi routers are provided with step-by-step procedures to configure and secure them more efficiently. Test questions are included throughout the chapters to ensure comprehension of the material. Along with this book’s step-by-step approach, this will allow undergraduate students of cybersecurity, network security, and related disciplines to gain a quick grasp of the fundamental topics in the area. No prior knowledge is needed to get the full benefit of this book.

PART OF THE JONES & BARTLETT LEARNING INFORMATION SYSTEMS SECURITY & ASSURANCE SERIES Revised and updated with the latest information from this fast-paced field, Fundamentals of Information System Security, Second Edition provides a comprehensive overview of the essential concepts readers must know as they pursue careers in information systems security. The text opens with a discussion of the new risks, threats, and vulnerabilities associated with the transformation to a digital world, including a look at how business, government, and individuals operate today. Part 2 is adapted from the Official (ISC)2 SSCP Certified Body of Knowledge and presents a high-level overview of each of the seven domains within the System Security Certified Practitioner certification. The book closes with a resource for readers who desire additional material on information security standards, education, professional certifications, and compliance laws. With its practical, conversational writing style and step-by-step examples, this text is a must-have resource for those entering the world of information systems security. New to the Second Edition: - New material on cloud computing, risk analysis, IP mobility, OMNIBus, and Agile Software Development. - Includes the most recent updates in Information Systems Security laws, certificates, standards, amendments, and the proposed Federal Information Security Amendments Act of 2013 and HITECH Act. - Provides new cases and examples pulled from real-world scenarios. - Updated data, tables, and sidebars provide the most current information in the field.

Written for those IT professionals who have some networking background but are new to the security field, this handbook is divided into three parts: first the basics, presenting terms and concepts; second, the two components of security--cryptography and security policies--and finally the various security components, such as router security, firewalls, remote access security, wireless security and VPNs. Original. (Intermediate)

You can get there Whether you're already working and looking to expand your skills in the computer networking and security field or setting out on a new career path, Network Security Fundamentals will help you get there. Easy-to-read, practical, and up-to-date, this text not only helps you learn network security techniques at your own pace; it helps you master the core competencies and skills you need to succeed. With this book, you will be able to: * Understand basic terminology and concepts related to security * Utilize cryptography, authentication, authorization and access control to increase your Windows, Unix or Linux network's security * Recognize and protect your network against viruses, worms, spyware, and other types of malware * Set up recovery and fault tolerance procedures to plan for the worst and to help recover if disaster strikes * Detect intrusions and use forensic analysis to investigate the nature of the attacks Network Security Fundamentals is ideal for both traditional and online courses. The accompanying Network Security Fundamentals Project Manual ISBN: 978-0-470-12798-8 is also available to help reinforce your skills. Wiley Pathways helps you achieve your goals The texts and project manuals in this series offer a coordinated curriculum for learning information technology. Learn more at www.wiley.com/go/pathways.

The first book to introduce computer architecture for security and provide the tools to implement secure computer systems This book provides the fundamentals of computer architecture for

security. It covers a wide range of computer hardware, system software and data concepts from a security perspective. It is essential for computer science and security professionals to understand both hardware and software security solutions to survive in the workplace. Examination of memory, CPU architecture and system implementation Discussion of computer buses and a dual-port bus interface Examples cover a board spectrum of hardware and software systems Design and implementation of a patent-pending secure computer system Includes the latest patent-pending technologies in architecture security Placement of computers in a security fulfilled network environment Co-authored by the inventor of the modern Computed Tomography (CT) scanner Provides website for lecture notes, security tools and latest updates

Achieve the performance, scalability, and ROI your business needs What can you do at the start of a virtualization deployment to make things run more smoothly? If you plan, deploy, maintain, and optimize vSphere solutions in your company, this unique book provides keen insight and solutions. From hardware selection, network layout, and security considerations to storage and hypervisors, this book explains the design decisions you'll face and how to make the right choices. Written by two virtualization experts and packed with real-world strategies and examples, VMware vSphere Design, Second Edition will help you design smart design decisions. Shows IT administrators how plan, deploy, maintain, and optimize vSphere virtualization solutions Explains the design decisions typically encountered at every step in the process and how to make the right choices Covers server hardware selection, network topology, security, storage, virtual machine design, and more Topics include ESXi hypervisors deployment, vSwitches versus dvSwitches, and FC, FCoE, iSCSI, or NFS storage Find out the "why" behind virtualization design decisions and make better choices, with VMware vSphere Design, Second Edition, which has been fully updated for vSphere 5.x.

The world of IT is always evolving, but in every area there arestable, core concepts that anyone just setting out needed to knowlast year, needs to know this year, and will still need to knownext year. The purpose of the Foundations series is to identifythese concepts and present them in a way that gives you thestrongest possible starting point, no matter what your endeavor. Network Security Foundations provides essential knowledgeabout the principles and techniques used to protect computers andnetworks from hackers, viruses, and other threats. What you learnhere will benefit you in the short term, as you acquire andpractice your skills, and in the long term, as you use them. Topicscovered include: Why and how hackers do what they do How encryption and authentication work How firewalls work Understanding Virtual Private Networks (VPNs) Risks posed by remote access Setting up protection against viruses, worms, and spyware Securing Windows computers Securing UNIX and Linux computers Securing Web and email servers Detecting attempts by hackers

Computer Security: Principles and Practice, 2e, is ideal for courses in Computer/Network Security. In recent years, the need for education in computer security and related topics has grown dramatically – and is essential for anyone studying Computer Science or Computer Engineering. This is the only text available to provide integrated, comprehensive, up-to-date coverage of the broad range of topics in this subject. In addition to an extensive pedagogical program, the book provides unparalleled support for both research and modeling projects, giving students a broader perspective. The Text and Academic Authors Association named Computer Security: Principles and Practice, 1e, the winner of the Textbook Excellence Award for the best Computer Science textbook of 2008.

This monograph on Security in Computing Systems: Challenges, Approaches and Solutions aims at introducing, surveying and assessing the fundamentals of se- rity with respect to computing. Here, “computing” refers to all activities which individuals or groups directly or indirectly perform by means of computing s- tems, i. e. , by means of computers and networks of them built on telecommuni- tion. We all are such individuals, whether enthusiastic or just bowed to the inevitable. So, as part of the ‘‘information society’’, we are challenged to maintain our values, to pursue our goals and to enforce our interests, by consciously desi- ing a ‘‘global information infrastructure’’ on a large scale as well as by approp- ately configuring our personal computers on a small scale. As a result, we hope to achieve secure computing: Roughly speaking, computer-assisted activities of in- viduals and computer-mediated cooperation between individuals should happen as required by each party involved, and nothing else which might be harmful to any party should occur. The notion of security circumscribes many aspects, ranging from human qua- ties to technical enforcement. First of all, in considering the explicit security requirements of users, administrators and other persons concerned, we hope that usually all persons will follow the stated rules, but we also have to face the pos- bility that some persons might deviate from the wanted behavior, whether ac- dently or maliciously.

One-volume coverage of all the core concepts, terminology, issues, and practical skills modern computer security professionals need to know * *The most up-to-date computer security concepts text on the market. *Strong coverage and comprehensive analysis of key attacks, including denial of service, malware, and viruses. *Covers oft-neglected subject areas such as cyberterrorism, computer fraud, and industrial espionage. *Contains end-of-chapter exercises, projects, review questions, and plenty of realworld tips.

Computer Security Fundamentals, Second Edition is designed to be the ideal one volume gateway into the entire field of computer security. It brings together thoroughly updated coverage of all basic concepts, terminology, and issues, along with the practical skills essential to security. Drawing on his extensive experience as both an IT professional and instructor, Chuck Easttom thoroughly covers core topics such as vulnerability assessment, virus attacks, buffer overflow, hacking, spyware, network defense, firewalls, VPNs, Intrusion Detection Systems, and passwords. Unlike many other authors, however, he also fully addresses more specialized issues, including cyber terrorism, industrial espionage and encryption - including public/private key systems, digital signatures, and certificates. This edition has been extensively updated to address the latest issues and technologies, including cyberbullying/cyberstalking, session hijacking, steganography, and more. Its examples have been updated to reflect the current state-of-the-art in both attacks and defense. End-of-chapter exercises, projects, and review questions guide readers in applying the knowledge they've gained, and Easttom offers many tips that readers would otherwise have to discover through hard experience.

A Sybex guide to Windows Security concepts, perfect for IT beginners Security is one of the most important components to every company's computer network. That's why the Security Fundamentals MTA Certification is so highly sought after. Filling IT positions is a top problem in today's businesses, so this certification could be your first step toward a stable and lucrative IT career. Security Fundamentals is your guide to developing a strong foundational understanding of Windows security, so you can take your IT career to the next level and feel confident going into the certification exam. Security Fundamentals features approachable discussion of core security concepts and topics, and includes additional learning tutorials and tools. This book covers everything you need to know about security layers, authentication, authorization, security policies, and protecting your server and client. Each chapter closes with a quiz so you can test your knowledge before moving to the next section. Learn everything you need for the Security Fundamentals MTA Certification Understand core security principles, including security layers and network security Learn essential concepts in physical security, internet security, and wireless security Identify the different types of hardware firewalls and their characteristics Test your knowledge and practice for the exam with quiz questions in every chapter IT professionals looking to understand more about networking will gain the knowledge to effectively secure a client and server, and to confidently explain basic security concepts. Thanks to the tools and tips in this Sybex title, you will be able to apply your new IT security skills in real world situations and on exam day.

"This book provides a valuable resource by addressing the most pressing issues facing cyber-security from both a national and global perspective"--Provided by publisher.

This reference work looks at modern concepts of computer security. It introduces the basic mathematical background necessary to follow computer security concepts before moving on to modern developments in cryptography. The concepts are presented clearly and illustrated by numerous examples. Subjects covered include: private-key and public-key encryption, hashing, digital signatures, authentication, secret sharing, group-oriented cryptography, and many others. The section on intrusion detection and access control provide examples of security systems implemented as a part of operating system. Database and network security is also discussed. The final chapters introduce modern e-business systems based on digital cash.

This is the first of two books serving as an expanded and up-dated version of Windows Server 2003 Security Infrastructures for Windows 2003 Server R2 and SP1 & SP2. The authors choose to encompass this material within two books in order to illustrate the intricacies of the different paths used to secure MS Windows server networks. Since its release in 2003 the Microsoft Exchange server has had two important updates, SP1 and SP2. SP1, allows users to increase their security, reliability and simplify the administration of the program. Within SP1, Microsoft has implemented R2 which improves identity and access management across security-related boundaries. R2 also improves branch office server management and increases the efficiency of storage setup and management. The second update, SP2 minimizes spam, pop-ups and unwanted downloads. These two updated have added an enormous amount of programming security to the server software. * Covers all SP1 and SP2 updates * Details strategies for patch management * Provides key techniques to maintain security application upgrades and updates

Internet of Things (IoT) security deals with safeguarding the devices and communications of IoT systems, by implementing protective measures and avoiding procedures which can lead to intrusions and attacks. However, security was never the prime focus during the development of the IoT, hence vendors have sold IoT solutions without thorough preventive measures. The idea of incorporating networking appliances in IoT systems is relatively new, and hence IoT security has not always been considered in the product design. To improve security, an IoT device that needs to be directly accessible over the Internet should be segmented into its own network, and have general network access restricted. The network segment should be monitored to identify potential anomalous traffic, and action should be taken if a problem arises. This has generated an altogether new area of research, which seeks possible solutions for securing the devices, and communication amongst them. Internet of Things Security: Fundamentals, Techniques and Applications provides a comprehensive overview of the overall scenario of IoT Security whilst highlighting recent research and applications in the field. Technical topics discussed in the book include: Machine-to-Machine CommunicationsIoT ArchitectureIdentity of ThingsBlockchainParametric CryptosystemSoftware and Cloud Components

If you're charged with maintaining the security of e-commerce sites, you need this unique book that provides an in-depth understanding of basic security problems and relevant e-commerce solutions, while helping you implement today's most advanced security technologies.

Information security is at the forefront of timely IT topics, due to the spectacular and well-publicized breaches of personal information stored by companies. To create a secure IT environment, many steps must be taken, but not all steps are created equal. There are technological measures that increase security, and some that do not do, but overall, the best defense is to create a culture of security in the organization. The same principles that guide IT security in the enterprise guide smaller organizations and individuals. The individual techniques and tools may vary by size, but everyone with a computer needs to turn on a firewall and have antivirus software. Personal information should be safeguarded by individuals and by the firms entrusted with it. As organizations and people develop security plans and put the technical pieces in place, a system can emerge that is greater than the sum of its parts.

Cybersecurity for Beginners KEY FEATURES ? In-depth coverage of cybersecurity concepts, vulnerabilities and detection mechanism. ? Cutting-edge coverage on frameworks, Intrusion detection methodologies and how to design cybersecurity infrastructure. ? Access to new tools, methodologies, frameworks and countermeasures developed for cybersecurity. DESCRIPTION Cybersecurity Fundamentals starts from the basics of data and information, includes detailed concepts of Information Security and Network Security, and shows the development of 'Cybersecurity' as an international problem. This book talks about how people started to explore the capabilities of Internet technologies

to conduct crimes globally. It covers the framework for analyzing cyber costs that enables us to have an idea about the financial damages. It also covers various forms of cybercrime which people face in their day-to-day lives and feel cheated either financially or blackmailed emotionally. The book also demonstrates Intrusion Detection Systems and its various types and characteristics for the quick detection of intrusions in our digital infrastructure. This book elaborates on various traceback schemes and their classification as per the utility. Criminals use stepping stones to mislead tracebacking and to evade their detection. This book covers stepping-stones detection algorithms with active and passive monitoring. It also covers various shortfalls in the Internet structure and the possible DDoS flooding attacks that take place nowadays. WHAT YOU WILL LEARN ? Get to know Cybersecurity in Depth along with Information Security and Network Security. ? Build Intrusion Detection Systems from scratch for your enterprise protection. ? Explore Stepping Stone Detection Algorithms and put into real implementation. ? Learn to identify and monitor Flooding-based DDoS Attacks. WHO THIS BOOK IS FOR This book is useful for students pursuing B.Tech.(CS)/M.Tech.(CS),B.Tech.(IT)/M.Tech.(IT), B.Sc (CS)/M.Sc (CS), B.Sc (IT)/M.Sc (IT), and B.C.A/M.C.A. The content of this book is important for novices who are interested to pursue their careers in cybersecurity. Anyone who is curious about Internet security and cybercrime can read this book too to enhance their knowledge. TABLE OF CONTENTS 1. Introduction to Cybersecurity 2. Cybersecurity Landscape and its Challenges 3. Information Security and Intrusion Detection System 4. Cybercrime Source Identification Techniques 5. Stepping-stone Detection and Tracing System 6. Infrastructural Vulnerabilities and DDoS Flooding Attacks
Information Security: Principles and Practices, Second Edition Everything You Need to Know About Modern Computer Security, in One Book Clearly explains all facets of information security in all 10 domains of the latest Information Security Common Body of Knowledge [(ISC)² CBK]. Thoroughly updated for today's challenges, technologies, procedures, and best practices. The perfect resource for anyone pursuing an IT security career. Fully updated for the newest technologies and best practices, Information Security: Principles and Practices, Second Edition thoroughly covers all 10 domains of today's Information Security Common Body of Knowledge. Two highly experienced security practitioners have brought together all the foundational knowledge you need to succeed in today's IT and business environments. They offer easy-to-understand, practical coverage of topics ranging from security management and physical security to cryptography and application development security. This edition fully addresses new trends that are transforming security, from cloud services to mobile applications, “Bring Your Own Device” (BYOD) strategies to today's increasingly rigorous compliance requirements. Throughout, you'll find updated case studies, review questions, and exercises–all designed to reveal today's real-world IT security challenges and help you overcome them. Learn how to -- Recognize the evolving role of IT security -- Identify the best new opportunities in the field -- Discover today's core information security principles of success -- Understand certification programs and the CBK -- Master today's best practices for governance and risk management -- Architect and design systems to maximize security -- Plan for business continuity -- Understand the legal, investigatory, and ethical requirements associated with IT security -- Improve physical and operational security -- Implement effective access control systems -- Effectively utilize cryptography -- Improve network and Internet security -- Build more secure software -- Define more effective security policies and standards -- Preview the future of information security
We live in a wired society, with computers containing and passing around vital information on both personal and public matters. Keeping this data safe is of paramount concern to all. Yet, not a day seems able to pass without some new threat to our computers. Unfortunately, the march of technology has given us the benefits of computers and electronic tools, while also opening us to unforeseen dangers. Identity theft, electronic spying, and the like are now standard worries. In the effort to defend both personal privacy and crucial databases, computer security has become a key industry. A vast array of companies devoted to defending computers from hackers and viruses have cropped up. Research and academic institutions devote a considerable amount of time and effort to the study of information systems and computer security. Anyone with access to a computer needs to be aware of the developing trends and growth of computer security. To that end, this book presents a comprehensive and carefully selected bibliography of the literature most relevant to understanding computer security. Following the bibliography section, continued access is provided via author, title, and subject indexes. With such a format, this book serves as an important guide and reference tool in the defence of our computerised culture.
Developing an information security program that adheres to the principle of security as a business enabler must be the first step in an enterprise’s effort to build an effective security program. Following in the footsteps of its bestselling predecessor, Information Security Fundamentals, Second Edition provides information security professionals with a clear understanding of the fundamentals of security required to address the range of issues they will experience in the field. The book examines the elements of computer security, employee roles and responsibilities, and common threats. It discusses the legal requirements that impact security policies, including Sarbanes-Oxley, HIPAA, and the Gramm-Leach-Bliley Act. Detailing physical security requirements and controls, this updated edition offers a sample physical security policy and includes a complete list of tasks and objectives that make up an effective information protection program. Includes ten new chapters Broadens its coverage of regulations to include FISMA, PCI compliance, and foreign requirements Expands its coverage of compliance and governance issues Adds discussions of ISO 27001, ITIL, COSO, COBIT, and other frameworks Presents new information on mobile security issues Reorganizes the contents around ISO 27002 The book discusses organization-wide policies, their documentation, and legal and business requirements. It explains policy format with a focus on global, topic-specific, and application-specific policies. Following a review of asset classification, it explores access control, the components of physical security, and the foundations and processes of risk analysis and risk management. The text concludes by describing business continuity planning, preventive controls, recovery strategies, and how to conduct a business impact analysis. Each chapter in the book has been written by a different expert to ensure you gain the

comprehensive understanding of what it takes to develop an effective information security program.

This book encompasses a systematic exploration of Cybersecurity Data Science (CSDS) as an emerging profession, focusing on current versus idealized practice. This book also analyzes challenges facing the emerging CSDS profession, diagnoses key gaps, and prescribes treatments to facilitate advancement. Grounded in the management of information systems (MIS) discipline, insights derive from literature analysis and interviews with 50 global CSDS practitioners. CSDS as a diagnostic process grounded in the scientific method is emphasized throughout Cybersecurity Data Science (CSDS) is a rapidly evolving discipline which applies data science methods to cybersecurity challenges. CSDS reflects the rising interest in applying data-focused statistical, analytical, and machine learning-driven methods to address growing security gaps. This book offers a systematic assessment of the developing domain. Advocacy is provided to strengthen professional rigor and best practices in the emerging CSDS profession. This book will be of interest to a range of professionals associated with cybersecurity and data science, spanning practitioner, commercial, public sector, and academic domains. Best practices framed will be of interest to CSDS practitioners, security professionals, risk management stewards, and institutional stakeholders. Organizational and industry perspectives will be of interest to cybersecurity analysts, managers, planners, strategists, and regulators. Research professionals and academics are presented with a systematic analysis of the CSDS field, including an overview of the state of the art, a structured evaluation of key challenges, recommended best practices, and an extensive bibliography.

Malware analysis is big business, and attacks can cost a company dearly. When malware breaches your defenses, you need to act quickly to cure current infections and prevent future ones from occurring. For those who want to stay ahead of the latest malware, Practical Malware Analysis will teach you the tools and techniques used by professional analysts. With this book as your guide, you'll be able to safely analyze, debug, and disassemble any malicious software that comes your way. You'll learn how to: –Set up a safe virtual environment to analyze malware –Quickly extract network signatures and host-based indicators –Use key analysis tools like IDA Pro, OllyDbg, and WinDbg –Overcome malware tricks like obfuscation, anti-disassembly, anti-debugging, and anti-virtual machine techniques –Use your newfound knowledge of Windows internals for malware analysis –Develop a methodology for unpacking malware and get practical experience with five of the most popular packers –Analyze special cases of malware with shellcode, C++, and 64-bit code Hands-on labs throughout the book challenge you to practice and synthesize your skills as you dissect real malware samples, and pages of detailed dissections offer an over-the-shoulder look at how the pros do it. You'll learn how to crack open malware to see how it really works, determine what damage it has done, thoroughly clean your network, and ensure that the malware never comes back. Malware analysis is a cat-and-mouse game with rules that are constantly changing, so make sure you have the fundamentals. Whether you're tasked with securing one network or a thousand networks, or you're making a living as a malware analyst, you'll find what you need to succeed in Practical Malware Analysis.

Effective security rules and procedures do not exist for their own sake-they are put in place to protect critical assets, thereby supporting overall business objectives. Recognizing security as a business enabler is the first step in building a successful program. Information Security Fundamentals allows future security professionals to gain a solid understanding of the foundations of the field and the entire range of issues that practitioners must address. This book enables students to understand the key elements that comprise a successful information security program and eventually apply these concepts to their own efforts. The book examines the elements of computer security, employee roles and responsibilities, and common threats. It examines the need for management controls, policies and procedures, and risk analysis, and also presents a comprehensive list of tasks and objectives that make up a typical information protection program. The volume discusses organizationwide policies and their documentation, and legal and business requirements. It explains policy format, focusing on global, topic-specific, and application-specific policies. Following a review of asset classification, the book explores access control, the components of physical security, and the foundations and processes of risk analysis and risk management. Information Security Fundamentals concludes by describing business continuity planning, including preventive controls, recovery strategies, and ways to conduct a business impact analysis.

The sophisticated methods used in recent high-profile cyber incidents have driven many to need to understand how such security issues work. Demystifying the complexity often associated with information assurance, Cyber Security Essentials provides a clear understanding of the concepts behind prevalent threats, tactics, and procedures.To accomplish Welcome to today's most useful and practical one-volume introduction to computer security. Chuck Easttom brings together up-to-the-minute coverage of all basic concepts, terminology, and issues, along with all the skills you need to get started in the field. Drawing on his extensive experience as a security instructor and consultant, Easttom thoroughly covers core topics, such as vulnerability assessment, virus attacks, hacking, spyware, network defense, passwords, firewalls, VPNs, and intrusion detection. Writing clearly and simply, he fully addresses crucial issues that many introductory security books ignore, from industrial espionage to cyberbullying. Computer Security Fundamentals, Third Edition is packed with tips and examples, all extensively updated for the state-of-the-art in both attacks and defense. Each chapter offers exercises, projects, and review questions designed to deepen your understanding and help you apply all you've learned. Whether you're a student, a system or network administrator, a manager, or a law enforcement professional, this book will help you protect your systems and data and expand your career options. Learn how to Identify the worst threats to your network and assess your risks Get inside the minds of hackers, so you can prevent their attacks Implement a proven layered approach to network security Use basic networking knowledge to improve security Resist the full spectrum of Internet-based scams and frauds Defend against today's most common Denial of Service (DoS) attacks Prevent attacks by viruses, spyware, and other malware Protect against low-tech social engineering attacks Choose the best encryption methods for your organization Select firewalls and other security

technologies Implement security policies that will work in your environment Scan your network for vulnerabilities Evaluate potential security consultants Understand cyberterrorism and information warfare Master basic computer forensics and know what to do after you're attacked

This book on computer security threats explores the computer security threats and includes a broad set of solutions to defend the computer systems from these threats. The book is triggered by the understanding that digitalization and growing dependence on the Internet poses an increased risk of computer security threats in the modern world. The chapters discuss different research frontiers in computer security with algorithms and implementation details for use in the real world. Researchers and practitioners in areas such as statistics, pattern recognition, machine learning, artificial intelligence, deep learning, data mining, data analytics and visualization are contributing to the field of computer security. The intended audience of this book will mainly consist of researchers, research students, practitioners, data analysts, and business professionals who seek information on computer security threats and its defensive measures.

Reflecting the latest trends and developments from the information security field, best-selling Security+ Guide to Network Security Fundamentals, Fourth Edition, provides a complete introduction to practical network and computer security and maps to the CompTIA Security+ SY0-301 Certification Exam. The text covers the fundamentals of network security, including compliance and operational security; threats and vulnerabilities; application, data, and host security; access control and identity management; and cryptography. The updated edition includes new topics, such as psychological approaches to social engineering attacks, Web application attacks, penetration testing, data loss prevention, cloud computing security, and application programming development security. The new edition features activities that link to the Information Security Community Site, which offers video lectures, podcats, discussion boards, additional hands-on activities and more to provide a wealth of resources and up-to-the minute information. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Computer Security FundamentalsQue Publishing

This is a monumental reference for the theory and practice of computer security. Comprehensive in scope, this text covers applied and practical elements, theory, and the reasons for the design of applications and security techniques. It covers both the management and the engineering issues of computer security. It provides excellent examples of ideas and mechanisms that demonstrate how disparate techniques and principles are combined in widely-used systems. This book is acclaimed for its scope, clear and lucid writing, and its combination of formal and theoretical aspects with real systems, technologies, techniques, and policies.

To deal with security issues effectively, knowledge of theories alone is not sufficient. Practical experience is essential. Helpful for beginners and industry practitioners, this book develops a concrete outlook, providing readers with basic concepts and an awareness of industry standards and best practices. Chapters address cryptography and network security, system-level security, and applications for network security. The book also examines application level attacks, practical software security, and securing application-specific networks. Ganguly Debashis speaks about Network and Application Security

As modern technologies, such as credit cards, social networking, and online user accounts, become part of the consumer lifestyle, information about an individual’s purchasing habits, associations, or other information has become increasingly less private. As a result, the details of consumers’ lives can now be accessed and shared among third party entities whose motivations lie beyond the grasp, and even understanding, of the original owners. Anonymous Security Systems and Applications: Requirements and Solutions outlines the benefits and drawbacks of anonymous security technologies designed to obscure the identities of users. These technologies may help solve various privacy issues and encourage more people to make full use of information and communication technologies, and may help to establish more secure, convenient, efficient, and environmentally-friendly societies.

Clearly explains core concepts, terminology, challenges, technologies, and skills Covers today’s latest attacks and countermeasures The perfect beginner’s guide for anyone interested in a computer security career Dr. Chuck Easttom brings together complete coverage of all basic concepts, terminology, and issues, along with all the skills you need to get started. Drawing on 30 years of experience as a security instructor, consultant, and researcher, Easttom helps you take a proactive, realistic approach to assessing threats and implementing countermeasures. Writing clearly and simply, he addresses crucial issues that many introductory security books ignore, while addressing the realities of a world where billions of new devices are Internet-connected. This guide covers web attacks, hacking, spyware, network defense, security appliances, VPNs, password use, and much more. Its many tips and examples reflect new industry trends and the state-of-the-art in both attacks and defense. Exercises, projects, and review questions in every chapter help you deepen your understanding and apply all you’ve learned. Whether you’re a student, a professional, or a manager, this guide will help you protect your assets—and expand your career options. LEARN HOW TO Identify and prioritize potential threats to your network Use basic networking knowledge to improve security Get inside the minds of hackers, so you can deter their attacks Implement a proven layered approach to network security Resist modern social engineering attacks Defend against today’s most common Denial of Service (DoS) attacks Halt viruses, spyware, worms, Trojans, and other malware Prevent problems arising from malfeasance or ignorance Choose the best encryption methods for your organization Compare security technologies, including the latest security appliances Implement security policies that will work in your environment Scan your network for vulnerabilities Evaluate potential security consultants Master basic computer forensics and know what to do if you’re attacked Learn how cyberterrorism and information warfare are evolving

Includes one year of FREE access after activation to the online test bank and study tools: Custom practice exam 100 electronic flashcards Searchable key term glossary The Sybex™ method for teaching Linux® security concepts Understanding Linux Security is essential for administration professionals. Linux Security Fundamentals covers all the IT security basics to help active and aspiring admins respond successfully to the modern threat landscape. You'll improve your ability to combat major security threats against computer systems, networks, and services. You'll discover how to prevent and mitigate attacks against personal devices and how to encrypt secure data transfers through networks, storage devices, or the cloud. Linux Security Fundamentals

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Revised and updated with the latest data in the field, Fundamentals of Information Systems Security, Third Edition provides a comprehensive overview of the essential concepts readers must know as they pursue careers in information systems security. The text opens with a discussion of the new risks, threats, and vulnerabilities associated with the transition to a digital world. Part 2 presents a high level overview of the Security+ Exam and provides students with information as they move toward this certification.