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Applied Network Security Monitoring is the essential guide to becoming an NSM analyst from the ground up. This book takes a fundamental approach to NSM, complete with dozens of real-world examples that teach you the key concepts of NSM. Network security monitoring is based on the principle that prevention eventually fails. In the current threat landscape, no matter how much you try, motivated attackers will eventually find their way into your

network. At that point, it is your ability to detect and respond to that intrusion that can be the difference between a small incident and a major disaster. The book follows the three stages of the NSM cycle: collection, detection, and analysis. As you progress through each section, you will have access to insights from seasoned NSM professionals while being introduced to relevant, practical scenarios complete with sample data. If you've never performed NSM analysis, Applied Network Security Monitoring will give you an adequate grasp on the core concepts needed to become an effective analyst. If you are already a practicing analyst, this book will allow you to grow your analytic technique to make you more effective at your job. Discusses the proper methods for data collection, and teaches you how to become a skilled NSM analyst Provides thorough hands-on coverage of Snort, Suricata, Bro-IDS, SiLK, and Argus Loaded with practical examples containing real PCAP files you can replay, and uses Security Onion for all its lab examples Companion website includes up-to-date blogs from the authors about the latest developments in NSM This complete field guide, authorized by Juniper Networks, is the perfect hands-on reference for deploying, configuring, and operating Juniper's SRX Series networking device. Authors Brad Woodberg and Rob Cameron provide field-tested best practices for getting the most out of SRX deployments, based on their extensive field experience. While their earlier book, Junos Security, covered the SRX platform, this book focuses on the SRX Series devices themselves. You'll learn how to use SRX gateways to address an array of network requirements—including IP routing, intrusion detection, attack mitigation, unified threat management, and WAN acceleration. Along with case studies and troubleshooting tips, each chapter provides study questions and lots of useful illustrations. Explore SRX components, platforms, and various deployment scenarios Learn best practices for configuring SRX's core networking features Leverage SRX system services to attain the best operational state Deploy SRX in transparent mode to act as a Layer 2 bridge Configure, troubleshoot, and deploy SRX in a highly available manner Design and configure an effective security policy in your network Implement and configure network address translation (NAT) types Provide security against deep threats with AppSecure, intrusion protection services, and unified threat management tools The average Snort user needs to learn how to actually get their systems up-and-running. "Snort Intrusion Detection" provides readers with practical guidance on how to put Snort to work. Opening with a primer to intrusion detection, the book takes readers through planning an installation to building the server and sensor. 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. 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. A complete pentesting guide facilitating smooth backtracking for working hackers

About This Book
Conduct network testing, surveillance, pen testing and forensics on MS Windows using Kali Linux
Gain a deep understanding of the flaws in web applications and exploit them in a practical manner
Pentest Android apps and perform various attacks in the real world using real case studies
Who This Book Is For
This course is for anyone who wants to learn about security. Basic knowledge of Android programming would be a plus. What You Will Learn
Exploit several common Windows network vulnerabilities
Recover lost files, investigate successful hacks, and discover hidden data in innocent-looking files
Expose vulnerabilities present in web servers and their applications using server-side attacks
Use SQL and cross-site scripting (XSS) attacks
Check for XSS flaws using the burp suite proxy
Acquaint yourself with the fundamental building blocks of Android Apps in the right way
Take a look at how your personal data can be stolen by malicious attackers
See how developers make mistakes that allow attackers to steal data from phones
In Detail
The need for penetration testers has grown well over what the IT industry ever anticipated. Running just a vulnerability scanner is no longer an effective method to determine whether a business is truly secure. This learning path will help you develop the most effective penetration testing skills to protect your Windows, web applications, and Android devices. The first module focuses on the Windows platform, which is one of the most common OSes, and managing its security spawned the discipline of IT security. Kali Linux is the premier platform for testing and maintaining Windows security. Employs the most

advanced tools and techniques to reproduce the methods used by sophisticated hackers. In this module first, you'll be introduced to Kali's top ten tools and other useful reporting tools. Then, you will find your way around your target network and determine known vulnerabilities so you can exploit a system remotely. You'll not only learn to penetrate in the machine, but will also learn to work with Windows privilege escalations. The second module will help you get to grips with the tools used in Kali Linux 2.0 that relate to web application hacking. You will get to know about scripting and input validation flaws, AJAX, and security issues related to AJAX. You will also use an automated technique called fuzzing so you can identify flaws in a web application. Finally, you'll understand the web application vulnerabilities and the ways they can be exploited. In the last module, you'll get started with Android security. Android, being the platform with the largest consumer base, is the obvious primary target for attackers. You'll begin this journey with the absolute basics and will then slowly gear up to the concepts of Android rooting, application security assessments, malware, infecting APK files, and fuzzing. You'll gain the skills necessary to perform Android application vulnerability assessments and to create an Android pentesting lab. This Learning Path is a blend of content from the following Packt products: Kali Linux 2: Windows Penetration Testing by Wolf Halton and Bo Weaver Web Penetration Testing with Kali Linux, Second Edition by Juned Ahmed Ansari Hacking Android by Srinivasa Rao Kotipalli and Mohammed A. Imran Style and approach This course uses easy-to-understand yet professional language for explaining concepts to test your network's security. Follow Google's own ten-step plan to construct a secure, reliable, and extensible foundation for all your Google Cloud base infrastructural needs Key Features Build your foundation in Google Cloud with this clearly laid out, step-by-step guide Get expert advice from one of Google's top trainers Learn to build flexibility and security into your Google Cloud presence from the ground up Book Description From data ingestion and storage, through data processing and data analytics, to application hosting and even machine learning, whatever your IT infrastructural need, there's a good chance that Google Cloud has a service that can help. But instant, self-serve access to a virtually limitless pool of IT resources has its drawbacks. More and more organizations are running into cost overruns, security problems, and simple "why is this not working?" headaches. This book has been written by one of Google's top trainers as a tutorial on how to create your infrastructural foundation in Google Cloud the right way. By following Google's ten-step checklist and Google's security blueprint, you will learn how to set up your initial identity provider and create an organization. Further on, you will configure your users and groups, enable administrative access, and set up billing. Next, you will create a

resource hierarchy, configure and control access, and enable a cloud network. Later chapters will guide you through configuring monitoring and logging, adding additional security measures, and enabling a support plan with Google. By the end of this book, you will have an understanding of what it takes to leverage Terraform for properly building a Google Cloud foundational layer that engenders security, flexibility, and extensibility from the ground up. What you will learn

- Create an organizational resource hierarchy in Google Cloud
- Configure user access, permissions, and key Google Cloud Platform (GCP) security groups
- Construct well thought out, scalable, and secure virtual networks
- Stay informed about the latest logging and monitoring best practices
- Leverage Terraform infrastructure as code automation to eliminate toil
- Limit access with IAM policy bindings and organizational policies
- Implement Google's secure foundation blueprint

Who this book is for This book is for anyone looking to implement a secure foundational layer in Google Cloud, including cloud engineers, DevOps engineers, cloud security practitioners, developers, infrastructural management personnel, and other technical leads. A basic understanding of what the cloud is and how it works, as well as a strong desire to build out Google Cloud infrastructure the right way will help you make the most of this book. Knowledge of working in the terminal window from the command line will be beneficial. NOTE: The exam this book covered, CASP: CompTIA Advanced Security Practitioner (Exam CAS-002), was retired by CompTIA in 2019 and is no longer offered. For coverage of the current exam CASP+ CompTIA Advanced Security Practitioner: Exam CAS-003, Third Edition, please look for the latest edition of this guide: CASP+ CompTIA Advanced Security Practitioner Study Guide: Exam CAS-003, Third Edition (9781119477648). CASP: CompTIA Advanced Security Practitioner Study Guide: CAS-002 is the updated edition of the bestselling book covering the CASP certification exam. CompTIA approved, this guide covers all of the CASP exam objectives with clear, concise, thorough information on crucial security topics. With practical examples and insights drawn from real-world experience, the book is a comprehensive study resource with authoritative coverage of key concepts. Exam highlights, end-of-chapter reviews, and a searchable glossary help with information retention, and cutting-edge exam prep software offers electronic flashcards and hundreds of bonus practice questions. Additional hands-on lab exercises mimic the exam's focus on practical application, providing extra opportunities for readers to test their skills. CASP is a DoD 8570.1-recognized security certification that validates the skillset of advanced-level IT security professionals. The exam measures the technical knowledge and skills required to conceptualize, design, and engineer secure solutions across complex enterprise environments, as well as the ability to think critically and apply

good judgment across a broad spectrum of security disciplines. This study guide helps CASP candidates thoroughly prepare for the exam, providing the opportunity to: Master risk management and incident response Sharpen research and analysis skills Integrate computing with communications and business Review enterprise management and technical component integration Experts predict a 45-fold increase in digital data by 2020, with one-third of all information passing through the cloud. Data has never been so vulnerable, and the demand for certified security professionals is increasing quickly. The CASP proves an IT professional's skills, but getting that certification requires thorough preparation. This CASP study guide provides the information and practice that eliminate surprises on exam day. Also available as a set, Security Practitioner & Cryptography Set, 9781119071549 with Applied Cryptography: Protocols, Algorithms, and Source Code in C, 2nd Edition. This is the eBook version of the print title and might not provide access to the practice test software that accompanies the print book. Learn, prepare, and practice for CompTIA Cybersecurity Analyst (CSA+) exam success with this CompTIA Authorized Cert Guide from Pearson IT Certification, a leader in IT certification learning and a CompTIA Authorized Platinum Partner.

- Master CompTIA Cybersecurity Analyst (CSA+) exam topics
- Assess your knowledge with chapter-ending quizzes
- Review key concepts with exam preparation tasks
- Practice with realistic exam questions

CompTIA Cybersecurity Analyst (CSA+) Cert Guide is a best-of-breed exam study guide. Expert technology instructor and certification author Troy McMillan shares preparation hints and test-taking tips, helping you identify areas of weakness and improve both your conceptual knowledge and hands-on skills. Material is presented in a concise manner, focusing on increasing your understanding and retention of exam topics. The book presents you with an organized test-preparation routine through the use of proven series elements and techniques. Exam topic lists make referencing easy. Chapter-ending Exam Preparation Tasks help you drill on key concepts you must know thoroughly. Review questions help you assess your knowledge, and a final preparation chapter guides you through tools and resources to help you craft your final study plan. The companion website contains the powerful Pearson Test Prep practice test software, complete with hundreds of exam-realistic questions. The assessment engine offers you a wealth of customization options and reporting features, laying out a complete assessment of your knowledge to help you focus your study where it is needed most. Well regarded for its level of detail, assessment features, and challenging review questions and exercises, this CompTIA authorized study guide helps you master the concepts and techniques that will enable you to succeed on the exam the first time. The CompTIA authorized study guide helps you master all the topics on

the CSA+ exam, including · Applying environmental reconnaissance · Analyzing results of network reconnaissance · Implementing responses and countermeasures · Implementing vulnerability management processes · Analyzing scan output and identifying common vulnerabilities · Identifying incident impact and assembling a forensic toolkit · Utilizing effective incident response processes · Performing incident recovery and post-incident response · Establishing frameworks, policies, controls, and procedures · Remediating identity- and access-related security issues · Architecting security and implementing compensating controls · Implementing application security best practices · Using cybersecurity tools and technologies

A log is a record of the events occurring within an org's systems & networks. Many logs within an org. contain records related to computer security (CS). These CS logs are generated by many sources, incl. CS software, such as antivirus software, firewalls, & intrusion detection & prevention systems; operating systems on servers, workstations, & networking equip.; & applications. The no., vol., & variety of CS logs have increased greatly, which has created the need for CS log mgmt. -- the process for generating, transmitting, storing, analyzing, & disposing of CS data. This report assists org's. in understanding the need for sound CS log mgmt. It provides practical, real-world guidance on developing, implementing, & maintaining effective log mgmt. practices.

Illus. Prepare for the CEH training course and exam by gaining a solid foundation of knowledge of key fundamentals such as operating systems, databases, networking, programming, cloud, and virtualization. Based on this foundation, the book moves ahead with simple concepts from the hacking world. The Certified Ethical Hacker (CEH) Foundation Guide also takes you through various career paths available upon completion of the CEH course and also prepares you to face job interviews when applying as an ethical hacker. The book explains the concepts with the help of practical real-world scenarios and examples. You'll also work with hands-on exercises at the end of each chapter to get a feel of the subject. Thus this book would be a valuable resource to any individual planning to prepare for the CEH certification course.

What You Will Learn

- Gain the basics of hacking (apps, wireless devices, and mobile platforms)
- Discover useful aspects of databases and operating systems from a hacking perspective
- Develop sharper programming and networking skills for the exam
- Explore the penetration testing life cycle
- Bypass security appliances like IDS, IPS, and honeypots
- Grasp the key concepts of cryptography
- Discover the career paths available after certification
- Revise key interview questions for a certified ethical hacker

Who This Book Is For

Beginners in the field of ethical hacking and information security, particularly those who are interested in the CEH course and certification. The Perfect Reference for the Multitasked SysAdmin

This is the perfect guide if network security tools is not your specialty. It is the perfect introduction to managing an infrastructure with freely available, and powerful, Open Source tools. Learn how to test and audit your systems using products like Snort and Wireshark and some of the add-ons available for both. In addition, learn handy techniques for network troubleshooting and protecting the perimeter.

- * Take Inventory See how taking an inventory of the devices on your network must be repeated regularly to ensure that the inventory remains accurate.
- * Use Nmap Learn how Nmap has more features and options than any other free scanner.
- * Implement Firewalls Use netfilter to perform firewall logic and see how SmoothWall can turn a PC into a dedicated firewall appliance that is completely configurable.
- * Perform Basic Hardening Put an IT security policy in place so that you have a concrete set of standards against which to measure.
- * Install and Configure Snort and Wireshark Explore the feature set of these powerful tools, as well as their pitfalls and other security considerations.
- * Explore Snort Add-Ons Use tools like Oinkmaster to automatically keep Snort signature files current.
- * Troubleshoot Network Problems See how to reporting on bandwidth usage and other metrics and to use data collection methods like sniffing, NetFlow, and SNMP.
- * Learn Defensive Monitoring Considerations See how to define your wireless network boundaries, and monitor to know if they're being exceeded and watch for unauthorized traffic on your network.

Covers the top 10 most popular open source security tools including Snort, Nessus, Wireshark, Nmap, and Kismet Follows Syngress' proven "How to Cheat" pedagogy providing readers with everything they need and nothing they don't Administrators, more technically savvy than their managers, have started to secure the networks in a way they see as appropriate. When management catches up to the notion that security is important, system administrators have already altered the goals and business practices. Although they may be grateful to these people for keeping the network secure, their efforts do not account for all assets and business requirements Finally, someone decides it is time to write a security policy. Management is told of the necessity of the policy document, and they support its development. A manager or administrator is assigned to the task and told to come up with something, and fast! Once security policies are written, they must be treated as living documents. As technology and business requirements change, the policy must be updated to reflect the new environment--at least one review per year. Additionally, policies must include provisions for security awareness and enforcement while not impeding corporate goals. This book serves as a guide to writing and maintaining these all-important security policies. An all-star cast of authors analyze the top IT security threats for 2008 as selected by the editors and readers of Infosecurity Magazine. This book, compiled from

the Syngress Security Library, is an essential reference for any IT professional managing enterprise security. It serves as an early warning system, allowing readers to assess vulnerabilities, design protection schemes and plan for disaster recovery should an attack occur. Topics include Botnets, Cross Site Scripting Attacks, Social Engineering, Physical and Logical Convergence, Payment Card Industry (PCI) Data Security Standards (DSS), Voice over IP (VoIP), and Asterisk Hacking. Each threat is fully defined, likely vulnerabilities are identified, and detection and prevention strategies are considered. Wherever possible, real-world examples are used to illustrate the threats and tools for specific solutions. * Provides IT Security Professionals with a first look at likely new threats to their enterprise * Includes real-world examples of system intrusions and compromised data * Provides techniques and strategies to detect, prevent, and recover * Includes coverage of PCI, VoIP, XSS, Asterisk, Social Engineering, Botnets, and Convergence Improve your organization's security posture by performing routine administration tasks flawlessly Key FeaturesGet a gradual and practical introduction to Check Point firewallsAcquire the knowledge and skills necessary for effective firewall administration, maintenance, and troubleshootingCreate and operate a lab environment with gradually increasing complexity to practice firewall administration skillsBook Description Check Point firewalls are the premiere firewalls, access control, and threat prevention appliances for physical and virtual infrastructures. With Check Point's superior security, administrators can help maintain confidentiality, integrity, and the availability of their resources protected by firewalls and threat prevention devices. This hands-on guide covers everything you need to be fluent in using Check Point firewalls for your operations. This book familiarizes you with Check Point firewalls and their most common implementation scenarios, showing you how to deploy them from scratch. You will begin by following the deployment and configuration of Check Point products and advance to their administration for an organization. Once you've learned how to plan, prepare, and implement Check Point infrastructure components and grasped the fundamental principles of their operation, you'll be guided through the creation and modification of access control policies of increasing complexity, as well as the inclusion of additional features. To run your routine operations infallibly, you'll also learn how to monitor security logs and dashboards. Generating reports detailing current or historical traffic patterns and security incidents is also covered. By the end of this book, you'll have gained the knowledge necessary to implement and comfortably operate Check Point firewalls. What you will learnUnderstand various Check Point implementation scenarios in different infrastructure topologiesPerform initial installation and configuration tasks using Web UI and the CLICreate objects of different

categories and typesConfigure different NAT optionsWork with access control policies and rulesUse identity awareness to create highly granular rulesOperate high-availability clustersWho this book is for Whether you're new to Check Point firewalls or looking to catch up with the latest R81.10++ releases, this book is for you. Although intended for information/cybersecurity professionals with some experience in network or IT infrastructure security, IT professionals looking to shift their career focus to cybersecurity will also find this firewall book useful. Familiarity with Linux and bash scripting is a plus. This certification guide focuses on identity solutions and strategies that will help you prepare for Microsoft Identity and Access Administrator certification, while enabling you to implement what you've learned in real-world scenarios

Key FeaturesDesign, implement, and operate identity and access management systems using Azure ADProvide secure authentication and authorization access to enterprise applicationsImplement access and authentication for cloud-only and hybrid infrastructures

Book Description Cloud technologies have made identity and access the new control plane for securing data. Without proper planning and discipline in deploying, monitoring, and managing identity and access for users, administrators, and guests, you may be compromising your infrastructure and data. This book is a preparation guide that covers all the objectives of the SC-300 exam, while teaching you about the identity and access services that are available from Microsoft and preparing you for real-world challenges. The book starts with an overview of the SC-300 exam and helps you understand identity and access management. As you progress to the implementation of IAM solutions, you'll learn to deploy secure identity and access within Microsoft 365 and Azure Active Directory. The book will take you from legacy on-premises identity solutions to modern and password-less authentication solutions that provide high-level security for identity and access. You'll focus on implementing access and authentication for cloud-only and hybrid infrastructures as well as understand how to protect them using the principles of zero trust. The book also features mock tests toward the end to help you prepare effectively for the exam. By the end of this book, you'll have learned how to plan, deploy, and manage identity and access solutions for Microsoft and hybrid infrastructures. What you will learn

Understand core exam objectives to pass the SC-300 examImplement an identity management solution with MS Azure ADManage identity with multi-factor authentication (MFA), conditional access, and identity protectionDesign, implement, and monitor the integration of enterprise apps for Single Sign-On (SSO)Add apps to your identity and access solution with app registrationDesign and implement identity governance for your identity solution

Who this book is for This book is for cloud security engineers, Microsoft 365 administrators, Microsoft 365

users, Microsoft 365 identity administrators, and anyone who wants to learn identity and access management and gain SC-300 certification. You should have a basic understanding of the fundamental services within Microsoft 365 and Azure Active Directory before getting started with this Microsoft book. IBM® InfoSphere® Guardium® provides the simplest, most robust solution for data security and data privacy by assuring the integrity of trusted information in your data center. InfoSphere Guardium helps you reduce support costs by automating the entire compliance auditing process across heterogeneous environments. InfoSphere Guardium offers a flexible and scalable solution to support varying customer architecture requirements. This IBM Redbooks® publication provides a guide for deploying the Guardium solutions. This book also provides a roadmap process for implementing an InfoSphere Guardium solution that is based on years of experience and best practices that were collected from various Guardium experts. We describe planning, installation, configuration, monitoring, and administrating an InfoSphere Guardium environment. We also describe use cases and how InfoSphere Guardium integrates with other IBM products. The guidance can help you successfully deploy and manage an IBM InfoSphere Guardium system. This book is intended for the system administrators and support staff who are responsible for deploying or supporting an InfoSphere Guardium environment. This timely textbook presents a comprehensive guide to the core topics in cybersecurity, covering issues of security that extend beyond traditional computer networks to the ubiquitous mobile communications and online social networks that have become part of our daily lives. In the context of our growing dependence on an ever-changing digital ecosystem, this book stresses the importance of security awareness, whether in our homes, our businesses, or our public spaces. This fully updated new edition features new material on the security issues raised by blockchain technology, and its use in logistics, digital ledgers, payments systems, and digital contracts.

Topics and features: Explores the full range of security risks and vulnerabilities in all connected digital systems
Inspires debate over future developments and improvements necessary to enhance the security of personal, public, and private enterprise systems
Raises thought-provoking questions regarding legislative, legal, social, technical, and ethical challenges, such as the tension between privacy and security
Describes the fundamentals of traditional computer network security, and common threats to security
Reviews the current landscape of tools, algorithms, and professional best practices in use to maintain security of digital systems
Discusses the security issues introduced by the latest generation of network technologies, including mobile systems, cloud computing, and blockchain
Presents exercises of varying levels of difficulty at the end of each chapter, and concludes with a diverse selection of practical

projects Offers supplementary material for students and instructors at an associated website, including slides, additional projects, and syllabus suggestions This important textbook/reference is an invaluable resource for students of computer science, engineering, and information management, as well as for practitioners working in data- and information-intensive industries. **GUIDE TO NETWORK SECURITY** is a wide-ranging new text that provides a detailed review of the network security field, including essential terminology, the history of the discipline, and practical techniques to manage implementation of network security solutions. It begins with an overview of information, network, and web security, emphasizing the role of data communications and encryption. The authors then explore network perimeter defense technologies and methods, including access controls, firewalls, VPNs, and intrusion detection systems, as well as applied cryptography in public key infrastructure, wireless security, and web commerce. The final section covers additional topics relevant for information security practitioners, such as assessing network security, professional careers in the field, and contingency planning. Perfect for both aspiring and active IT professionals, **GUIDE TO NETWORK SECURITY** is an ideal resource for students who want to help organizations protect critical information assets and secure their systems and networks, both by recognizing current threats and vulnerabilities, and by designing and developing the secure systems of the future. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Logging and Log Management: The Authoritative Guide to Understanding the Concepts Surrounding Logging and Log Management introduces information technology professionals to the basic concepts of logging and log management. It provides tools and techniques to analyze log data and detect malicious activity. The book consists of 22 chapters that cover the basics of log data; log data sources; log storage technologies; a case study on how syslog-ng is deployed in a real environment for log collection; covert logging; planning and preparing for the analysis log data; simple analysis techniques; and tools and techniques for reviewing logs for potential problems. The book also discusses statistical analysis; log data mining; visualizing log data; logging laws and logging mistakes; open source and commercial toolsets for log data collection and analysis; log management procedures; and attacks against logging systems. In addition, the book addresses logging for programmers; logging and compliance with regulations and policies; planning for log analysis system deployment; cloud logging; and the future of log standards, logging, and log analysis. This book was written for anyone interested in learning more about logging and log management. These include systems administrators, junior security engineers, application developers, and

managers. Comprehensive coverage of log management including analysis, visualization, reporting and more Includes information on different uses for logs -- from system operations to regulatory compliance Features case Studies on syslog-ng and actual real-world situations where logs came in handy in incident response Provides practical guidance in the areas of report, log analysis system selection, planning a log analysis system and log data normalization and correlation Implement a robust SIEM system Effectively manage the security information and events produced by your network with help from this authoritative guide. Written by IT security experts, Security Information and Event Management (SIEM) Implementation shows you how to deploy SIEM technologies to monitor, identify, document, and respond to security threats and reduce false-positive alerts. The book explains how to implement SIEM products from different vendors, and discusses the strengths, weaknesses, and advanced tuning of these systems. You'll also learn how to use SIEM capabilities for business intelligence. Real-world case studies are included in this comprehensive resource. Assess your organization's business models, threat models, and regulatory compliance requirements Determine the necessary SIEM components for small- and medium-size businesses Understand SIEM anatomy—source device, log collection, parsing/normalization of logs, rule engine, log storage, and event monitoring Develop an effective incident response program Use the inherent capabilities of your SIEM system for business intelligence Develop filters and correlated event rules to reduce false-positive alerts Implement AlienVault's Open Source Security Information Management (OSSIM) Deploy the Cisco Monitoring Analysis and Response System (MARS) Configure and use the Q1 Labs QRadar SIEM system Implement ArcSight Enterprise Security Management (ESM) v4.5 Develop your SIEM security analyst skills This book presents high-quality papers from the Fifth International Conference on Microelectronics, Computing & Communication Systems (MCCS 2020). It discusses the latest technological trends and advances in MEMS and nanoelectronics, wireless communication, optical communication, instrumentation, signal processing, image processing, bioengineering, green energy, hybrid vehicles, environmental science, weather forecasting, cloud computing, renewable energy, RFID, CMOS sensors, actuators, transducers, telemetry systems, embedded systems and sensor network applications. It includes papers based on original theoretical, practical and experimental simulations, development, applications, measurements and testing. The applications and solutions discussed here provide excellent reference material for future product development. CompTIA Security+ Study Guide (Exam SY0-601) "A provocative and jaunty romp through the dos and don'ts of writing for the internet" (NYT)--the practical, the playful, and the politically correct--from BuzzFeed copy

chief Emmy Favilla. *A World Without "Whom"* is Eats, Shoots & Leaves for the internet age, and BuzzFeed global copy chief Emmy Favilla is the witty go-to style guru of webspeak. As language evolves faster than ever before, what is the future of "correct" writing? When Favilla was tasked with creating a style guide for BuzzFeed, she opted for spelling, grammar, and punctuation guidelines that would reflect not only the site's lighthearted tone, but also how readers actually use language IRL. With wry cleverness and an uncanny intuition for the possibilities of internet-age expression, Favilla makes a case for breaking the rules laid out by Strunk and White: A world without "whom," she argues, is a world with more room for writing that's clear, timely, pleasurable, and politically aware. Featuring priceless emoji strings, sidebars, quizzes, and style debates among the most lovable word nerds in the digital media world--of which Favilla is queen--*A World Without "Whom"* is essential for readers and writers of virtually everything: news articles, blog posts, tweets, texts, emails, and whatever comes next . . . so basically everyone. As the sophistication of cyber-attacks increases, understanding how to defend critical infrastructure systems—energy production, water, gas, and other vital systems—becomes more important, and heavily mandated. *Industrial Network Security, Second Edition* arms you with the knowledge you need to understand the vulnerabilities of these distributed supervisory and control systems. The book examines the unique protocols and applications that are the foundation of industrial control systems, and provides clear guidelines for their protection. This how-to guide gives you thorough understanding of the unique challenges facing critical infrastructures, new guidelines and security measures for critical infrastructure protection, knowledge of new and evolving security tools, and pointers on SCADA protocols and security implementation. All-new real-world examples of attacks against control systems, and more diagrams of systems Expanded coverage of protocols such as 61850, Ethernet/IP, CIP, ISA-99, and the evolution to IEC62443 Expanded coverage of Smart Grid security New coverage of signature-based detection, exploit-based vs. vulnerability-based detection, and signature reverse engineering “No one who enjoys mystery can fail to savor this study of a classic case of detection.” —TONY HILLERMAN On the night of September 14, 1935, George Conniff, a town marshal in Pend Oreille County in the state of Washington, was shot to death. A lawman had been killed, yet there seemed to be no uproar, no major investigation. No suspect was brought to trial. More than fifty years later, the sheriff of Pend Oreille County, Tony Bamonte, in pursuit of both justice and a master's degree in history, dug into the files of the Conniff case—by then the oldest open murder case in the United States. Gradually, what started out as an intellectual exercise became an obsession, as Bamonte asked questions that unfolded layer upon layer of

unsavory detail. In Timothy Egan's vivid account, which reads like a thriller, we follow Bamonte as his investigation plunges him back in time to the Depression era of rampant black-market crime and police corruption. We see how the suppressed reports he uncovers and the ambiguous answers his questions evoke lead him to the murder weapon—missing for half a century—and then to the man, an ex-cop, he is convinced was the murderer. Bamonte himself—a logger's son and a Vietnam veteran—had joined the Spokane police force in the late 1960s, a time when increasingly enlightened and educated police departments across the country were shaking off the “dirty cop” stigma. But as he got closer to actually solving the crime, questioning elderly retired members of the force, he found himself more and more isolated, shut out by tight-lipped hostility, and made dramatically aware of the fraternal sin he had committed—breaking the blue code. *Breaking Blue* is a gripping story of cop against cop. But it also describes a collision between two generations of lawmen and two very different moments in our nation's history.

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

The new Oracle Application Server offers a wide range of functionality, including Java runtime and development tools, portal development tools, business intelligence, single sign-on identify management, and much more. It's so powerful and complex, in fact, that many people who use the product (or are considering using it) are familiar with only a portion of the entire range of its capabilities. The choices can be overwhelming. Few people grasp how the larger issues--such as the interplay between components or the various architectural choices in the product--play out in the Oracle Application Server. This new guide provides the perfect introduction to the Oracle Application Server for users of any level. Regardless of which of the server's capabilities you use, you'll benefit from this tightly focused, all-in-one technical overview. It's written for anyone who is concerned with using and managing web servers, doing Java development and deployment, using Oracle's own tools--like Forms and Reports, using or developing for Oracle Portal, or those who use and administer business intelligence, mobile or integration software. Divided into three

concise sections, the book covers server basics, core components, and server functionality. The book leads with the history of Oracle Application Server, its architecture, management, standards, and third-party support for languages and tools such as Java, Perl, and HTTP. The next section covers Oracle's web server, containers for Java web caching, and the server's security features. And finally, the book discusses HTML development, Java development, and Oracle development. Although the book refers mainly to Oracle Application Server 10g, the authors also describe features in earlier product releases where necessary, particularly Oracle9i Application Server. More comprehensible than a large reference and more detailed than a primer, the book provides a foundation for understanding and using Oracle Application Server effectively and efficiently. Readers concentrate on the most important issues and components of the server, focusing primarily on principles rather than syntax. Designed to be the ideal first OracleAS book, Oracle Application Server 10g Essentials offers Oracle application developers and administrators everything they need to know about this powerful server.

Overcome Your Fastest-Growing Security Problem: Internal, Client-Based Attacks Today's most devastating security attacks are launched from within the company, by intruders who have compromised your users' Web browsers, e-mail and chat clients, and other Internet-connected software. Hardening your network perimeter won't solve this problem. You must systematically protect client software and monitor the traffic it generates. **Extrusion Detection** is a comprehensive guide to preventing, detecting, and mitigating security breaches from the inside out. Top security consultant Richard Bejtlich offers clear, easy-to-understand explanations of today's client-based threats and effective, step-by-step solutions, demonstrated against real traffic and data. You will learn how to assess threats from internal clients, instrument networks to detect anomalies in outgoing traffic, architect networks to resist internal attacks, and respond effectively when attacks occur. Bejtlich's **The Tao of Network Security Monitoring** earned acclaim as the definitive guide to overcoming external threats. Now, in **Extrusion Detection**, he brings the same level of insight to defending against today's rapidly emerging internal threats. Whether you're an architect, analyst, engineer, administrator, or IT manager, you face a new generation of security risks. Get this book and protect yourself. Coverage includes **Architecting defensible networks with pervasive awareness: theory, techniques, and tools** **Defending against malicious sites, Internet Explorer exploitations, bots, Trojans, worms, and more** **Dissecting session and full-content data to reveal unauthorized activity** **Implementing effective Layer 3 network access control** **Responding to internal attacks, including step-by-step network forensics** **Assessing your network's current ability to resist internal attacks**

Setting reasonable corporate access policies Detailed case studies, including the discovery of internal and IRC-based bot nets Advanced extrusion detection: from data collection to host and vulnerability enumeration About the Web Site Get book updates and network security news at Richard Bejtlich's popular blog, taosecurity.blogspot.com, and his Web site, www.bejtlich.net. This is the eBook version of the print title. Note that the eBook does not provide access to the practice test software that accompanies the print book. Learn, prepare, and practice for CCNA Cyber Ops SECFND 210-250 exam success with this Cert Guide from Pearson IT Certification, a leader in IT Certification learning. Master CCNA Cyber Ops SECFND 210-250 exam topics Assess your knowledge with chapter-ending quizzes Review key concepts with exam preparation tasks CCNA Cyber Ops SECFND 210-250 Official Cert Guide is a best-of-breed exam study guide. Cisco enterprise security experts Omar Santos, Joseph Muniz, and Stefano De Crescenzo share preparation hints and test-taking tips, helping you identify areas of weakness and improve both your conceptual knowledge and hands-on skills. Material is presented in a concise manner, focusing on increasing your understanding and retention of exam topics. The book presents you with an organized test preparation routine through the use of proven series elements and techniques. Exam topic lists make referencing easy. Chapter-ending Exam Preparation Tasks help you drill on key concepts you must know thoroughly. Review questions help you assess your knowledge, and a final preparation chapter guides you through tools and resources to help you craft your final study plan. Well-regarded for its level of detail, assessment features, and challenging review questions and exercises, this study guide helps you master the concepts and techniques that will allow you to succeed on the exam the first time. The study guide helps you master all the topics on the CCNA Cyber Ops SECFND exam, including: Fundamentals of networking protocols and networking device types Network security devices and cloud services Security principles Access control models Security management concepts and techniques Fundamentals of cryptography and PKI Essentials of Virtual Private Networks (VPNs) Windows-based Analysis Linux /MAC OS X-based Analysis Endpoint security technologies Network and host telemetry Security monitoring operations and challenges Types of attacks and vulnerabilities Security evasion techniques This book provides a first introduction into the field of Information security. Information security is about preserving your data, keeping private data private, making sure only the people who are authorized have access to the data, making sure your data is always there, always the way you left it, keeping your secrets secret, making sure you trust your sources, and comply with government and industry regulations and standards. It is about managing your risks and keeping the business going

when it all goes south. Every new security practitioner should start with this book, which covers the most relevant topics like cloud security, mobile device security and network security and provides a comprehensive overview of what is important in information security. Processes, training strategy, policies, contingency plans, risk management and effectiveness of tools are all extensively discussed.

Security Operations Center Building, Operating, and Maintaining Your SOC The complete, practical guide to planning, building, and operating an effective Security Operations Center (SOC) Security Operations Center is the complete guide to building, operating, and managing Security Operations Centers in any environment. Drawing on experience with hundreds of customers ranging from Fortune 500 enterprises to large military organizations, three leading experts thoroughly review each SOC model, including virtual SOCs. You'll learn how to select the right strategic option for your organization, and then plan and execute the strategy you've chosen. Security Operations Center walks you through every phase required to establish and run an effective SOC, including all significant people, process, and technology capabilities. The authors assess SOC technologies, strategy, infrastructure, governance, planning, implementation, and more. They take a holistic approach considering various commercial and open-source tools found in modern SOCs. This best-practice guide is written for anybody interested in learning how to develop, manage, or improve a SOC. A background in network security, management, and operations will be helpful but is not required. It is also an indispensable resource for anyone preparing for the Cisco SCYBER exam.

- Review high-level issues, such as vulnerability and risk management, threat intelligence, digital investigation, and data collection/analysis
- Understand the technical components of a modern SOC
- Assess the current state of your SOC and identify areas of improvement
- Plan SOC strategy, mission, functions, and services
- Design and build out SOC infrastructure, from facilities and networks to systems, storage, and physical security
- Collect and successfully analyze security data
- Establish an effective vulnerability management practice
- Organize incident response teams and measure their performance
- Define an optimal governance and staffing model
- Develop a practical SOC handbook that people can actually use
- Prepare SOC to go live, with comprehensive transition plans
- React quickly and collaboratively to security incidents
- Implement best practice security operations, including continuous enhancement and improvement

Comprehensive coverage of the new CASP+ exam, with hands-on practice and interactive study tools

The CASP+ CompTIA Advanced Security Practitioner Study Guide: Exam CAS-003, Third Edition, offers invaluable preparation for exam CAS-003. Covering 100 percent of the exam objectives, this book provides expert walk-through

of essential security concepts and processes to help you tackle this challenging exam with full confidence. Practical examples and real-world insights illustrate critical topics and show what essential practices look like on the ground, while detailed explanations of technical and business concepts give you the background you need to apply identify and implement appropriate security solutions. End-of-chapter reviews help solidify your understanding of each objective, and cutting-edge exam prep software features electronic flashcards, hands-on lab exercises, and hundreds of practice questions to help you test your knowledge in advance of the exam. The next few years will bring a 45-fold increase in digital data, and at least one third of that data will pass through the cloud. The level of risk to data everywhere is growing in parallel, and organizations are in need of qualified data security professionals; the CASP+ certification validates this in-demand skill set, and this book is your ideal resource for passing the exam. Master cryptography, controls, vulnerability analysis, and network security Identify risks and execute mitigation planning, strategies, and controls Analyze security trends and their impact on your organization Integrate business and technical components to achieve a secure enterprise architecture CASP+ meets the ISO 17024 standard, and is approved by U.S. Department of Defense to fulfill Directive 8570.01-M requirements. It is also compliant with government regulations under the Federal Information Security Management Act (FISMA). As such, this career-building credential makes you in demand in the marketplace and shows that you are qualified to address enterprise-level security concerns. The CASP+ CompTIA Advanced Security Practitioner Study Guide: Exam CAS-003, Third Edition, is the preparation resource you need to take the next big step for your career and pass with flying colors. GUIDE TO NETWORK SECURITY is a wide-ranging new text that provides a detailed review of the network security field, including essential terminology, the history of the discipline, and practical techniques to manage implementation of network security solutions. It begins with an overview of information, network, and web security, emphasizing the role of data communications and encryption. The authors then explore network perimeter defense technologies and methods, including access controls, firewalls, VPNs, and intrusion detection systems, as well as applied cryptography in public key infrastructure, wireless security, and web commerce. The final section covers additional topics relevant for information security practitioners, such as assessing network security, professional careers in the field, and contingency planning. Perfect for both aspiring and active IT professionals, GUIDE TO NETWORK SECURITY is an ideal resource for students who want to help organizations protect critical information assets and secure their systems and networks, both by recognizing current threats and vulnerabilities, and by

designing and developing the secure systems of the future. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version. Security professionals and administrators now have access to one of the most valuable resources for learning best practices for network perimeter security. *Inside Network Perimeter Security, Second Edition* is your guide to preventing network intrusions and defending against any intrusions that do manage to slip through your perimeter. This acclaimed resource has been updated to reflect changes in the security landscape, both in terms of vulnerabilities and defensive tools. Coverage also includes intrusion prevention systems and wireless security. You will work your way through fortifying the perimeter, designing a secure network, and maintaining and monitoring the security of the network. Additionally, discussion of tools such as firewalls, virtual private networks, routers and intrusion detection systems make *Inside Network Perimeter Security, Second Edition* a valuable resource for both security professionals and GIAC Certified Firewall Analyst certification exam candidates. The image of the dusty, undisturbed archive has been swept away in response to growing interest across disciplines in the materials they house and the desire to find and make meaning through an engagement with those materials. Archival studies scholars and archivists are developing related theoretical frameworks and practices that recognize that the archives are anything but static. Archival deposits are proliferating, and the architects, practitioners, and scholars engaged with them are scarcely able to keep abreast of them. Archives, archival theory, and archival practice are on the move. But what of the archives that were once safely housed and have since been lost, or are under threat? What of the urgency that underscores the appeals made on behalf of these archives? As scholars in this volume argue, archives—their materialization, their preservation, and the research produced about them—are moving in a different way: they are involved in an emotionally engaged and charged process, one that acts equally upon archival subjects and those engaged with them. So too do archives at once represent members of various communities and the fields of study drawn to them. *Moving Archives* grounds itself in the critical trajectory related to what Sara Ahmed calls “affective economies” to offer fresh insights about the process of archiving and approaching literary materials. These economies are not necessarily determined by ethical impulses, although many scholars have called out for such impulses to underwrite current archival practices; rather, they form the crucial affective contexts for the legitimization of archival caches in the present moment and for future use. Security technology convergence, which refers to the incorporation of computing, networking, and communications technologies into electronic physical security systems, was first

introduced in the 1970s with the advent of computer-based access control and alarm systems. As the pace of information technology (IT) advances continued to accelerate, the physical security industry continued to lag behind IT advances by at least two to three years. Security Technology Convergence Insights explores this sometimes problematic convergence of physical security technology and information technology and its impact on security departments, IT departments, vendors, and management. Includes material culled directly from author's column in Security Technology Executive Easy-to-read question and answer format Includes real-world examples to enhance key lessons learned About this Workbook This workbook covers all the information you need to pass the CompTIA Security+ Exam SY0-501 exam. The workbook is designed to take a practical approach to learn with real-life examples and case studies. ?Covers complete CompTIA Security+ Exam SY0-501 blueprint ?Summarized content ?Case Study based approach ?Ready to practice labs on VM ?100% pass guarantee ?Mind maps ?Exam Practice Questions CompTIA Certifications CompTIA is a performance-based certification that helps you develop a career in IT fundament by approving the hands-on skills required to troubleshoot, configure, and manage both wired and wireless networks. CompTIA certifications help individuals build exceptional in Information Technology and enable organizations to form a skilled and confident staff. CompTIA certifications have four IT certification series that different test knowledge standards-from entry level to expert level. CompTIA offers certification programs at the core level to professional level, which begins with the core IT fundamentals, infrastructure, cybersecurity leads to the professional level. About IPSpecialist IPSPECIALIST LTD. IS COMMITTED TO EXCELLENCE AND DEDICATED TO YOUR SUCCESS Our philosophy is to treat our customers like family. We want you to succeed, and we are willing to do anything possible to help you make it happen. We have the proof to back up our claims. We strive to accelerate billions of careers with great courses, accessibility, and affordability. We believe that continuous learning and knowledge evolution are most important things to keep re-skilling and up-skilling the world. Planning and creating a specific goal is where IPSpecialist helps. We can create a career track that suits your visions as well as develop the competencies you need to become a professional Network Engineer. We can also assist you with the execution and evaluation of proficiency level based on the career track you choose, as they are customized to fit your specific goals. We help you STAND OUT from the crowd through our detailed IP training content packages. CompTIA Cybersecurity Analyst (CySA+) CS0-002 Cert Guide is a best-of-breed exam study guide. Expert technology instructor and certification author Troy McMillan shares preparation hints and test-taking tips, helping you

identify areas of weakness and improve both your conceptual knowledge and hands-on skills. Material is presented in a concise manner, focusing on increasing your understanding and retention of exam topics. The book presents you with an organized test-preparation routine through the use of proven series elements and techniques. Exam topic lists make referencing easy. Chapter-ending Exam Preparation Tasks help you drill on key concepts you must know thoroughly. Review questions help you assess your knowledge, and a final preparation chapter guides you through tools and resources to help you craft your final study plan. The companion website contains the powerful Pearson Test Prep practice test software, complete with hundreds of exam-realistic questions. The assessment engine offers you a wealth of customization options and reporting features, laying out a complete assessment of your knowledge to help you focus your study where it is needed most. Well regarded for its level of detail, assessment features, and challenging review questions and exercises, this CompTIA approved study guide helps you master the concepts and techniques that will enable you to succeed on the exam the first time. The CompTIA approved study guide helps you master all the topics on the CySA+ exam, including:

- Applying environmental reconnaissance
- Analyzing results of network reconnaissance
- Implementing responses and countermeasures
- Implementing vulnerability management processes
- Analyzing scan output and identifying common vulnerabilities
- Identifying incident impact and assembling a forensic toolkit
- Utilizing effective incident response processes
- Performing incident recovery and post-incident response
- Establishing frameworks, policies, controls, and procedures
- Remediating identity- and access-related security issues
- Architecting security and implementing compensating controls
- Implementing application security best practices
- Using cybersecurity tools and technologies

"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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