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MELINA PEREZ

Learning Network Forensics "O'Reilly Media, Inc."
PART OF THE JONES & BARTLETT LEARNING INFORMATION SYSTEMS SECURITY & ASSURANCE SERIES Revised and updated with the latest information from this fast-paced field, Fundamentals of Information System Security, Second Edition provides a comprehensive overview of the essential concepts readers must know as they pursue careers in information systems security. The text opens with a discussion of the new risks, threats, and vulnerabilities associated with the transformation to a digital world, including a look at how business, government, and individuals operate today. Part 2 is adapted from the Official (ISC)2 SSCP Certified Body of Knowledge and presents a high-level overview of each of the seven domains within the System Security Certified Practitioner certification. The book closes with a resource for readers who desire additional material on information security standards, education, professional certifications, and compliance laws. With its practical, conversational writing style and step-by-step examples, this text is a must-have resource for those entering the world of information systems security. New to the Second Edition: - New material on cloud computing, risk analysis, IP mobility, OMNIBus, and Agile Software Development. - Includes the most recent updates in Information Systems Security laws, certificates, standards, amendments, and the proposed Federal Information Security Amendments Act of 2013 and HITECH Act. - Provides new cases and examples pulled from real-world scenarios. - Updated data, tables, and sidebars provide the most current information in the field.
The Tao of Network Security Monitoring Rob Botwright
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The Official CompTIA Security+ Self-Paced Study Guide (Exam SY0-601) Packt Publishing Ltd
The Art of Network Architecture Business-Driven Design The business-centered, business-driven guide to architecting and evolving networks The Art of Network Architecture is the first book that places business needs and capabilities at the center of the process of architecting and evolving networks. Two leading enterprise network architects help you craft solutions that are fully aligned with business strategy, smoothly accommodate change, and maximize future flexibility. Russ White and Denise Donohue guide network designers in asking and answering the crucial questions that lead to elegant, high-value solutions. Carefully blending business and technical concerns, they show how to optimize all network interactions involving flow, time, and people. The authors review important links between business requirements and network design, helping you capture the information you need to design effectively. They introduce today's most useful models and frameworks, fully addressing modularity, resilience, security, and management. Next, they drill down into network structure and topology, covering virtualization, overlays, modern routing choices, and highly complex network environments. In the final section, the authors integrate all these ideas to consider four realistic design challenges: user mobility, cloud services, Software Defined Networking (SDN), and today's radically new data center environments. • Understand how your choices of technologies and design paradigms will impact your business • Customize designs to improve workflows, support BYOD, and ensure business continuity • Use modularity, simplicity, and network management to prepare for rapid change • Build resilience by addressing human factors and redundancy • Design for security, hardening networks without making them brittle • Minimize network management pain, and maximize gain • Compare topologies and their tradeoffs • Consider the implications of network virtualization, and walk through an MPLS-based L3VPN example • Choose routing protocols in the context of business and IT requirements • Maximize mobility via ILNP, LISP, Mobile IP, host routing, MANET, and/or DDNS • Learn about the challenges of removing and changing services hosted in cloud environments • Understand the opportunities and risks presented by SDNs • Effectively design data center control planes and topologies
Cyber Security Essentials Cisco Press
Set up a secure network at home or the office Fully revised to cover Windows 10 and Windows Server 2019, this new edition of the trusted Networking For Dummies helps both beginning network administrators and home users to set up and maintain a network. Updated coverage of

broadband and wireless technologies, as well as storage and back-up procedures, ensures that you'll learn how to build a wired or wireless network, secure and optimize it, troubleshoot problems, and much more. From connecting to the Internet and setting up a wireless network to solving networking problems and backing up your data—this #1 bestselling guide covers it all. Build a wired or wireless network Secure and optimize your network Set up a server and manage Windows user accounts Use the cloud—safely Written by a seasoned technology author—and jam-packed with tons of helpful step-by-step instructions—this is the book network administrators and everyday computer users will turn to again and again.

Network World Packt Publishing Ltd

The essential guide to understanding and using firewalls to protect personal computers and your network An easy-to-read introduction to the most commonly deployed network security device Understand the threats firewalls are designed to protect against Learn basic firewall architectures, practical deployment scenarios, and common management and troubleshooting tasks Includes configuration, deployment, and management checklists Increasing reliance on the Internet in both work and home environments has radically increased the vulnerability of computing systems to attack from a wide variety of threats. Firewall technology continues to be the most prevalent form of protection against existing and new threats to computers and networks. A full understanding of what firewalls can do, how they can be deployed to maximum effect, and the differences among firewall types can make the difference between continued network integrity and complete network or computer failure. Firewall Fundamentals introduces readers to firewall concepts and explores various commercial and open source firewall implementations--including Cisco, Linksys, and Linux--allowing network administrators and small office/home office computer users to effectively choose and configure their devices. Firewall Fundamentals is written in clear and easy-to-understand language and helps novice users understand what firewalls are and how and where they are used. It introduces various types of firewalls, first conceptually and then by explaining how different firewall implementations actually work. It also provides numerous implementation examples, demonstrating the use of firewalls in both personal and business-related scenarios, and explains how a firewall should be installed and configured. Additionally, generic firewall troubleshooting methodologies and common management tasks are clearly defined and explained.

Protect Your Windows Network CRC Press

The sophisticated methods used in recent high-profile cyber incidents have driven many to need to understand how such security issues work. Demystifying the complexity often associated with information assurance, Cyber Security Essentials provides a clear understanding of the concepts behind prevalent threats, tactics, and procedures.To accomplish

Developing Cybersecurity Programs and Policies Rob Botwright
For more than 20 years, Network World has been the premier provider of information, intelligence and insight for network and IT executives responsible for the digital nervous systems of large organizations. Readers are responsible for designing, implementing and managing the voice, data and video systems their companies use to support everything from business critical applications to employee collaboration and electronic commerce.
The Basics of Information Security Cisco Press
Build a resilient network and prevent advanced cyber attacks and breaches Key Features Explore modern cybersecurity techniques to protect your networks from ever-evolving cyber threats Prevent cyber attacks by using robust cybersecurity strategies Unlock the secrets of network security Book Description With advanced cyber attacks severely impacting industry giants and the constantly evolving threat landscape, organizations are adopting complex systems to maintain robust and secure environments. Network Security Strategies will help you get well-versed with the tools and techniques required to protect any network environment against modern cyber threats. You'll understand how to identify security vulnerabilities across the network and how to effectively use a variety of network security techniques and platforms. Next, the book will show you how to design a robust network that provides top-notch security to protect against traditional and new evolving attacks. With the help of detailed solutions and explanations, you'll be able to monitor networks skillfully and identify potential risks. Finally, the book will cover topics relating to thought leadership and the management aspects of network security. By the end of this network security book, you'll be well-versed in defending your network from threats and be able to consistently maintain operational efficiency, security, and privacy in your environment. What you will learn Understand network security essentials, including concepts, mechanisms, and solutions to implement secure networks Get to grips with setting up and threat monitoring cloud and wireless networks Defend your network against emerging cyber threats in 2020 Discover tools, frameworks, and best practices for network penetration testing Understand digital forensics to enhance your network security skills Adopt a proactive approach to stay ahead in network security Who this book is for This book is for anyone looking to explore information security, privacy, malware, and cyber threats. Security experts who want to enhance their skill set will also find this book useful. A prior understanding of cyber threats and information security will help you understand the key concepts covered in the book more effectively.
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to understand the concepts, methods, tools, platforms, and systems required to master the art of cybersecurity Key FeaturesGet hold of the best defensive security strategies and toolsDevelop a defensive security strategy at an enterprise levelGet hands-on with advanced cybersecurity threat detection, including XSS, SQL injections, brute forcing web applications, and moreBook Description Every organization has its own data and digital assets that need to be protected against an ever-growing threat landscape that compromises the availability, integrity, and confidentiality of crucial data. Therefore, it is important to train professionals in the latest defensive security skills and tools to secure them. Mastering Defensive Security provides you with in-depth knowledge of the latest cybersecurity threats along with the best tools and techniques needed to keep your infrastructure secure. The book begins by establishing a strong foundation of cybersecurity concepts and advances to explore the latest security technologies such as Wireshark, Damn Vulnerable Web App (DVWA), Burp Suite, OpenVAS, and Nmap, hardware threats such as a weaponized Raspberry Pi, and hardening techniques for Unix, Windows, web applications, and cloud infrastructures. As you make progress through the chapters, you'll get to grips with several advanced techniques such as malware analysis, security automation, computer forensics, and vulnerability assessment, which will help you to leverage pentesting for security. By the end of this book, you'll have become familiar with creating your own defensive security tools using IoT devices and developed advanced defensive security skills. What you will learnBecome well versed with concepts related to defensive securityDiscover strategies and tools to secure the most vulnerable factor – the userGet hands-on experience using and configuring the best security toolsUnderstand how to apply hardening techniques in Windows and Unix environmentsLeverage malware analysis and forensics to enhance your security strategySecure Internet of Things (IoT) implementationsEnhance the security of web applications and cloud deploymentsWho this book is for This book is for all IT professionals who want to take their first steps into the world of defensive security; from system admins and programmers to data analysts and data scientists with an interest in security. Experienced cybersecurity professionals working on broadening their knowledge and keeping up to date with the latest defensive developments will also find plenty of useful information in this book. You'll need a basic understanding of networking, IT, servers, virtualization, and cloud platforms before you get started with this book.

Computer Networks John Wiley & Sons

All the Knowledge You Need to Build Cybersecurity Programs and Policies That Work Clearly presents best practices, governance frameworks, and key standards Includes focused coverage of healthcare, finance, and PCI DSS compliance An essential and invaluable guide for leaders, managers, and technical

professionals Today, cyberattacks can place entire organizations at risk. Cybersecurity can no longer be delegated to specialists: success requires everyone to work together, from leaders on down. Developing Cybersecurity Programs and Policies offers start-to-finish guidance for establishing effective cybersecurity in any organization. Drawing on more than 20 years of real-world experience, Omar Santos presents realistic best practices for defining policy and governance, ensuring compliance, and collaborating to harden the entire organization. First, Santos shows how to develop workable cybersecurity policies and an effective framework for governing them. Next, he addresses risk management, asset management, and data loss prevention, showing how to align functions from HR to physical security. You'll discover best practices for securing communications, operations, and access; acquiring, developing, and maintaining technology; and responding to incidents. Santos concludes with detailed coverage of compliance in finance and healthcare, the crucial Payment Card Industry Data Security Standard (PCI DSS) standard, and the NIST Cybersecurity Framework. Whatever your current responsibilities, this guide will help you plan, manage, and lead cybersecurity–and safeguard all the assets that matter. Learn How To · Establish cybersecurity policies and governance that serve your organization's needs · Integrate cybersecurity program components into a coherent framework for action · Assess, prioritize, and manage security risk throughout the organization · Manage assets and prevent data loss · Work with HR to address human factors in cybersecurity · Harden your facilities and physical environment · Design effective policies for securing communications, operations, and access · Strengthen security throughout the information systems lifecycle · Plan for quick, effective incident response and ensure business continuity · Comply with rigorous regulations in finance and healthcare · Plan for PCI compliance to safely process payments · Explore and apply the guidance provided by the NIST Cybersecurity Framework

Network Vulnerability Assessment John Wiley & Sons

The authoritative visual guide to Cisco Firepower Threat Defense (FTD) This is the definitive guide to best practices and advanced troubleshooting techniques for the Cisco flagship Firepower Threat Defense (FTD) system running on Cisco ASA platforms, Cisco Firepower security appliances, Firepower eXtensible Operating System (FXOS), and VMware virtual appliances. Senior Cisco engineer Nazmul Rajib draws on unsurpassed experience supporting and training Cisco Firepower engineers worldwide, and presenting detailed knowledge of Cisco Firepower deployment, tuning, and troubleshooting. Writing for cybersecurity consultants, service providers, channel partners, and enterprise or government security professionals, he shows how to deploy the Cisco Firepower next-generation security technologies to protect your network from potential cyber threats, and how to use Firepower's robust command-line tools to

investigate a wide variety of technical issues. Each consistently organized chapter contains definitions of keywords, operational flowcharts, architectural diagrams, best practices, configuration steps (with detailed screenshots), verification tools, troubleshooting techniques, and FAQs drawn directly from issues raised by Cisco customers at the Global Technical Assistance Center (TAC). Covering key Firepower materials on the CCNA Security, CCNP Security, and CCIE Security exams, this guide also includes end-of-chapter quizzes to help candidates prepare. · Understand the operational architecture of the Cisco Firepower NGFW, NGIPS, and AMP technologies · Deploy FTD on ASA platform and Firepower appliance running FXOS · Configure and troubleshoot Firepower Management Center (FMC) · Plan and deploy FMC and FTD on VMware virtual appliance · Design and implement the Firepower management network on FMC and FTD · Understand and apply Firepower licenses, and register FTD with FMC · Deploy FTD in Routed, Transparent, Inline, Inline Tap, and Passive Modes · Manage traffic flow with detect-only, block, trust, and bypass operations · Implement rate limiting and analyze quality of service (QoS) · Blacklist suspicious IP addresses via Security Intelligence · Block DNS queries to the malicious domains · Filter URLs based on category, risk, and reputation · Discover a network and implement application visibility and control (AVC) · Control file transfers and block malicious files using advanced malware protection (AMP) · Halt cyber attacks using Snort-based intrusion rule · Masquerade an internal host's original IP address using Network Address Translation (NAT) · Capture traffic and obtain troubleshooting files for advanced analysis · Use command-line tools to identify status, trace packet flows, analyze logs, and debug messages

Network Security Strategies Syngress This is a practical certification guide covering all the exam topics in an easy-to-follow manner backed with mock tests and self-assesment scenarios for better preparation. Key FeaturesLearn cryptography and various cryptography algorithms for real-world implementationsDiscover security policies, plans, and procedures to protect your security infrastructure Written by Ian Neil, one of the world's top CompTIA Security+ (SY0-501) trainerBook Description CompTIA Security+ is a worldwide certification that establishes the fundamental knowledge required to perform core security functions and pursue an IT security career. CompTIA Security+ Certification Guide is a best-in-class exam study guide that covers all of CompTIA Security+ 501 exam objectives. It is authored by Ian Neil, who is a world-class trainer of CompTIA Security+ 501. Packed with self-assessment scenarios and realistic exam questions, this guide will help you master the core concepts to succeed in the exam the first time you take it. Using relevant examples, you will learn all the important security fundamentals from Certificates and Encryption to Identity and Access Management concepts. You will then dive into the important domains of the exam; namely, threats, attacks and vulnerabilities,

technologies and tools, architecture and design, risk management, and cryptography and Public Key Infrastructure (PKI). This book comes with over 600 practice questions with detailed explanation that is at the exam level and also includes two mock exams to help you with your study plan. This guide will ensure that encryption and certificates are made easy for you. What you will learnGet to grips with security fundamentals from Certificates and Encryption to Identity and Access ManagementSecure devices and applications that are used by your companyIdentify the different types of malware and virus and take appropriate actions to protect against themProtect your environment against social engineering and advanced attacksImplement PKI conceptsLearn about secure coding techniques, quality control, and testingTroubleshoot common security issuesWho this book is for This book is designed for anyone who is seeking to pass the CompTIA Security+ SY0-501 exam. It is a stepping stone for anyone who wants to become a security professional or move into cyber security. This certification guide assumes no prior knowledge of the product. *Guide to Computer Network Security* Pearson Education CompTIA Security+ Study Guide (Exam SY0-601) *Zero Trust Networks* Jones & Bartlett Publishers Insights into the true history of cyber warfare, and the strategies, tactics, and cybersecurity tools that can be used to better defend yourself and your organization against cyber threat. Key FeaturesDefine and determine a cyber-defence strategy based on current and past real-life examplesUnderstand how future technologies will impact cyber warfare campaigns and societyFuture-ready yourself and your business against any cyber threatBook Description The era of cyber warfare is now upon us. What we do now and how we determine what we will do in the future is the difference between whether our businesses live or die and whether our digital self survives the digital battlefield. Cyber Warfare – Truth, Tactics, and Strategies takes you on a journey through the myriad of cyber attacks and threats that are present in a world powered by AI, big data, autonomous vehicles, drones video, and social media. Dr. Chase Cunningham uses his military background to provide you with a unique perspective on cyber security and warfare. Moving away from a reactive stance to one that is forward-looking, he aims to prepare people and organizations to better defend themselves in a world where there are no borders or perimeters. He demonstrates how the cyber landscape is growing infinitely more complex and is continuously evolving at the speed of light. The book not only covers cyber warfare, but it also looks at the political, cultural, and geographical influences that pertain to these attack methods and helps you understand the motivation and impacts that are likely in each scenario. Cyber Warfare – Truth, Tactics, and Strategies is as real-life and up-to-date as cyber can possibly be, with examples of actual attacks and defense techniques, tools. and strategies presented for you to learn how to think about defending your own

systems and data. What you will learnHacking at scale – how machine learning (ML) and artificial intelligence (AI) skew the battlefieldDefending a boundaryless enterpriseUsing video and audio as weapons of influenceUncovering DeepFakes and their associated attack vectorsUsing voice augmentation for exploitationDefending when there is no perimeterResponding tactically to counter-campaign-based attacksWho this book is for This book is for any engineer, leader, or professional with either a responsibility for cyber security within their organizations, or an interest in working in this ever-growing field.
Fundamentals of Communications and Networking Cisco Press Become well-versed with basic networking concepts such as routing, switching, and subnetting, and prepare for the Microsoft 98-366 exam Key FeaturesBuild a strong foundation in networking conceptsExplore both the hardware and software aspects of networkingPrepare by taking mock tests with up-to-date exam questionsBook Description A network is a collection of computers, servers, mobile devices, or other computing devices connected for sharing data. This book will help you become well versed in basic networking concepts and prepare to pass Microsoft's MTA Networking Fundamentals Exam 98-366. Following Microsoft's official syllabus, the book starts by covering network infrastructures to help you differentiate intranets, internets, and extranets, and learn about network topologies. You'll then get up to date with common network hardware devices such as routers and switches and the media types used to connect them together. As you advance, the book will take you through different protocols and services and the requirements to follow a standardized approach to networking. You'll get to grips with the OSI and TCP/IP models as well as IPv4 and IPv6. The book also shows you how to recall IP addresses through name resolution. Finally, you'll be able to practice everything you've learned and take the exam confidently with the help of mock tests. By the end of this networking book, you'll have developed a strong foundation in the essential networking concepts needed to pass Exam 98-366. What you will learn Things you will learn: Become well versed in networking topologies and conceptsUnderstand network infrastructures such as intranets, extranets, and moreExplore network switches, routers, and other network hardware devicesGet to grips with different network protocols and models such as OSI and TCP/IPWork with a variety of network services such as DHCP, NAT, firewalls, and remote accessApply networking concepts in different real-world scenariosWho this book is for If you're new to the IT industry or simply want to gain a thorough understanding of networking, this book is for you. A basic understanding of the Windows operating system and your network environment will be helpful.
Fundamentals of Information Systems Security Rob Botwright The essential reference for security pros and CCIE Security candidates: policies, standards, infrastructure/perimeter and content security, and

threat protection Integrated Security Technologies and Solutions – Volume I offers one-stop expert-level instruction in security design, deployment, integration, and support methodologies to help security professionals manage complex solutions and prepare for their CCIE exams. It will help security pros succeed in their day-to-day jobs and also get ready for their CCIE Security written and lab exams. Part of the Cisco CCIE Professional Development Series from Cisco Press, it is authored by a team of CCIEs who are world-class experts in their Cisco security disciplines, including co-creators of the CCIE Security v5 blueprint. Each chapter starts with relevant theory, presents configuration examples and applications, and concludes with practical troubleshooting. Volume 1 focuses on security policies and standards; infrastructure security; perimeter security (Next-Generation Firewall, Next-Generation Intrusion Prevention Systems, and Adaptive Security Appliance [ASA]), and the advanced threat protection and content security sections of the CCIE Security v5 blueprint. With a strong focus on interproduct integration, it also shows how to combine formerly disparate systems into a seamless, coherent next-generation security solution. Review security standards, create security policies, and organize security with Cisco SAFE architecture Understand and mitigate threats to network infrastructure, and protect the three planes of a network device Safeguard wireless networks, and mitigate risk on Cisco WLC and access points Secure the network perimeter with Cisco Adaptive Security Appliance (ASA) Configure Cisco Next-Generation Firewall Firepower Threat Defense (FTD) and operate security via Firepower Management Center (FMC) Detect and prevent intrusions with Cisco Next-Gen IPS, FTD, and FMC Configure and verify Cisco IOS firewall features such as ZBFW and address translation Deploy and configure the Cisco web and email security appliances to protect content and defend against advanced threats Implement Cisco Umbrella Secure Internet Gateway in the cloud as your first line of defense against internet threats Protect against new malware with Cisco Advanced Malware Protection and Cisco ThreatGrid

The Art of Network Architecture Springer Science & Business Media If we are to believe in Moore’s law, then every passing day brings new and advanced changes to the technology arena. We are as amazed by miniaturization of computing devices as we are amused by their speed of computation. Everything seems to be in ? ux and moving fast. We are also fast moving towards ubiquitous computing. To achieve this kind of computing landscape, new ease and seamless computing user interfaces have to be developed. Believe me, if you mature and have ever program any digital device, you are, like me, looking forward to this brave new computing landscape with anticipation. However, if history is any guide to use, we in information security, and indeed every computing device user young and old, must brace themselves for a future full of problems. As we enter into this world of fast, small and concealable ubiquitous computing devices, we

are entering fertile territory for dubious, mischievous, and malicious people. We need to be on guard because, as expected, help will be slow coming because ? rst, well trained and experienced personnel will still be dif? cult to get and those that will be found will likely be very expensive as the case is today.

Mastering Defensive Security Addison-Wesley Professional

 Become a Certified Penetration Tester! Are you ready to level up your cybersecurity skills and become a certified penetration tester? Look no further! Introducing the ultimate resource for cybersecurity professionals: the "PENTEST+ EXAM PASS: (PT0-002)" book bundle! This comprehensive bundle is designed to help you ace the CompTIA PenTest+ certification exam and excel in the dynamic field of penetration testing and vulnerability management. What's Inside: Book 1 - PENTEST+ EXAM PASS: FOUNDATION FUNDAMENTALS: Master the foundational concepts and methodologies of penetration testing, vulnerability assessment, and risk management. Book 2 - PENTEST+ EXAM PASS: ADVANCED TECHNIQUES AND TOOLS: Dive deeper into advanced techniques and tools used by cybersecurity professionals to identify, exploit, and mitigate vulnerabilities. Book 3 - PENTEST+ EXAM PASS: NETWORK EXPLOITATION AND DEFENSE STRATEGIES: Learn about network exploitation and defense strategies to protect against sophisticated cyber threats. Book 4 - PENTEST+ EXAM PASS: EXPERT INSIGHTS AND REAL-WORLD SCENARIOS: Gain valuable insights and practical knowledge through expert insights and real-world scenarios, going beyond the exam syllabus. Why Choose Us? Comprehensive Coverage: Covering all aspects of penetration testing and vulnerability management. Expert Insights: Learn from industry experts and real-world scenarios. Practical Approach: Gain hands-on experience with practical examples and case studies. Exam Preparation: Ace the CompTIA PenTest+ exam with confidence. Don't miss out on this opportunity to enhance your cybersecurity career and become a certified penetration tester. Get your copy of the "PENTEST+ EXAM PASS: (PT0-002)" book bundle today!

Integrated Security Technologies and Solutions - Volume I Packt Publishing Ltd

"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.

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