

Network Defense Security Policy And Threats Ec Council Press

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Class Cybersecurity Operations Center Advanced
Persistent Security Guide to Network Defense and
Countermeasures Cyber Security and Global
Information Assurance: Threat Analysis and Response
Solutions Advances in Computer Science,
Environment, Ecoinformatics, and Education, Part
IV Hands-On Ethical Hacking and Network
Defense National cyber security : framework
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End-to-End Network Security

Over the past year there has been a shift within the computer security world away from passive, reactive defense towards more aggressive, proactive countermeasures. Although such tactics are extremely controversial, many security professionals are reaching into the dark side of their tool box to identify, target, and suppress their adversaries. This book will provide a detailed analysis of the most timely and dangerous attack vectors targeted at operating systems, applications, and critical infrastructure and the cutting-edge counter-measures used to nullify the actions of an attacking, criminal hacker. *First book to demonstrate and explore controversial network strike back and countermeasure techniques. *Provides tightly guarded secrets to find out WHO is really attacking you over the internet. *Provides security professionals and forensic specialists with invaluable information for finding and prosecuting criminal hackers.

Cyber Defense Mechanisms

GUIDE TO NETWORK DEFENSE AND COUNTERMEASURES 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 you to hone your skills by applying what you learn. Perfect for students and professionals alike in this high-demand, fast-growing field, GUIDE TO NETWORK DEFENSE AND COUNTERMEASURES, Third Edition, is a must-have resource for success as a network security professional. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Situational Awareness in Computer Network Defense: Principles, Methods and Applications

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An in-depth knowledge of how to configure Cisco IP network security is a MUST for anyone working in today's internetworked world "There's no question that attacks on enterprise networks are increasing in frequency and sophistication"-Mike Fuhrman, Cisco Systems Manager, Security Consulting Managing Cisco Network Security, Second Edition offers updated and revised information covering many of Cisco's security products that provide protection from threats, detection of network security incidents, measurement of vulnerability and policy compliance and management of security policy across an extended organization. These are the tools that network administrators have to mount defenses against threats. Chapters also cover the improved functionality and ease of the Cisco Secure Policy Manger software used by thousands of small-to-midsized businesses and a special section on the Cisco Aironet Wireless Security Solutions. Security from a real-world perspective Key coverage of the new technologies offered by the Cisco including: 500 series of Cisco PIX Firewall, Cisco Intrusion Detection System, and the Cisco Secure Scanner Revised edition of a text popular with CCIP (Cisco Certified Internetwork Professional) students Expanded to include separate chapters on each of the security products offered by Cisco Systems

Network Defense: Fundamentals and Protocols

Critical Infrastructure Protection in

Homeland Security

"What, exactly, is 'National Cyber Security'? The rise of cyberspace as a field of human endeavour is probably nothing less than one of the most significant developments in world history. Cyberspace already directly impacts every facet of human existence including economic, social, cultural and political developments, and the rate of change is not likely to stop anytime soon. However, the socio-political answers to the questions posed by the rise of cyberspace often significantly lag behind the rate of technological change. One of the fields most challenged by this development is that of 'national security'. The National Cyber Security Framework Manual provides detailed background information and in-depth theoretical frameworks to help the reader understand the various facets of National Cyber Security, according to different levels of public policy formulation. The four levels of government--political, strategic, operational and tactical/technical--each have their own perspectives on National Cyber Security, and each is addressed in individual sections within the Manual. Additionally, the Manual gives examples of relevant institutions in National Cyber Security, from top-level policy coordination bodies down to cyber crisis management structures and similar institutions."--Page 4 of cover.

Aggressive Network Self-Defense

All you need to know about defending networks, in one book · Clearly explains concepts, terminology,

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challenges, tools, and skills · Covers key security standards and models for business and government · The perfect introduction for all network/computer security professionals and students Welcome to today's most useful and practical introduction to defending modern networks. Drawing on decades of experience, Chuck Easttom brings together updated coverage of all the concepts, terminology, techniques, and solutions you'll need to be effective. Easttom thoroughly introduces the core technologies of modern network security, including firewalls, intrusion-detection systems, and VPNs. Next, he shows how encryption can be used to safeguard data as it moves across networks. You'll learn how to harden operating systems, defend against malware and network attacks, establish robust security policies, and assess network security using industry-leading standards and models. You'll also find thorough coverage of key issues such as physical security, forensics, and cyberterrorism. Throughout, Easttom blends theory and application, helping you understand both what to do and why. In every chapter, quizzes, exercises, projects, and web resources deepen your understanding and help you use what you've learned—in the classroom and in your career. Learn How To · Evaluate key network risks and dangers · Choose the right network security approach for your organization · Anticipate and counter widespread network attacks, including those based on “social engineering” · Successfully deploy and apply firewalls and intrusion detection systems · Secure network communication with virtual private networks · Protect data with cryptographic public/private key systems, digital signatures, and certificates · Defend against

malware, including ransomware, Trojan horses, and spyware · Harden operating systems and keep their security up to date · Define and implement security policies that reduce risk · Explore leading security standards and models, including ISO and NIST standards · Prepare for an investigation if your network has been attacked · Understand the growing risks of espionage and cyberterrorism

Best Practices in Computer Network Defense: Incident Detection and Response

As recently as five years ago, securing a network meant putting in a firewall, intrusion detection system, and installing antivirus software on the desktop. Unfortunately, attackers have grown more nimble and effective, meaning that traditional security programs are no longer effective. Today's effective cyber security programs take these best practices and overlay them with intelligence. Adding cyber threat intelligence can help security teams uncover events not detected by traditional security platforms and correlate seemingly disparate events across the network. Properly-implemented intelligence also makes the life of the security practitioner easier by helping him more effectively prioritize and respond to security incidents. The problem with current efforts is that many security practitioners don't know how to properly implement an intelligence-led program, or are afraid that it is out of their budget. Building an Intelligence-Led Security Program is the first book to show how to implement

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an intelligence-led program in your enterprise on any budget. It will show you how to implement a security information a security information and event management system, collect and analyze logs, and how to practice real cyber threat intelligence. You'll learn how to understand your network in-depth so that you can protect it in the best possible way. Provides a roadmap and direction on how to build an intelligence-led information security program to protect your company. Learn how to understand your network through logs and client monitoring, so you can effectively evaluate threat intelligence. Learn how to use popular tools such as BIND, SNORT, squid, STIX, TAXII, CyBox, and splunk to conduct network intelligence.

Network Defense: Perimeter Defense Mechanisms

"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.

Penetration Testing and Network Defense

"excellent for use as a text in information assurance or cyber-security courses! strongly advocate that professors examine this book with the intention of using it in their programs." (Computing Reviews.com, March 22, 2007) "The book is written as a student textbook, but it should be equally valuable for current

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practitionersthis book is a veryworthwhile investment." (Homeland Security Watch, August 17,2006) While the emphasis is on the development of policies that lead tosuccessful prevention of terrorist attacks on the nation'sinfrastructure, this book is the first scientific study of criticalinfrastructures and their protection. The book models thenation's most valuable physical assets and infrastructuresectors as networks of nodes and links. It then analyzes thenetwork to identify vulnerabilities and risks in the sectorcombining network science, complexity theory, modeling andsimulation, and risk analysis. The most critical components become the focus of deeper analysisand protection. This approach reduces the complex problem ofprotecting water supplies, energy pipelines, telecommunicationstations, Internet and Web networks, and power grids to a muchsimpler problem of protecting a few critical nodes. The new editionincorporates a broader selection of ideas and sectors and moves themathematical topics into several appendices.

Cybersecurity in France

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,

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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*

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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 2

A Review of U.S. Navy Cyber Defense Capabilities

Enhance your organization's secure posture by improving your attack and defense strategies Key Features Gain a clear understanding of the attack methods, and patterns to recognize abnormal behavior within your organization with Blue Team tactics. Learn to unique techniques to gather exploitation intelligence, identify risk and demonstrate impact with Red Team and Blue Team strategies. A practical guide that will give you hands-on experience to mitigate risks and prevent attackers from infiltrating your system. Book Description The book will start talking about the security posture before moving to Red Team tactics, where you will learn the basic syntax for the Windows and Linux tools that are commonly used to perform the necessary operations. You will also gain hands-on experience of using new Red Team techniques with powerful tools such as python and PowerShell, which will enable you to discover vulnerabilities in your system and how to exploit them. Moving on, you will learn how a system is usually compromised by

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adversaries, and how they hack user's identity, and the various tools used by the Red Team to find vulnerabilities in a system. In the next section, you will learn about the defense strategies followed by the Blue Team to enhance the overall security of a system. You will also learn about an in-depth strategy to ensure that there are security controls in each network layer, and how you can carry out the recovery process of a compromised system. Finally, you will learn how to create a vulnerability management strategy and the different techniques for manual log analysis. By the end of this book, you will be well-versed with Red Team and Blue Team techniques and will have learned the techniques used nowadays to attack and defend systems. What you will learn

Learn the importance of having a solid foundation for your security posture
Understand the attack strategy using cyber security kill chain
Learn how to enhance your defense strategy by improving your security policies, hardening your network, implementing active sensors, and leveraging threat intelligence
Learn how to perform an incident investigation
Get an in-depth understanding of the recovery process
Understand continuous security monitoring and how to implement a vulnerability management strategy
Learn how to perform log analysis to identify suspicious activities

Who this book is for
This book aims at IT professional who want to venture the IT security domain. IT pentester, Security consultants, and ethical hackers will also find this course useful. Prior knowledge of penetration testing would be beneficial.

Cyberpower and National Security

The Basics of Cyber Warfare provides readers with fundamental knowledge of cyber war in both theoretical and practical aspects. This book explores the principles of cyber warfare, including military and cyber doctrine, social engineering, and offensive and defensive tools, tactics and procedures, including computer network exploitation (CNE), attack (CNA) and defense (CND). Readers learn the basics of how to defend against espionage, hacking, insider threats, state-sponsored attacks, and non-state actors (such as organized criminals and terrorists). Finally, the book looks ahead to emerging aspects of cyber security technology and trends, including cloud computing, mobile devices, biometrics and nanotechnology. The Basics of Cyber Warfare gives readers a concise overview of these threats and outlines the ethics, laws and consequences of cyber warfare. It is a valuable resource for policy makers, CEOs and CIOs, penetration testers, security administrators, and students and instructors in information security. Provides a sound understanding of the tools and tactics used in cyber warfare. Describes both offensive and defensive tactics from an insider's point of view. Presents doctrine and hands-on techniques to understand as cyber warfare evolves with technology.

Network Defense: Security and Vulnerability Assessment

This book constitutes the refereed post-proceedings

of the 9th IFIP International Conference on Network and Parallel Computing, NPC 2012, held in Gwangju, Korea, in September 2012. The 38 papers presented were carefully reviewed and selected from 136 submissions. The papers are organized in the following topical sections: algorithms, scheduling, analysis, and data mining; network architecture and protocol design; network security; paralel, distributed, and virtualization techniques; performance modeling, prediction, and tuning; resource management; ubiquitous communications and networks; and web, communication, and cloud computing. In addition, a total of 37 papers selected from five satellite workshops (ATIMCN, ATSME, Cloud&Grid, DATICS, and UMAS 2012) are included.

The Basics of Cyber Warfare

Cyber Warfare Techniques, Tactics and Tools for Security Practitioners provides a comprehensive look at how and why digital warfare is waged. This book explores the participants, battlefields, and the tools and techniques used during today's digital conflicts. The concepts discussed will give students of information security a better idea of how cyber conflicts are carried out now, how they will change in the future, and how to detect and defend against espionage, hacktivism, insider threats and non-state actors such as organized criminals and terrorists. Every one of our systems is under attack from multiple vectors - our defenses must be ready all the time and our alert systems must detect the threats every time. This book provides concrete examples

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and real-world guidance on how to identify and defend a network against malicious attacks. It considers relevant technical and factual information from an insider's point of view, as well as the ethics, laws and consequences of cyber war and how computer criminal law may change as a result. Starting with a definition of cyber warfare, the book's 15 chapters discuss the following topics: the cyberspace battlefield; cyber doctrine; cyber warriors; logical, physical, and psychological weapons; computer network exploitation; computer network attack and defense; non-state actors in computer network operations; legal system impacts; ethics in cyber warfare; cyberspace challenges; and the future of cyber war. This book is a valuable resource to those involved in cyber warfare activities, including policymakers, penetration testers, security professionals, network and systems administrators, and college instructors. The information provided on cyber tactics and attacks can also be used to assist in developing improved and more efficient procedures and technical defenses. Managers will find the text useful in improving the overall risk management strategies for their organizations. Provides concrete examples and real-world guidance on how to identify and defend your network against malicious attacks Dives deeply into relevant technical and factual information from an insider's point of view Details the ethics, laws and consequences of cyber war and how computer criminal law may change as a result

National Security Strategy of the United States

Ten Strategies of a World-Class Cyber Security Operations Center conveys MITRE's accumulated expertise on enterprise-grade computer network defense. It covers ten key qualities of leading Cyber Security Operations Centers (CSOCs), ranging from their structure and organization, to processes that best enable smooth operations, to approaches that extract maximum value from key CSOC technology investments. This book offers perspective and context for key decision points in structuring a CSOC, such as what capabilities to offer, how to architect large-scale data collection and analysis, and how to prepare the CSOC team for agile, threat-based response. If you manage, work in, or are standing up a CSOC, this book is for you. It is also available on MITRE's website, www.mitre.org.

Network and Parallel Computing

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

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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. Un-patched software on network operating systems and hardware can be a common point of attack for an intruder. Vulnerability analysis will often identify outdated software and exploitation is soon to follow. This book, the fourth in the series, prepares the practitioner to create and administer effective policies and best practices in patch management, OS configuration and analysis to identify potential Network Security Weaknesses. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Cybersecurity ??? Attack and Defense Strategies

Defense in Depth

Cyber-terrorism and corporate espionage are increasingly common and devastating threats, making trained network security professionals more important than ever. This timely text helps you gain the knowledge and skills to protect networks using the tools and techniques of an ethical hacker. The authors begin by exploring the concept of ethical hacking and its practitioners, explaining their importance in protecting corporate and government data from cyber attacks. The text then provides an in-depth guide to

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performing security testing against computer networks, covering current tools and penetration testing methodologies. Updated for today's cyber security environment, the Third Edition of this trusted text features new computer security resources, coverage of emerging vulnerabilities and innovative methods to protect networks, a new discussion of mobile security, and information on current federal and state computer crime laws, including penalties for illegal computer hacking. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Cyber Defense and Situational Awareness

Besides becoming more complex, destructive, and coercive, military cyber threats are now ubiquitous, and it is difficult to imagine a future conflict that would not have a cyber dimension. This book presents the proceedings of CYDEF2018, a collaborative workshop between NATO and Japan, held in Tokyo, Japan, from 3 – 6 April 2018 under the umbrella of the NATO Science for Peace and Security Programme. It is divided into 3 sections: policy and diplomacy; operations and technology; and training and education, and covers subjects ranging from dealing with an evolving cyber threat picture to maintaining a skilled cyber workforce. The book serves as a unique reference for some of the most pressing challenges related to the implementation of effective cyber defense policy at a technical and operational level,

and will be of interest to all those working in the field of cybersecurity.

Is Cyber Deterrence Possible?

This textbook offers an accessible introduction to the historical, technical, and strategic context of cyber conflict. The international relations, policy, doctrine, strategy, and operational issues associated with computer network attack, computer network exploitation, and computer network defense are collectively referred to as cyber warfare. This new textbook provides students with a comprehensive perspective on the technical, strategic, and policy issues associated with cyber conflict as well as an introduction to key state and non-state actors. Specifically, the book provides a comprehensive overview of these key issue areas: the historical emergence and evolution of cyber warfare, including the basic characteristics and methods of computer network attack, exploitation, and defense; a theoretical set of perspectives on conflict in the digital age from the point of view of international relations (IR) and the security studies field; the current national perspectives, policies, doctrines, and strategies relevant to cyber warfare; and an examination of key challenges in international law, norm development, and the potential impact of cyber warfare on future international conflicts. This book will be of much interest to students of cyber conflict and other forms of digital warfare, security studies, strategic studies, defense policy, and, most broadly, international relations.

At the Nexus of Cybersecurity and Public Policy

"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.

Network Defense: Securing and Troubleshooting Network Operating Systems

Cyberspace is a ubiquitous realm interconnecting every aspect of modern society, enabled by broadband networks and wireless signals around us, existing within local area networks in our schools, hospitals and businesses, and within the massive grids that power most countries. Securing cyberspace to ensure the continuation of growing economies and to protect a nation's way of life is a major concern for governments around the globe. This book contains papers presented at the NATO Advanced Research Workshop (ARW) entitled Best Practices and Innovative Approaches to Develop Cyber Security and Resiliency Policy Framework, held in Ohrid, the Former Yugoslav Republic of Macedonia (FYROM), in June 2013. The workshop aimed to develop a governing policy framework for nation states to enhance the cyber security of critical infrastructure. The 12 papers included herein cover a wide range of topics from web security and end-user training, to effective implementation of national cyber security

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policies and defensive countermeasures. The book will be of interest to cyber security professionals, practitioners, policy-makers, and to all those for whom cyber security is a critical and an important aspect of their work.

Managing Cisco Network Security

This book creates a framework for understanding and using cyberpower in support of national security. Cyberspace and cyberpower are now critical elements of international security. United States needs a national policy which employs cyberpower to support its national security interests.

Network Defense and Countermeasures

This book is the first publication to give a comprehensive, structured treatment to the important topic of situational awareness in cyber defense. It presents the subject in a logical, consistent, continuous discourse, covering key topics such as formation of cyber situational awareness, visualization and human factors, automated learning and inference, use of ontologies and metrics, predicting and assessing impact of cyber attacks, and achieving resilience of cyber and physical mission. Chapters include case studies, recent research results and practical insights described specifically for this book. Situational awareness is exceptionally prominent in the field of cyber defense. It involves science, technology and practice of perception, comprehension and projection of events and entities

in cyber space. Chapters discuss the difficulties of achieving cyber situational awareness – along with approaches to overcoming the difficulties - in the relatively young field of cyber defense where key phenomena are so unlike the more conventional physical world. Cyber Defense and Situational Awareness is designed as a reference for practitioners of cyber security and developers of technology solutions for cyber defenders. Advanced-level students and researchers focused on security of computer networks will also find this book a valuable resource.

Cyber Defense - Policies, Operations and Capacity Building

We depend on information and information technology (IT) to make many of our day-to-day tasks easier and more convenient. Computers play key roles in transportation, health care, banking, and energy. Businesses use IT for payroll and accounting, inventory and sales, and research and development. Modern military forces use weapons that are increasingly coordinated through computer-based networks. Cybersecurity is vital to protecting all of these functions. Cyberspace is vulnerable to a broad spectrum of hackers, criminals, terrorists, and state actors. Working in cyberspace, these malevolent actors can steal money, intellectual property, or classified information; impersonate law-abiding parties for their own purposes; damage important data; or deny the availability of normally accessible services. Cybersecurity issues arise because of three

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factors taken together - the presence of malevolent actors in cyberspace, societal reliance on IT for many important functions, and the presence of vulnerabilities in IT systems. What steps can policy makers take to protect our government, businesses, and the public from those would take advantage of system vulnerabilities? At the Nexus of Cybersecurity and Public Policy offers a wealth of information on practical measures, technical and nontechnical challenges, and potential policy responses. According to this report, cybersecurity is a never-ending battle; threats will evolve as adversaries adopt new tools and techniques to compromise security. Cybersecurity is therefore an ongoing process that needs to evolve as new threats are identified. At the Nexus of Cybersecurity and Public Policy is a call for action to make cybersecurity a public safety priority. For a number of years, the cybersecurity issue has received increasing public attention; however, most policy focus has been on the short-term costs of improving systems. In its explanation of the fundamentals of cybersecurity and the discussion of potential policy responses, this book will be a resource for policy makers, cybersecurity and IT professionals, and anyone who wants to understand threats to cyberspace.

Protect Your Windows Network

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

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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.

Strategic Cyber Defense

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

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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. Proactive vulnerability assessment is key to any organization's security posture. Constant assessment for potential weakness is required to maintain a security edge as new vulnerabilities in operating systems, software, hardware, and even human elements are identified and exploited every day. This book, the fifth in the series, is designed to provide the fundamental knowledge necessary to comprehend overall network security posture and the basic practices in vulnerability assessment. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Building an Intelligence-Led Security Program

The Network Defense Series from EC-Council | Press is comprised of 5 books designed to educate learners

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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. Understanding the threats to an organization's infrastructure as well as internal policies and mechanisms used to defend the infrastructure is an integral part to a Network Security Administrator's role. This book, the second in the series, is designed to cover a broad range of topics from a vendor-neutral perspective preparing the Administrator to implement and enforce policies that leverage not only the knowledge of how these threats can materialize, but also the mechanisms used prevent them. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Understanding Cyber Warfare

Advanced Persistent Security covers secure network

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design and implementation, including authentication, authorization, data and access integrity, network monitoring, and risk assessment. Using such recent high profile cases as Target, Sony, and Home Depot, the book explores information security risks, identifies the common threats organizations face, and presents tactics on how to prioritize the right countermeasures. The book discusses concepts such as malignant versus malicious threats, adversary mentality, motivation, the economics of cybercrime, the criminal infrastructure, dark webs, and the criminals organizations currently face. Contains practical and cost-effective recommendations for proactive and reactive protective measures Teaches users how to establish a viable threat intelligence program Focuses on how social networks present a double-edged sword against security programs

Network Defense and Countermeasures

End-to-End Network Security Defense-in-Depth Best practices for assessing and improving network defenses and responding to security incidents Omar Santos Information security practices have evolved from Internet perimeter protection to an in-depth defense model in which multiple countermeasures are layered throughout the infrastructure to address vulnerabilities and attacks. This is necessary due to increased attack frequency, diverse attack sophistication, and the rapid nature of attack velocity—all blurring the boundaries between the network and perimeter. End-to-End Network Security is designed to counter the new generation of complex

threats. Adopting this robust security strategy defends against highly sophisticated attacks that can occur at multiple locations in your network. The ultimate goal is to deploy a set of security capabilities that together create an intelligent, self-defending network that identifies attacks as they occur, generates alerts as appropriate, and then automatically responds. End-to-End Network Security provides you with a comprehensive look at the mechanisms to counter threats to each part of your network. The book starts with a review of network security technologies then covers the six-step methodology for incident response and best practices from proactive security frameworks. Later chapters cover wireless network security, IP telephony security, data center security, and IPv6 security. Finally, several case studies representing small, medium, and large enterprises provide detailed example configurations and implementation strategies of best practices learned in earlier chapters. Adopting the techniques and strategies outlined in this book enables you to prevent day-zero attacks, improve your overall security posture, build strong policies, and deploy intelligent, self-defending networks.

“Within these pages, you will find many practical tools, both process related and technology related, that you can draw on to improve your risk mitigation strategies.” —Bruce Murphy, Vice President, World Wide Security Practices, Cisco Omar Santos is a senior network security engineer at Cisco®. Omar has designed, implemented, and supported numerous secure networks for Fortune 500 companies and the U.S. government. Prior to his current role, he was a technical leader within the World Wide Security

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Practice and the Cisco Technical Assistance Center (TAC), where he taught, led, and mentored many engineers within both organizations. Guard your network with firewalls, VPNs, and intrusion prevention systems Control network access with AAA Enforce security policies with Cisco Network Admission Control (NAC) Learn how to perform risk and threat analysis Harden your network infrastructure, security policies, and procedures against security threats Identify and classify security threats Trace back attacks to their source Learn how to best react to security incidents Maintain visibility and control over your network with the SAVE framework Apply Defense-in-Depth principles to wireless networks, IP telephony networks, data centers, and IPv6 networks This security book is part of the Cisco Press® Networking Technology Series. Security titles from Cisco Press help networking professionals secure critical data and resources, prevent and mitigate network attacks, and build end-to-end self-defending networks. Category: Networking: Security Covers: Network security and incident response

Cyber Security and Resiliency Policy Framework

This peer reviewed work addresses how Businesses and Information Technology Security Professionals have spent a tremendous amount of time, money and resources to deploy a Defense in Depth approach to Information Technology Security. Yet successful attacks against RSA, HB Gary, Booz, Allen & Hamilton, the United States Military, and many others are

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examples of how Defense in Depth, as practiced, is unsustainable and the examples show that the enemy cannot be eliminated permanently. A closer look at how Defense in Depth evolved and how it was made to fit within Information Technology is important to help better understand the trends seen today.

Knowing that Defense in Depth, as practiced, actually renders the organization more vulnerable is vital to understanding that there must be a shift in attitudes and thinking to better address the risks faced in a more effective manner. Based on examples in this paper, a change is proposed in the current security and risk management models from the Defense in Depth model to Sustained Cyber-Siege Defense. The implications for this are significant in that there have to be transitions in thinking as well as how People, Process and Technology are implemented to better defend against a never ending siege by a limitless number and variety of attackers that cannot be eliminated. The suggestions proposed are not a drastic change in operations as much as how defenses area aligned, achieve vendor collaboration by applying market pressures and openly sharing information with each other as well as with federal and state agencies. By more accurately describing the problems, corporations and IT Security Professionals will be better equipped to address the challenges faced together.

Network Defense: Security Policy and Threats

With the increased dependence on digital and

internet technologies, cyber security has come to be regarded as a national security issue, and the number of countries with a published cyber security strategy continues to rise. But these national cyber security strategies often run the risk of failing to address all the cyber security requirements of the many institutions within a given country, and the complex nature of the stakeholders involved and the networks formed by them means that the problem requires an interdisciplinary approach. This book presents papers from the NATO Advanced Research Workshop (ARW) entitled "A Framework for a Military Cyber Defense Strategy", held in Norfolk, Virginia, USA, in April 2016. The workshop focused on key priority areas for cyber defense along with NATO's cyber defense policy implementation and brought together experts with an eclectic mix of backgrounds and specialties from a group of NATO member states and partner countries. The participants considered not only the technical implications of cyber security efforts, but also the legal, strategic, educational and organizational aspects, and the book reflects this wide view of the field and its intricacies, highlighting the complexity of cyber security and the many challenges it presents. This overview of cyber security offers state-of-the-art approaches from a multidisciplinary standpoint, and will be of interest to all those working in the field.

Ten Strategies of a World-Class Cybersecurity Operations Center

This 5-volume set (CCIS 214-CCIS 218) constitutes the refereed proceedings of the International Conference

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on Computer Science, Environment, Ecoinformatics, and Education, CSEE 2011, held in Wuhan, China, in July 2011. The 525 revised full papers presented in the five volumes were carefully reviewed and selected from numerous submissions. The papers are organized in topical sections on information security, intelligent information, neural networks, digital library, algorithms, automation, artificial intelligence, bioinformatics, computer networks, computational system, computer vision, computer modelling and simulation, control, databases, data mining, e-learning, e-commerce, e-business, image processing, information systems, knowledge management and knowledge discovering, multimedia and its application, management and information system, mobile computing, natural computing and computational intelligence, open and innovative education, pattern recognition, parallel and computing, robotics, wireless network, web application, other topics connecting with computer, environment and ecoinformatics, modeling and simulation, environment restoration, environment and energy, information and its influence on environment, computer and ecoinformatics, biotechnology and biofuel, as well as biosensors and bioreactor.

Advanced Persistent Security

A revolutionary, soups-to-nuts approach to network security from two of Microsoft's leading security experts.

Guide to Network Defense and

Countermeasures

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.

Cyber Security and Global Information Assurance: Threat Analysis and Response Solutions

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In order to conduct operations successfully and defend its capabilities against all warfighting domains, many have warned the Department of Defense (DoD) of the severity of the cyber threat and called for greater attention to defending against potential cyber attacks. For several years, many within and outside DoD have called for even greater attention to addressing threats to cyberspace. At the request of the Chief of Naval Operations, the National Research Council appointed an expert committee to review the U.S. Navy's cyber defense capabilities. The Department of the Navy has determined that the final report prepared by the committee is classified in its entirety under Executive Order 13526 and therefore cannot be made available to the public. A Review of U.S. Navy Cyber Defense Capabilities is the abbreviated report and provides background information on the full report and the committee that prepared it.

Advances in Computer Science, Environment, Ecoinformatics, and Education, Part IV

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

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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. A thorough understanding of network technologies and security fundamentals is required before designing any defensive measure to protect an organization's information. This book, the first in the series, is designed to provide the foundational knowledge to the potential Security Administrator from a vendor-neutral perspective covering everything from standard secure network topology, network media and transmission, classifications, and a complete view of network security equipment. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Hands-On Ethical Hacking and Network Defense

This Brief presents the overarching framework in which each nation is developing its own cyber-security policy, and the unique position adopted by France. Modern informational crises have penetrated most societal arenas, from healthcare, politics, economics to the conduct of business and welfare. Witnessing a convergence between information

warfare and the use of “fake news”, info-destabilization, cognitive warfare and cyberwar, this book brings a unique perspective on modern cyberwarfare campaigns, escalation and de-escalation of cyber-conflicts. As organizations are more and more dependent on information for the continuity and stability of their operations, they also become more vulnerable to cyber-destabilization, either genuine, or deliberate for the purpose of gaining geopolitical advantage, waging wars, conducting intellectual theft and a wide range of crimes. Subsequently, the regulation of cyberspace has grown into an international effort where public, private and sovereign interests often collide. By analyzing the particular case of France national strategy and capabilities, the authors investigate the difficulty of obtaining a global agreement on the regulation of cyber-warfare. A review of the motives for disagreement between parties suggests that the current regulation framework is not adapted to the current technological change in the cybersecurity domain. This book suggests a paradigm shift in handling and anchoring cyber-regulation into a new realm of behavioral and cognitive sciences, and their application to machine learning and cyber-defense.

National cyber security : framework manual

The practical guide to simulating, detecting, and responding to network attacks
Create step-by-step testing plans
Learn to perform social engineering and host reconnaissance
Evaluate session hijacking

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methods Exploit web server vulnerabilities Detect attempts to breach database security Use password crackers to obtain access information Circumvent Intrusion Prevention Systems (IPS) and firewall protections and disrupt the service of routers and switches Scan and penetrate wireless networks Understand the inner workings of Trojan Horses, viruses, and other backdoor applications Test UNIX, Microsoft, and Novell servers for vulnerabilities Learn the root cause of buffer overflows and how to prevent them Perform and prevent Denial of Service attacks Penetration testing is a growing field but there has yet to be a definitive resource that instructs ethical hackers on how to perform a penetration test with the ethics and responsibilities of testing in mind.

Penetration Testing and Network Defense offers detailed steps on how to emulate an outside attacker in order to assess the security of a network. Unlike other books on hacking, this book is specifically geared towards penetration testing. It includes important information about liability issues and ethics as well as procedures and documentation. Using popular open-source and commercial applications, the book shows you how to perform a penetration test on an organization's network, from creating a test plan to performing social engineering and host reconnaissance to performing simulated attacks on both wired and wireless networks. Penetration Testing and Network Defense also goes a step further than other books on hacking, as it demonstrates how to detect an attack on a live network. By detailing the method of an attack and how to spot an attack on your network, this book better prepares you to guard against hackers. You will learn how to configure,

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record, and thwart these attacks and how to harden a system to protect it against future internal and external attacks. Full of real-world examples and step-by-step procedures, this book is both an enjoyable read and full of practical advice that will help you assess network security and develop a plan for locking down sensitive data and company resources. "This book goes to great lengths to explain the various testing approaches that are used today and gives excellent insight into how a responsible penetration testing specialist executes his trade."
-Bruce Murphy, Vice President, World Wide Security Services, Cisco Systems

Cyber Warfare

This book discusses the evolution of security and privacy issues and brings related technological tools, techniques, and solutions into one single source. The book will take readers on a journey to understanding the security issues and possible solutions involving various threats, attacks, and defense mechanisms, which include IoT, cloud computing, Big Data, lightweight cryptography for blockchain, and data-intensive techniques, and how it can be applied to various applications for general and specific use. Graduate and postgraduate students, researchers, and those working in this industry will find this book easy to understand and use for security applications and privacy issues.

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THRILLER](#) [BIOGRAPHIES & HISTORY](#) [CHILDREN'S
YOUNG ADULT](#) [FANTASY](#) [HISTORICAL FICTION](#)
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