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Emerging Trends in ICT Security
Framework for Improving Critical Infrastructure Cybersecurity
Developing Windows-Based and Web-Enabled Information Systems
DDoS Attacks
Dr. Tom Shinder's Configuring ISA Server 2004
Threat Hunting with Elastic Stack
Effective Model-Based Systems Engineering
Practical Intrusion Analysis

ESTRADA CHAVEZ

The Tao of Network Security Monitoring Elsevier
Intrusion detection is the process of monitoring the events occurring in a computer system or network & analyzing them for signs of possible incidents, which are viol. or imminent threats of viol. of computer security policies, acceptable use policies, or standard security practices. Intrusion prevention is the process of performing intrusion detection to stop detected possible incidents. Intrusion detection & prevention systems (IDPS) record info. related to observed events, notify security admin. of important events, & produce reports. This pub. provides recommend. for designing, implementing, configuring, securing, monitoring, & maintaining IDPS¿s. Discusses 4 types of IDPS¿s: Network-Based; Wireless; Network Behavior Analysis; & Host-Based.
Guide to Intrusion Detection and Prevention Systems No Starch Press
The InfoSec Handbook offers the reader an organized layout of information that is easily read and understood. Allowing beginners to enter the field and understand the key concepts and ideas, while still keeping the experienced readers updated on topics and concepts. It is intended mainly for beginners to the field of information security, written in a way that makes it easy for them to understand the detailed content of the book. The book offers a practical and simple view of the security practices while still offering somewhat technical and detailed information relating to security. It helps the reader build a strong foundation of information, allowing them to move forward from the book with a larger knowledge base. Security is a constantly growing concern that everyone must deal with. Whether it’s an average computer user or a highly skilled computer user, they are always confronted with different security risks. These risks range in danger and should always be dealt with accordingly. Unfortunately, not everyone is aware of the dangers or how to prevent them and this is where most of the issues arise in information technology (IT). When computer users do not take security into account many issues can arise from that like system compromises or loss of data and information. This is an obvious issue that is present with all computer users. This book is intended to educate the average and experienced user of what kinds of different security practices and standards exist. It will also cover how to manage security software and updates in order to be as protected as possible from all of the threats that they face.
The InfoSec Handbook CRC Press
Cyber-Security Threats, Actors, and Dynamic Mitigation provides both a technical and state-of-the-art perspective as well as a systematic overview of the recent advances in different facets of cyber-security. It covers the methodologies for modeling attack strategies used by threat actors targeting devices, systems, and networks such as smart homes, critical infrastructures, and industrial IoT. With a comprehensive review of the threat landscape, the book explores both common and sophisticated threats to systems and networks. Tools and

methodologies are presented for precise modeling of attack strategies, which can be used both proactively in risk management and reactively in intrusion prevention and response systems. Several contemporary techniques are offered ranging from reconnaissance and penetration testing to malware detection, analysis, and mitigation. Advanced machine learning-based approaches are also included in the area of anomaly-based detection, that are capable of detecting attacks relying on zero-day vulnerabilities and exploits. Academics, researchers, and professionals in cyber-security who want an in-depth look at the contemporary aspects of the field will find this book of interest. Those wanting a unique reference for various cyber-security threats and how they are detected, analyzed, and mitigated will reach for this book often.

Information Security for Global Information Infrastructures Pearson Education

Emerging Trends in ICT Security, an edited volume, discusses the foundations and theoretical aspects of ICT security; covers trends, analytics, assessments and frameworks necessary for performance analysis and evaluation; and gives you the state-of-the-art knowledge needed for successful deployment of security solutions in many environments. Application scenarios provide you with an insider's look at security solutions deployed in real-life scenarios, including but limited to smart devices, biometrics, social media, big data security, and crowd sourcing. - Provides a multidisciplinary approach to security with coverage of communication systems, information mining, policy making, and management infrastructures - Discusses deployment of numerous security solutions, including, cyber defense techniques and defense against malicious code and mobile attacks - Addresses application of security solutions in real-life scenarios in several environments, such as social media, big data and crowd sourcing

Managing Cisco Network Security Springer

"The book you are about to read will arm you with the knowledge you need to defend your network from attackers—both the obvious and the not so obvious.... If you are new to network security, don't put this book back on the shelf! This is a great book for beginners and I wish I had access to it many years ago. If you've learned the basics of TCP/IP protocols and run an open source or commercial IDS, you may be asking 'What's next?' If so, this book is for you." —Ron Gula, founder and CTO, Tenable Network Security, from the Foreword "Richard Bejtlich has a good perspective on Internet security—one that is orderly and practical at the same time. He keeps readers grounded and addresses the fundamentals in an accessible way." —Marcus Ranum, TruSecure "This book is not about security or network monitoring: It's about both, and in reality these are two aspects of the same problem. You can easily find people who are security experts or network monitors, but this book explains how to master both topics." —Luca Deri, ntop.org "This book will enable security professionals of all skill sets to improve their understanding of what it takes to set up, maintain, and utilize a successful network intrusion detection strategy." —Kirby Kuehl, Cisco Systems Every network can be compromised. There are too many systems, offering too many services, running too many flawed applications. No amount of careful

coding, patch management, or access control can keep out every attacker. If prevention eventually fails, how do you prepare for the intrusions that will eventually happen? Network security monitoring (NSM) equips security staff to deal with the inevitable consequences of too few resources and too many responsibilities. NSM collects the data needed to generate better assessment, detection, and response processes—resulting in decreased impact from unauthorized activities. In The Tao of Network Security Monitoring , Richard Bejtlich explores the products, people, and processes that implement the NSM model. By focusing on case studies and the application of open source tools, he helps you gain hands-on knowledge of how to better defend networks and how to mitigate damage from security incidents. Inside, you will find in-depth information on the following areas. The NSM operational framework and deployment considerations. How to use a variety of open-source tools—including Sguil, Argus, and Ethereal—to mine network traffic for full content, session, statistical, and alert data. Best practices for conducting emergency NSM in an incident response scenario, evaluating monitoring vendors, and deploying an NSM architecture. Developing and applying knowledge of weapons, tactics, telecommunications, system administration, scripting, and programming for NSM. The best tools for generating arbitrary packets, exploiting flaws, manipulating traffic, and conducting reconnaissance. Whether you are new to network intrusion detection and incident response, or a computer-security veteran, this book will enable you to quickly develop and apply the skills needed to detect, prevent, and respond to new and emerging threats.

Data Privacy Management and Autonomous Spontaneous Security IGI Global

Advance your career as an information security professional by turning theory into robust solutions to secure your organization Key FeaturesConvert the theory of your security certifications into actionable changes to secure your organizationDiscover how to structure policies and procedures in order to operationalize your organization's information security strategyLearn how to achieve security goals in your organization and reduce software riskBook Description Information security and risk management best practices enable professionals to plan, implement, measure, and test their organization's systems and ensure that they're adequately protected against threats. The book starts by helping you to understand the core principles of information security, why risk management is important, and how you can drive information security governance. You'll then explore methods for implementing security controls to achieve the organization's information security goals. As you make progress, you'll get to grips with design principles that can be utilized along with methods to assess and mitigate architectural vulnerabilities. The book will also help you to discover best practices for designing secure network architectures and controlling and managing third-party identity services. Finally, you will learn about designing and managing security testing processes, along with ways in which you can improve software security. By the end of this infosec book, you'll have learned how to make your organization less vulnerable to threats and reduce the likelihood and impact of

exploitation. As a result, you will be able to make an impactful change in your organization toward a higher level of information security. What you will learnUnderstand and operationalize risk management concepts and important security operations activitiesDiscover how to identify, classify, and maintain information and assetsAssess and mitigate vulnerabilities in information systemsDetermine how security control testing will be undertakenIncorporate security into the SDLC (software development life cycle)Improve the security of developed software and mitigate the risks of using unsafe softwareWho this book is for If you are looking to begin your career in an information security role, then this book is for you. Anyone who is studying to achieve industry-standard certification such as the CISSP or CISM, but looking for a way to convert concepts (and the seemingly endless number of acronyms) from theory into practice and start making a difference in your day-to-day work will find this book useful.

Transforming Information Security

Syngress

Learn advanced threat analysis techniques in practice by implementing Elastic Stack security features Key FeaturesGet started with Elastic Security configuration and featuresLeverage Elastic Stack features to provide optimal protection against threatsDiscover tips, tricks, and best practices to enhance the security of your environmentBook Description Threat Hunting with Elastic Stack will show you how to make the best use of Elastic Security to provide optimal protection against cyber threats. With this book, security practitioners working with Kibana will be able to put their knowledge to work and detect malicious adversary activity within their contested network. You'll take a hands-on approach to learning the implementation and methodologies that will have you up and running in no time. Starting with the foundational parts of the Elastic Stack, you'll explore analytical models and how they support security response and finally leverage Elastic technology to perform defensive cyber operations. You'll then cover threat intelligence analytical models, threat hunting concepts and methodologies, and how to leverage them in cyber operations. After you've mastered the basics, you'll apply the knowledge you've gained to build and configure your own Elastic Stack, upload data, and explore that data directly as well as by using the built-in tools in the Kibana app to hunt for nefarious activities. By the end of this book, you'll be able to build an Elastic Stack for self-training or to monitor your own network and/or assets and use Kibana to monitor and hunt for adversaries within your network. What you will learnExplore cyber threat intelligence analytical models and hunting methodologiesBuild and configure Elastic Stack for cyber threat huntingLeverage the Elastic endpoint and Beats for data collectionPerform security data analysis using the Kibana Discover, Visualize, and Dashboard appsExecute hunting and response operations using the Kibana Security appUse Elastic Common Schema to ensure data uniformity across organizationsWho this book is for Security analysts, cybersecurity enthusiasts, information systems security staff, or anyone who works with the Elastic Stack for security monitoring, incident response, intelligence analysis, or threat hunting will find this book useful. Basic working knowledge of IT security operations and network and

endpoint systems is necessary to get started.

Online Banking Security Measures and Data Protection Packt Publishing Ltd

Dr. Tom and Debra Shinder have become synonymous with Microsoft's flagship firewall product ISA Server, as a result of Tom's prominent role as a member of the beta development team, and Tom and Deb's featured placement on both Microsoft's ISA Server Web site and ISAserver.org. Tom and Deb's book on the first release of the product "Configuring ISA Server 2000" dominated the ISA Server 2000 book market having sold over 40,000 copies worldwide, and the ISA Server community is eagerly awaiting Tom and Deb's book on ISA Server 2004, which is the dramatically upgraded new release from Microsoft.Dr. Tom and Debra Shinder have become synonymous with Microsoft's flagship firewall product ISA Server, as a result of Tom's prominent role as a member of the beta development team, and Tom and Deb's featured placement on both Microsoft's ISA Server Web site and ISAserver.org. Tom and Deb's book on the first release of the product "Configuring ISA Server 2000" dominated the ISA Server 2000 book market having sold over 40,000 copies worldwide, and the ISA Server community is eagerly awaiting Tom and Deb's book on ISA Server 2004, which is the dramatically upgraded new release from Microsoft. This book will be featured prominently on the ISAserver.org home page as well as referenced on Microsoft TechNet and ISA Server Web pages. Tom and Deb's unparalleled technical expertise combined with prime on-line marketing opportunities will make this the #1 book again in the ISA Server market.* This book will provide readers with unparalleled information on installing, confiuguring, and troubleshooting ISA Server 2004 by teaching readers to: * Deploy ISA Server 2004 in small businesses and large organizations.* Learn how to configure complex DMZ configurations using ISA Server 2004's new network awareness features and built-in multinetworking capabilities.* Learn how to take advantage of ISA Server 2004's new VPN capabilities!

Internet Denial of Service Elsevier

Since 2001, the CERT® Insider Threat Center at Carnegie Mellon University’s Software Engineering Institute (SEI) has collected and analyzed information about more than seven hundred insider cyber crimes, ranging from national security espionage to theft of trade secrets. The CERT® Guide to Insider Threats describes CERT’s findings in practical terms, offering specific guidance and countermeasures that can be immediately applied by executives, managers, security officers, and operational staff within any private, government, or military organization. The authors systematically address attacks by all types of malicious insiders, including current and former employees, contractors, business partners, outsourcers, and even cloud-computing vendors. They cover all major types of insider cyber crime: IT sabotage, intellectual property theft, and fraud. For each, they present a crime profile describing how the crime tends to evolve over time, as well as motivations, attack methods, organizational issues, and precursor warnings that could have helped the organization prevent the incident or detect it earlier. Beyond identifying crucial patterns of suspicious behavior, the authors present concrete defensive measures for protecting both

systems and data. This book also conveys the big picture of the insider threat problem over time: the complex interactions and unintended consequences of existing policies, practices, technology, insider mindsets, and organizational culture. Most important, it offers actionable recommendations for the entire organization, from executive management and board members to IT, data owners, HR, and legal departments. With this book, you will find out how to Identify hidden signs of insider IT sabotage, theft of sensitive information, and fraud Recognize insider threats throughout the software development life cycle Use advanced threat controls to resist attacks by both technical and nontechnical insiders Increase the effectiveness of existing technical security tools by enhancing rules, configurations, and associated business processes Prepare for unusual insider attacks, including attacks linked to organized crime or the Internet underground By implementing this book's security practices, you will be incorporating protection mechanisms designed to resist the vast majority of malicious insider attacks.

Penetration Testing and Network Defense Pearson Education

Zusammenfassung: Digital technology is increasingly used in the healthcare sector, and healthcare organizations handle sensitive and confidential information that needs to be kept secure and protected. Therefore, the importance of cybersecurity in healthcare cannot be overstated. Cyber threats can compromise patient data, disrupt healthcare services, and put personal safety at risk. This book provides an understanding of cybersecurity in healthcare, which is crucial for protecting personal information, ensuring compliance with regulations, maintaining patient trust, and preventing cyber-attacks. Before defining cybersecurity in healthcare, the authors introduce the healthcare environment and cybersecurity basics to readers. They then emphasize the importance of data protection and privacy, software, and personal cybersecurity. Also, they highlight the importance of educating staff about cybersecurity. The discussion continues with data and information security in healthcare, including data threats and vulnerabilities, the difference between data protection and privacy, and how to protect data. Afterward, they focus on the software system frameworks and types of infra-security and app security in healthcare. A key goal of this book is to provide readers with an understanding of how to detect and prevent cyber-attacks in the healthcare sector and how to respond to and recover from them. Moreover, it gives them an insight into cybersecurity vulnerabilities in healthcare and how they are mitigated. A chapter on cybersecurity ethics and healthcare data governance frameworks is also included in the book. The last chapter explores the challenges healthcare organizations face in maintaining security compliance and security practice guidelines that exist. By understanding the risks and challenges of cybersecurity in healthcare, healthcare providers and organizations can better protect sensitive and confidential data and ensure the safety and privacy of those they serve

Computer Incident Response and Forensics Team Management Apress

The purpose of this publication is to assist member states in developing

comprehensive contingency plans for computer security incidents with the potential to impact nuclear security and/or nuclear safety. It provides an outline and recommendations for establishing a computer security incident response capability as part of a computer security programme.

Snort Newnes

Many professionals and students in engineering, science, business, and other application fields need to develop Windows-based and web-enabled information systems to store and use data for decision support, without help from professional programmers. However, few books are available to train professionals and students who are not professional progra

Cybersecurity Attacks – Red Team Strategies Emerald Group Publishing

Cisco Systems, Inc. is the worldwide leader in networking for the Internet, and its Intrusion Detection Systems line of products is making in roads in the IDS market segment, with major upgrades having happened in February of 2003. Cisco Security Professional's Guide to Secure Intrusion Detection Systems is a comprehensive, up-to-date guide to the hardware and software that comprise the Cisco IDS. Cisco Security Professional's Guide to Secure Intrusion Detection Systems does more than show network engineers how to set up and manage this line of best selling products ... it walks them step by step through all the objectives of the Cisco Secure Intrusion Detection System course (and corresponding exam) that network engineers must pass on their way to achieving sought-after CCSP certification. - Offers complete coverage of the Cisco Secure Intrusion Detection Systems Exam (CSIDS 9E0-100) for CCSPs

Research Methods for Cyber Security Addison-Wesley

Network Intrusion Detection and Prevention: Concepts and Techniques provides detailed and concise information on different types of attacks, theoretical foundation of attack detection approaches, implementation, data collection, evaluation, and intrusion response. Additionally, it provides an overview of some of the commercially/publicly available intrusion detection and response systems. On the topic of intrusion detection system it is impossible to include everything there is to say on all subjects. However, we have tried to cover the most important and common ones. Network Intrusion Detection and Prevention: Concepts and Techniques is designed for researchers and practitioners in industry. This book is suitable for advanced-level students in computer science as a reference book as well.

The CERT Guide to Insider Threats Elsevier

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.

Computer Security Incident Response Planning at Nuclear Facilities National Academies Press

This fully integrated book, CD, and Web toolkit covers everything from packet inspection to optimizing Snort for speed to using its most advanced features to defend even the largest and most congested enterprise networks.

Cybersecurity for Hospitals and Healthcare Facilities Springer Science & Business Media

Technological innovations in the banking sector have provided numerous benefits to customers and banks alike; however, the use of e-banking increases vulnerability to system attacks and threats, making effective security measures more vital than ever. Online Banking Security Measures and Data Protection is an authoritative reference source for the latest scholarly material on the challenges presented by the implementation of e-banking in contemporary financial systems. Presenting emerging techniques to secure these systems against potential threats and highlighting theoretical foundations and real-world case studies, this book is ideally designed for professionals, practitioners, upper-level students, and technology developers interested in the latest developments in e-banking security.

Incident Response in the Age of Cloud Springer Nature

The Framework focuses on using business drivers to guide cybersecurity activities and considering cybersecurity risks as part of the organization’s risk management processes. The Framework consists of three parts: the Framework Core, the Implementation Tiers, and the Framework Profiles. The Framework Core is a set of cybersecurity activities, outcomes, and informative references that are common across sectors and critical infrastructure. Elements of the Core provide detailed guidance for developing individual organizational Profiles. Through use of Profiles, the Framework will help an organization to align and prioritize its cybersecurity activities with its business/mission requirements, risk tolerances, and resources. The Tiers provide a mechanism for organizations to view and understand the characteristics of their approach to managing cybersecurity risk, which will help in prioritizing and achieving cybersecurity objectives.

Computers at Risk Springer

Computer Incident Response and Forensics Team Management provides security professionals with a complete handbook of computer incident response from the perspective of forensics team management. This unique approach teaches readers the concepts and principles they need to conduct a successful incident response investigation, ensuring that proven policies and procedures are established and followed by all team members.

Leighton R. Johnson III describes the processes within an incident response event and shows the crucial importance of skillful forensics team management, including when and where the transition to forensics investigation should occur during an incident response event. The book also provides discussions of key incident response components. - Provides readers with a complete handbook on computer incident response from the perspective of forensics team management - Identify the key steps to completing a successful computer incident response investigation - Defines the qualities necessary to become a successful forensics investigation team member, as well as the interpersonal relationship skills necessary for successful incident response and forensics investigation teams

Extrusion Detection Elsevier

System administrators need to stay ahead of new security vulnerabilities that leave their networks exposed every day. A firewall and an intrusion detection systems (IDS) are two important weapons in that fight, enabling you to proactively deny access and monitor network traffic for signs of an attack. Linux Firewalls discusses the technical details of the iptables firewall and the Netfilter framework that are built into the Linux kernel, and it explains how they provide strong filtering, Network Address Translation (NAT), state tracking, and application layer inspection capabilities that rival many commercial tools. You'll learn how to deploy iptables as an IDS with psad and fwsnort and how to build a strong, passive authentication layer around iptables with fwknop. Concrete examples illustrate concepts such as firewall log analysis and policies, passive network authentication and authorization, exploit packet traces, Snort ruleset emulation, and more with coverage of these topics: –Passive network authentication and OS fingerprinting –iptables log analysis and policies –Application layer attack detection with the iptables string match extension –Building an iptables ruleset that emulates a Snort ruleset –Port knocking vs. Single Packet Authorization (SPA) –Tools for visualizing iptables logs Perl and C code snippets offer practical examples that will help you to maximize your deployment of Linux firewalls. If you're responsible for keeping a network secure, you'll find Linux Firewalls invaluable in your attempt to understand attacks and use iptables—along with psad and fwsnort—to detect and even prevent compromises.

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