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guide to network defense and countermeasures international edition provides a thorough guide to perimeter defense fundamentals including intrusion detection and firewalls this trusted text also covers more advanced topics such as security policies network address translation nat packet filtering and analysis proxy servers virtual private networks vpn and network traffic signatures thoroughly updated the new third edition reflects the latest technology trends and techniques including virtualization vmware ipv6 and icmpv6 structure making it easier for current and aspiring professionals to stay on the cutting edge and one step ahead of potential security threats a clear writing style and numerous screenshots and illustrations make even complex technical material easier to understand while tips activities and projects throughout the text allow students to hone their skills by applying what they learn perfect for students and professionals alike in this high demand fast growing field guide to network defense and countermeasures international edition is a must have resource for success as a network security professional

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the cyber security of vital infrastructure and services has become a major concern for countries worldwide the members of nato are no exception and they share a responsibility to help the global community to strengthen its cyber defenses against malicious cyber activity this book presents 10 papers and 21 specific findings from the nato advanced research workshop arw best practices in computer network defense cnd incident detection and response held in geneva switzerland in september 2013 the workshop was attended by a multi disciplinary team of experts from 16 countries and three international institutions the book identifies the state of the art tools and processes being used for cyber defense and highlights gaps in the technology it presents the best practice of industry and government for incident detection and response and examines indicators and metrics for progress along the security continuum this book provides those operators and decision makers whose work it is to strengthen the cyber defenses of the global community with genuine tools and expert advice keeping pace and deploying advanced process or technology is only possible when you know what is available this book shows what is possible and available today for computer network defense and for incident detection and response

this book discusses and summarizes current research issues identifies challenges and outlines future directions for proactive and dynamic network defense this book also presents the latest fundamental research results toward understanding proactive and dynamic network defense by top researchers in related areas it includes research results that offer formal frameworks to define proactive and dynamic network defense and develop novel models to analyze and evaluate proactive designs and strategies in computer systems network systems cyber physical systems and wireless networks a wide variety of scientific techniques have been highlighted to study these problems in the fundamental domain as the convergence of our physical and digital worlds grows fast pace protecting information systems from being tampered or unauthorized access is becoming one of the most importance issues the traditional mechanisms of network defense are built upon a static passive and reactive nature which has insufficient to defend against today s attackers that attempt to persistently analyze probe circumvent or fool such mechanisms it has not yet been fully investigated to address the early stage of cyber kill chain when adversaries carry out sophisticated reconnaissance to plan attacks against a defense system recently proactive and dynamic network defense has been proposed as an important alternative towards comprehensive network defense two representative types of such defense are moving target defense mtd and deception based techniques these emerging approaches show great promise to proactively disrupt the cyber attack kill chain and are increasingly gaining interest within both academia and industry however these approaches are still in their preliminary design stage despite the promising potential there areresearch issues yet to be solved regarding the effectiveness efficiency costs and usability of such approaches in addition it is also necessary to identify future research directions and challenges which is an essential step towards fully embracing proactive and dynamic network defense this book will serve as a great introduction for advanced level computer science and engineering students who would like to start r d efforts in the field of proactive and dynamic network defense researchers and professionals who work in this related field will also find this book useful as a reference

this book provides academia and organizations insights into practical and applied solutions frameworks technologies and implementations for situational awareness in computer networks provided by publisher

guide to network defense and countermeasures 2e is the second of two books that are required for level one of the security certified program scp this edition has been revised with updated content and maps clearly to the exam objectives for the current security certified network professional scnp exam although the primary emphasis is on intrusion detection the book also covers such essential practices as developing a security policy and then implementing that policy by performing network address translation setting up packet filtering and installing proxy servers firewalls and virtual private networks important notice media content referenced within the product description or the product text may not be available in the ebook version

everything you need to know about modern network attacks and defense in one book clearly explains core network security concepts challenges technologies and skills thoroughly updated for the latest attacks and countermeasures the perfect beginner s guide for anyone interested in a network security career security is the

it industry s hottest topic and that s where the hottest opportunities are too organizations desperately need professionals who can help them safeguard against the most sophisticated attacks ever created attacks from well funded global criminal syndicates and even governments today security begins with defending the organizational network network defense and countermeasures second edition is today s most complete easy to understand introduction to modern network attacks and their effective defense from malware and ddos attacks to firewalls and encryption chuck easttom blends theoretical foundations with up to the minute best practice techniques starting with the absolute basics he discusses crucial topics many security books overlook including the emergence of network based espionage and terrorism if you have a basic understanding of networks that s all the background you ll need to succeed with this book no math or advanced computer science is required you ll find projects questions exercises case studies links to expert resources and a complete glossary all designed to deepen your understanding and prepare you to defend real world networks learn how to understand essential network security concepts challenges and careers learn how modern attacks work discover how firewalls intrusion detection systems ids and virtual private networks vpns combine to protect modern networks select the right security technologies for any network environment use encryption to protect information harden windows and linux systems and keep them patched securely configure web browsers to resist attacks defend against malware define practical enforceable security policies use the 6 ps to assess technical and human aspects of system security detect and fix system vulnerability apply proven security standards and models including orange book common criteria and bell lapadula ensure physical security and prepare for disaster recovery know your enemy learn basic hacking and see how to counter it understand standard forensic techniques and prepare for investigations of digital crime

the network defense series from ec council press is comprised of 5 books designed to educate learners from a vendor neutral standpoint how to defend the networks they manage this series covers the fundamental skills in evaluating internal and external threats to network security and design how to enforce network level security policies and how to ultimately protect an organization s information the books in the series cover a broad range of topics from secure network fundamentals protocols analysis standards and policy hardening infrastructure to configuring ips ids firewalls bastion host and honeypots learners completing this series will have a full understanding of defensive measures taken to secure their organization s information and along with the proper experience these books will prepare readers for the ec council network security administrator e nsa certification an organization is only as strong as its weakest link the same is true in network security mis configurations outdated software and technical glitches are often the easiest point of entry for a hacker this book the third in the series is designed to teach the potential security practitioner how to harden the network infrastructure evaluate hardware and software configurations and introduce log analysis creating a strong foundation for network security troubleshooting response and repair important notice media content referenced within the product description or the product text may not be available in the ebook version

this book is the first one that comprehensively discusses cyberspace sovereignty in china reflecting china s clear attitude in the global internet governance respecting every nation s right to independently choose a development path cyber management modes and internet public policies and to participate in the international cyberspace governance on an equal footing at present the concept of cyberspace sovereignty is still very strange to many people so it needs to be thoroughly analyzed this book will not only help scientific and technical workers in the field of cyberspace security law researchers and the public understand the development of cyberspace sovereignty at home and abroad but also serve as reference basis for the relevant decision making and management departments in their work

cyberwarfare information operations in a connected world puts students on the real world battlefield of cyberspace it reviews the role that cyberwarfare plays in modern military operations operations in which it has become almost impossible to separate cyberwarfare from traditional warfare

in the last decade the proliferation of billions of new internet enabled devices and users has significantly expanded concerns about cybersecurity how much should we worry about cyber threats and their impact on our lives society and international affairs are these security concerns real exaggerated or just poorly understood in this fully revised and updated second edition of their popular text damien van puyvelde and aaron f brantly provide a cutting edge introduction to the key concepts controversies and policy debates in cybersecurity today exploring the interactions of individuals groups and states in cyberspace and the

integrated security risks to which these give rise they examine cyberspace as a complex socio technical economic domain that fosters both great potential and peril across its ten chapters the book explores the complexities and challenges of cybersecurity using new case studies such as notpetya and colonial pipeline to highlight the evolution of attacks that can exploit and damage individual systems and critical infrastructures this edition also includes reader s guides and active learning exercises in addition to questions for group discussion cybersecurity is essential reading for anyone interested in understanding the challenges and opportunities presented by the continued expansion of cyberspace

guide to network defense and countermeasures examines the practice of intrusion detection which encompasses virtually all aspects of network security as more businesses and organizations use the internet for day to day communications they can use intrusion detection techniques to deter attacks detect intrusion attempts respond to break ins assess the damage of hack attacks and locate and prosecute intruders guide to network defense and countermeasures includes coverage of intrusion detection design and implementation firewalls design and implementation virtual private networks vpns packet filters and network traffic signatures in addition this text prepares students to take the network defense and countermeasures exam which is the second exam for the security certified professional scp certification

a guide to the national initiative for cybersecurity education nice cybersecurity workforce framework 2 0 presents a comprehensive discussion of the tasks knowledge skill and ability ksa requirements of the nice cybersecurity workforce framework 2 0 it discusses in detail the relationship between the nice framework and the nist s cybersecurity framework csf showing how the nice model specifies what the particular specialty areas of the workforce should be doing in order to ensure that the csf s identification protection defense response or recovery functions are being carried out properly the authors construct a detailed picture of the proper organization and conduct of a strategic infrastructure security operation describing how these two frameworks provide an explicit definition of the field of cybersecurity the book is unique in that it is based on well accepted standard recommendations rather than presumed expertise it is the first book to align with and explain the requirements of a national level initiative to standardize the study of information security moreover it contains knowledge elements that represent the first fully validated and authoritative body of knowledge bok in cybersecurity the book is divided into two parts the first part is comprised of three chapters that give you a comprehensive understanding of the structure and intent of the nice model its various elements and their detailed contents the second part contains seven chapters that introduce you to each knowledge area individually together these parts help you build a comprehensive understanding of how to organize and execute a cybersecurity workforce definition using standard best practice

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