Internet Defense

M. Hathaway,IOS Press

Internet Denial of Service David Dittrich,Peter Reiher,Sven Dietrich,2004-12-30 Suddenly your Web server becomes unavailable. When you investigate, you realize that a flood of packets is surging into your network. You have just become one of the hundreds of thousands of victims of a denial-of-service attack, a pervasive and growing threat to the Internet. What do you do? Internet Denial of Service sheds light on a complex and fascinating form of computer attack that impacts the confidentiality, integrity, and availability of millions of computers worldwide. It tells the network administrator, corporate CTO, incident responder, and student how DDoS attacks are prepared and executed, how to think about DDoS, and how to arrange computer and network defenses. It also provides a suite of actions that can be taken before, during, and after an attack. Inside, you'll find comprehensive information on the following topics How denial-of-service attacks are waged How to improve your network's resilience to denial-of-service attacks What to do when you are involved in a denial-of-service attack The laws that apply to these attacks and their implications How often denial-of-service attacks occur, how strong they are, and the kinds of damage they can cause Real examples of denial-of-service attacks as experienced by the attacker, victim, and unwitting accomplices The authors' extensive experience in handling denial-of-service attacks and researching defense approaches is laid out clearly in practical, detailed terms.
   Vulnerability Analysis and Defense for the

Internet Abhishek Singh,2008-01-24 Vulnerability analysis, also known as vulnerability assessment, is a process that defines, identifies, and classifies the security holes, or vulnerabilities, in a computer, network, or application. In addition, vulnerability analysis can forecast the effectiveness of proposed countermeasures and evaluate their actual effectiveness after they are put into use. Vulnerability Analysis and Defense for the Internet provides packet captures, flow charts and pseudo code, which enable a user to identify if an application/protocol is vulnerable. This edited volume also includes case studies that discuss the latest exploits.

   Best Practices in Computer Network Defense: Incident Detection and Response M. Hathaway,IOS Press,2014-01-21 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.

  Aggressive Network Self-Defense Neil R. Wyler,2005-04-12 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.

  Internet Surveillance and How to Protect Your

<u>Privacy</u> Kathy Furgang,2016-12-15 Today, whether it's banks, governments, schools, or businesses, they all store data digitally. Keeping our personal details off the internet is nearly impossible. While it's difficult to avoid having some personal information online, readers can take steps to secure it from prying eyes. This guide provides common-sense tips about how to avoid online theft and the mining of data by advertisers and others. In easy-to-follow steps, readers will also learn how to safeguard their computers and other digital devices. With this guide, readers can keep their private info private.

  Network Perimeter Security Cliff Riggs,2003-10-27 Today's network administrators are fully aware of the importance of security; unfortunately, they have neither the time nor the resources to be full-time InfoSec experts. Oftentimes quick, temporary security fixes are the most that can be expected. The majority of security books on the market are also of little help. They are either targeted toward

  Situational Awareness in Computer Network Defense: Principles, Methods and Applications Onwubiko, Cyril,2012-01-31 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.

  @WAR Shane Harris,2014 An investigation into how the Pentagon, NSA, and other government agencies are uniting with corporations to fight in cyberspace, the next great theater of war.

  Defense and Detection Strategies Against

Internet Worms Jose Nazario,2004 Annotation Along with the enormous growth of the Internet, threats to computers are increasing in severity. This is the first book focused exclusively on Internet worms, offering computer and network security professionals solid worm detection and defense strategies for their work in the field.

   Crimeware Markus Jakobsson,Zulfikar Ramzan,2008-04-06 "This book is the most current and comprehensive analysis of the state of Internet security threats right now. The review of current issues and predictions about problems years away are critical for truly understanding crimeware. Every concerned person should have a copy and use it for reference." —Garth Bruen, Project KnujOn Designer There's a new breed of online predators—serious criminals intent on stealing big bucks and top-secret information—and their weapons of choice are a dangerous array of tools called "crimeware." With an ever-growing number of companies, organizations, and individuals turning to the Internet to get things done, there's an urgent need to understand and prevent these online threats. Crimeware: Understanding New Attacks and Defenses will help security professionals, technical managers, students, and researchers understand and prevent specific crimeware threats. This book guides you through the essential security principles, techniques, and countermeasures to keep you one step ahead of the criminals, regardless of evolving technology and tactics. Security experts Markus Jakobsson and Zulfikar Ramzan have brought together chapter contributors who are among the

best and the brightest in the security industry.
Together, they will help you understand how
crimeware works, how to identify it, and how to
prevent future attacks before your company's
valuable information falls into the wrong hands.
In self-contained chapters that go into varying
degrees of depth, the book provides a thorough
overview of crimeware, including not only concepts
prevalent in the wild, but also ideas that so far
have only been seen inside the laboratory. With
this book, you will Understand current and
emerging security threats including rootkits, bot
networks, spyware, adware, and click fraud
Recognize the interaction between various
crimeware threats Gain awareness of the social,
political, and legal implications of these threats
Learn valuable countermeasures to stop crimeware
in its tracks, now and in the future Acquire
insight into future security trends and threats,
and create an effective defense plan With
contributions by Gary McGraw, Andrew Tanenbaum,
Dave Cole, Oliver Friedrichs, Peter Ferrie, and
others.

   Digital Defense Joseph Pelton,Indu B.
Singh,2015-10-16 Drs. Pelton and Singh warn of the
increasing risks of cybercrime and lay out a
series of commonsense precautions to guard against
individual security breaches. This guide clearly
explains the technology at issue, the points of
weakness and the best ways to proactively monitor
and maintain the integrity of individual networks.
Covering both the most common personal attacks of
identity fraud, phishing, malware and breach of
access as well as the larger threats against

companies and governmental systems, the authors explain the vulnerabilities of the internet age. As more and more of life's transactions take place online, the average computer user and society at large have a lot to lose. All users can take steps to secure their information. Cybercrime is so subtle and hidden, people can ignore the threat until it is too late. Yet today about every three seconds a person is hit by some form of cyber attack out of the blue. Locking the "cyber-barn door" after a hacker has struck is way too late. Cyber security, cyber crime and cyber terrorism may seem to be intellectual crimes that don't really touch the average person, but the threat is real. Demystifying them is the most important step and this accessible explanation covers all the bases.

   Proactive and Dynamic Network Defense Cliff Wang,Zhuo Lu,2019-05-22 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 are research 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.

  Defending an Open, Global, Secure, and Resilient Internet Council on Foreign Relations,2013-06-01 The CFR-sponsored Independent Task Force report, Defending an Open, Global, Secure, and Resilient Internet, finds that as more people and services become interconnected and dependent on the Internet, societies are becoming increasingly vulnerable to cyberattacks. To support security, innovation, growth, and the free flow of information, the Task Force recommends that the United States and its partners work to build a cyber alliance, make the free flow of information a part of all future trade agreements, and articulate an inclusive and robust vision of Internet governance.

  The Strategist and the Web James Kievit,Steven Metz,1996 For strategic analysts, the ability to collect information rapidly and to evaluate its relevance and validity is a crucial skill. By allowing the nearly instantaneous transfer of information, computers are now helping to assure it is timely. The Internet offers access to millions of documents and files on a vast range of topics. But to make maximum use of it, researchers must understand its strengths and weaknesses. Analysts trained in library, archive, and word-of-mouth research must learn where to look for salient electronic information. The Strategist and the Web provides an Internet Primer--an introductory road map of the 'net explaining its most important features: the World-Wide Web, news

groups, and electronic mail (email). Then it examines numerous Internet sources. From these it identifies both sites of current value to a strategic analyst, and those with the potential to become important resources after further development. Although sometimes valuable, the Internet today is not a solution to the analyst's need for relevant, timely information. New resources and methods appear and others fade away on a daily basis. Within a few years, though, presence on the web is likely to stabilize somewhat. Once that happens, an analyst's collection of Internet bookmarks will be nearly as valuable as a rolodex of personal contacts is now. The astute analyst will prepare for this. By exploring the web today and developing effective methods for finding and using electronic information, he or she will be ready when the Internet finally does make the leap from luxury to necessity. To help make this exploration easier, Appendix A provides the URLs (electronic addresses) for all the sites reviewed in the essay. Alternatively, look for SSI's Strategic Hotlist on the Strategic Outreach Program page at: http://carlisle-www.army.mil/usassi/ssioutp/.

  Guide to Network Defense and Countermeasures Randy Weaver,2013-01-01 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.

  Strategic Cyber Defense A.V. Gheorghe,U. Tatar,Y. Gokce,2017-07-20 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.

  Penetration Testing and Network Defense Andrew Whitaker,Daniel P. Newman,2006 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 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, 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(R)

  Proceedings of the 3rd European Conference on Computer Network Defense Vasilios Siris,Sotiris Ioannidis,Kostas Anagnostakis,Panagiotis Trimintzios,2010-06-09 The European Conference on Computer and Network Defense draws contributions and participation both from academia and industry, and addresses security from multiple perspectives, including state-of-the-art research in computer network security, intrusion detection, denial-of-service, privacy protection, security policies, and incident response & management. The conference is organized jointly by the Institute of Computer Science of the Foundation for Research and Technology – Hellas (FORTH) and the European Network and Information Security Agency (ENISA).

  Cyber Reconnaissance, Surveillance and Defense Robert Shimonski,2014-10-17 At a time when online surveillance and cybercrime techniques are widespread, and are being used by governments, corporations, and individuals, Cyber Reconnaissance, Surveillance and Defense gives you a practical resource that explains how these activities are being carried out and shows how to defend against them. Expert author Rob Shimonski shows you how to carry out advanced IT surveillance and reconnaissance, describes when and how these techniques are used, and provides a full legal background for each threat. To help you understand how to defend against these attacks, this book describes many new and leading-edge surveillance, information-gathering, and personal exploitation threats taking place today, including

Web cam breaches, home privacy systems, physical and logical tracking, phone tracking, picture metadata, physical device tracking and geo-location, social media security, identity theft, social engineering, sniffing, and more. Understand how IT surveillance and reconnaissance techniques are being used to track and monitor activities of individuals and organizations Find out about the legal basis of these attacks and threats — what is legal and what is not — and how to defend against any type of surveillance Learn how to thwart monitoring and surveillance threats with practical tools and techniques Real-world examples teach using key concepts from cases in the news around the world

  End-to-End Network Security Omar Santos,2007-08-24 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 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

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