# Network Defense And Countermeasures

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The EC-Council | Press Ethical Hacking and Countermeasures Series is comprised of five books covering a broad base of topics in offensive network security, ethical hacking, and network defense and countermeasures. The content of this series is designed to immerse the reader into an interactive environment where they will be shown how to scan, test, hack and secure information systems. With the full series of books, the reader will gain in-depth knowledge and practical experience with essential security systems, and become prepared to succeed on the Certified Ethical Hacker, or C|EH, certification from EC-Council. This certification covers a plethora of offensive security topics ranging from how perimeter defenses work, to scanning and attacking simulated networks. A wide variety of tools, viruses, and malware is presented in this and the other four books, providing a complete understanding of the tactics and tools used by hackers. By gaining a thorough understanding of how hackers operate, an Ethical Hacker will be able to set up strong countermeasures and defensive systems to protect an organization's critical infrastructure and information. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

This volume provides the reader with a solid foundation in network security fundamentals. Whilst 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, packet filtering, and installing proxy servers, firewalls, and Virtual Private Networks. In addition, this text will prepare students to take the second exam, Network Defense and Countermeasures, for the Security Certified Network Professional (SCNP) Certification. The text assumes familiarity with the Internet and basic networking concepts such as TCP/IP, gateways, routers and Ethernet.

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.

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

Our world is increasingly driven by sophisticated networks of advanced computing technology, and the basic operation of everyday society is becoming increasingly vulnerable to those networks' shortcomings. The implementation and upkeep of a strong network defense is a substantial challenge, beset not only by economic disincentives, but also by an inherent logistical bias that grants advantage to attackers. Network Security Attacks and Countermeasures discusses the security and optimization of computer networks for use in a variety of disciplines and fields. Touching on such matters as mobile and VPN security, IP spoofing, and intrusion detection, this edited collection emboldens the efforts of researchers, academics, and network administrators working in both the public and private sectors. This edited compilation includes chapters covering topics such as attacks and countermeasures, mobile wireless networking, intrusion detection systems, next-generation firewalls, and more.

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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

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The Computer Forensic Series by EC-Council provides the knowledge and skills to identify, track, and prosecute the cyber-criminal. The series is comprised of four books covering a broad base of topics in Computer Hacking Forensic Investigation, designed to expose the reader to the process of detecting attacks and collecting evidence in a forensically sound manner with the intent to report crime and prevent future attacks. Learners are introduced to advanced techniques in computer investigation and analysis with interest in generating potential legal evidence. In full, this and the other three books provide preparation to identify evidence in computer related crime and abuse cases as well as track the intrusive hacker's path through a client system. The series and accompanying labs help prepare the security student or professional to profile an intruder's footprint and gather all necessary information and evidence to support prosecution in a court of law. Network Intrusions and Cybercrime includes a discussion of tools used in investigations as well as information on investigating network traffic, Web attacks, DoS attacks, corporate espionage and much more! Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

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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.

Provides a solid foundation in network security fundamentals with an emphasis on intrusion detection, and prepares the reader for the second exam, Network Defense and Countermeasures, in the Security Certified Network Professional (SCNP) Certification.

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 attacks are rapidly becoming one of the most prevalent issues in the world. As cyber crime continues to escalate, it is imperative to explore new approaches and technologies that help ensure the security of the online community. The Handbook of Research on Threat Detection and Countermeasures in Network Security presents the latest methodologies and trends in detecting and preventing network threats. Investigating the potential of current and emerging security technologies, this publication is an all-inclusive reference source for academicians, researchers, students, professionals, practitioners, network analysts, and technology specialists interested in the simulation and application of computer network protection.

Infrastructure networks supplying electricity, natural gas, water, and other commodities are at risk of disruption due to well-engineered and coordinated terrorist attacks. Countermeasures such as hardening targets, acquisition of spare critical components, and surveillance can be undertaken to detect and deter these attacks. Allocation of available countermeasures resources to sites or activities in a manner that maximizes their effectiveness is a challenging problem. This allocation must take into account the adversary's response after the countermeasure assets are in place and consequence mitigation measures the infrastructure operation can undertake after the attack. The adversary may simply switch strategies to avoid countermeasures when executing the attack. Stockpiling spares of critical energy infrastructure components has been identified as a key element of a grid infrastructure defense strategy in a recent National Academy of Sciences report [1]. Consider a scenario where an attacker attempts to interrupt the service of an electrical network by disabling some of its facilities while a defender wants to prevent or minimize the effectiveness of any attack. The interaction between the attacker and the defender can be described in three stages: (1) The defender deploys countermeasures, (2) The attacker disrupts the network, and (3) The defender responds to the attack by rerouting power to maintain service while trying to repair damage. In the first stage, the defender considers all possible attack scenarios and deploys countermeasures to defend against the worst scenarios. Countermeasures can include hardening targets, acquiring spare critical components, and installing surveillance devices. In

the second stage, the attacker, with full knowledge of the deployed countermeasures, attempts to disable some nodes or links in the network to inflict the greatest loss on the defender. In the third stage, the defender re-dispatches power and restores disabled nodes or links to minimize the loss. The loss can be measured in costs, including the costs of using more expensive generators and the economic losses that can be attributed to loss of load. The defender's goal is to minimize the loss while the attacker wants to maximize it. Assuming some level of budget constraint, each side can only defend or attack a limited number of network elements. When an element is attacked, it is assumed that it will be totally disabled. It is assumed that when an element is defended it cannot be disabled, which may mean that it will be restored in a very short time after being attacked. The rest of the paper is organized as follows. Section 2 will briefly review literature related to multilevel programming and network defense. Section 3 presents a mathematical formulation of the electrical network defense problem. Section 4 describes the solution algorithms. Section 5 discusses computational results. Finally, Sec. 6 explores future research directions.

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