

# Security Information And Event Management Siem Implementation Network Pro Library 1st Edition By David R Miller Shon Harris Allen Harper Stephen Vandyke 2010 Paperback

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**Biologically Inspired Cognitive Architectures (BICA) for Young Scientists** Oct 30 2019 This book includes papers from the second year of the prestigious First International Early Research Career Enhancement School (FIERCES) series: a successful, new format that puts a school in direct connection with a conference and a social program, all dedicated to young scientists. Reflecting the friendly, social atmosphere of excitement and opportunity, the papers represent a good mixture of cutting-edge research focused on advances towards the most inspiring challenges of our time and first ambitious attempts at major challenges by as yet unknown, talented young scientists. In this second year of FIERCES, the BICA Challenge (to replicate all the essential aspects of the human mind in the digital environment) meets the Cybersecurity Challenge (to protect all the essential assets of the human mind in the digital environment), which is equally important in our age. As a result, the book fosters lively discussions on today's hot topics in science and technology, and stimulates the emergence of new cross-disciplinary, cross-generation and cross-cultural collaboration. FIERCES 2017, or the First International Early Research Career Enhancement School on Biologically Inspired Cognitive Architectures and Cybersecurity, was held on August 1-5 at the Baltshug Kempinski in Moscow, Russia.

**IBM QRadar Version 7.3 Planning and Installation Guide** Mar 28 2022 With the advances of technology and the reoccurrence of data leaks, cyber security is a bigger challenge than ever before. Cyber attacks evolve as quickly as the technology itself, and hackers are finding more innovative ways to break security controls to access confidential data and to interrupt services. Hackers reinvent themselves using new technology features as a tool to expose companies and individuals. Therefore, cyber security cannot be reactive but must go a step further by implementing proactive security controls that protect one of the most important assets of every organization: the company's information. This IBM® Redbooks® publication provides information about implementing IBM QRadar® for Security Intelligence and Event Monitoring (SIEM) and protecting an organization's networks through a sophisticated technology, which permits a proactive security posture. It is divided in to the following major sections to facilitate the integration of QRadar with any network architecture: Chapter 2, "Before the installation" on page 3 provides a review of important requirements before the installation of the product. Chapter 3, "Installing IBM QRadar V7.3" on page 57 provides step-by-step procedures to guide you through the installation process. Chapter 4, "After the installation" on page 77 helps you to configure additional features and perform checks after the product is installed. QRadar is an IBM Security prime product that is designed to be integrated with corporate network devices to keep a real-time monitoring of security events through a centralized console. Through this book, any network or security administrator can understand the product's features and benefits.

**IBM Security Solutions Architecture for Network, Server and Endpoint** Dec 01 2019 Threats come from a variety of sources. Insider threats, as well as malicious hackers, are not only difficult to detect and prevent, but many times the authors of these threats are using resources without anybody being aware that those threats are there. Threats would not be harmful if there were no vulnerabilities that could be exploited. With IT environments becoming more complex every day, the challenges to keep an eye on all potential weaknesses are skyrocketing. Smart methods to detect threats and vulnerabilities, as well as highly efficient approaches to analysis, mitigation, and remediation, become necessary to counter a growing number of attacks against networks, servers, and endpoints in every organization. In this IBM® Redbooks® publication, we examine the aspects of the holistic Threat and Vulnerability Management component in the Network, Server and Endpoint domain of the IBM Security Framework. We explain the comprehensive solution approach, identify business drivers and issues, and derive corresponding functional and technical requirements, which enables us to choose and create matching security solutions. We discuss IBM Security Solutions for Network, Server and Endpoint to effectively counter threats and attacks using a range of protection technologies and service offerings. Using two customer scenarios, we apply the solution design approach and show how to address the customer requirements by identifying the corresponding IBM service and software products.

**Intel Trusted Execution Technology for Server Platforms** Jun 06 2020 "This book is a must have resource guide for anyone who wants to ... implement TXT within their environments. I wish we had this guide when our engineering teams were implementing TXT on our solution platforms!" John McAuley, EMC Corporation "This book details innovative technology that provides significant benefit to both the cloud consumer and the cloud provider when working to meet the ever increasing requirements of trust and control in the cloud." Alex Rodriguez, Expedient Data Centers "This

book is an invaluable reference for understanding enhanced server security, and how to deploy and leverage computing environment trust to reduce supply chain risk.” Pete Nicoletti. Virtustream Inc. Intel® Trusted Execution Technology (Intel TXT) is a new security technology that started appearing on Intel server platforms in 2010. This book explains Intel Trusted Execution Technology for Servers, its purpose, application, advantages, and limitations. This book guides the server administrator / datacenter manager in enabling the technology as well as establishing a launch control policy that he can use to customize the server’s boot process to fit the datacenter’s requirements. This book explains how the OS (typically a Virtual Machine Monitor or Hypervisor) and supporting software can build on the secure facilities afforded by Intel TXT to provide additional security features and functions. It provides examples how the datacenter can create and use trusted pools. With a foreword from Albert Caballero, the CTO at Trapezoid.

**Distributed Sensing and Intelligent Systems** May 06 2020 This book is the proceeding of the 1st International Conference on Distributed Sensing and Intelligent Systems (ICDSIS2020) which will be held in The National School of Applied Sciences of Agadir, Ibn Zohr University, Agadir, Morocco on February 01-03, 2020. ICDSIS2020 is co-organized by Computer Vision and Intelligent Systems Lab, University of North Texas, USA as a scientific collaboration event with The National School of Applied Sciences of Agadir, Ibn Zohr University. ICDSIS2020 aims to foster students, researchers, academicians and industry persons in the field of Computer and Information Science, Intelligent Systems, and Electronics and Communication Engineering in general. The volume collects contributions from leading experts around the globe with the latest insights on emerging topics, and includes reviews, surveys, and research chapters covering all aspects of distributed sensing and intelligent systems. The volume is divided into 5 key sections: Distributed Sensing Applications; Intelligent Systems; Advanced theories and algorithms in machine learning and data mining; Artificial intelligence and optimization, and application to Internet of Things (IoT); and Cybersecurity and Secure Distributed Systems. This conference proceeding is an academic book which can be read by students, analysts, policymakers, and regulators interested in Distributed Sensing, Smart Network approaches, Smart Cities, IoT Applications, and Intelligent Applications. It is written in plain and easy language, and describes new concepts when they appear first so that a reader without prior background of the field finds it readable. The book is primarily intended for research students in sensor networks and IoT applications (including intelligent information systems, and smart sensors applications), academics in higher education institutions including universities and vocational colleges, policy makers and legislators.

**Implementing Reverse Engineering** Sep 29 2019 More practical less theory KEY FEATURES ● In-depth practical demonstration with multiple examples of reverse engineering concepts. ● Provides a step-by-step approach to reverse engineering, including assembly instructions. ● Helps security researchers to crack application code and logic using reverse engineering open source tools. ● Reverse engineering strategies for simple-to-complex applications like Wannacry ransomware and Windows calculator. DESCRIPTION The book ‘Implementing Reverse Engineering’ begins with a step-by-step explanation of the fundamentals of reverse engineering. You will learn how to use reverse engineering to find bugs and hacks in real-world applications. This book is divided into three sections. The first section is an exploration of the reverse engineering process. The second section explains reverse engineering of applications, and the third section is a collection of real-world use-cases with solutions. The first section introduces the basic concepts of a computing system and the data building blocks of the computing system. This section also includes open-source tools such as CFF Explorer, Ghidra, Cutter, and x32dbg. The second section goes over various reverse engineering practicals on various applications to give users hands-on experience. In the third section, reverse engineering of Wannacry ransomware, a well-known Windows application, and various exercises are demonstrated step by step. In a very detailed and step-by-step manner, you will practice and understand different assembly instructions, types of code calling conventions, assembly patterns of applications with the printf function, pointers, array, structure, scanf, strcpy function, decision, and loop control structures. You will learn how to use open-source tools for reverse engineering such as portable executable editors, disassemblers, and debuggers. WHAT YOU WILL LEARN ● Understand different code calling conventions like CDECL, STDCALL, and FASTCALL with practical illustrations. ● Analyze and break WannaCry ransomware using Ghidra. ● Using Cutter, reconstruct application logic from the assembly code. ● Hack the Windows calculator to modify its behavior. WHO THIS BOOK IS FOR This book is for cybersecurity researchers, bug bounty hunters, software developers, software testers, and software quality assurance experts who want to perform reverse engineering for advanced security from attacks. Interested readers can also be from high schools or universities (with a Computer Science background). Basic programming knowledge is helpful but not required. TABLE OF CONTENTS 1. Impact of Reverse Engineering 2. Understanding Architecture of x86 machines 3. Up and Running with Reverse Engineering tools 4. Walkthrough on Assembly Instructions 5. Types of Code Calling Conventions 6. Reverse Engineering Pattern of Basic Code 7. Reverse Engineering Pattern of the printf() Program 8. Reverse Engineering Pattern of the Pointer Program 9. Reverse Engineering Pattern of the Decision Control Structure 10. Reverse Engineering Pattern of the Loop Control Structure 11. Array Code Pattern in Reverse Engineering 12. Structure Code Pattern in Reverse Engineering 13. Scnaf Program Pattern in Reverse Engineering 14. strcpy Program Pattern in Reverse Engineering 15. Simple Interest Code Pattern in Reverse Engineering 16. Breaking Wannacry Ransomware with Reverse Engineering 17. Generate Pseudo Code from the Binary File 18. Fun with Windows Calculator Using Reverse Engineering

**Enabling the New Era of Cloud Computing: Data Security, Transfer, and Management** Mar 16 2021 Cloud computing is becoming the next revolution in the IT industry; providing central storage for internet data and services that have the potential to bring data transmission performance, security and privacy, data deluge, and inefficient architecture to the next level. Enabling the New Era of Cloud Computing: Data Security, Transfer, and Management discusses cloud computing as an emerging technology and its critical role in the IT industry upgrade and economic development in the future. This book is an essential resource for business decision makers, technology investors, architects and engineers, and cloud consumers interested in the cloud computing future.

**Security Operations Center - SIEM Use Cases and Cyber Threat Intelligence** Dec 25 2021 Security analytics can be defined as the process of continuously monitoring and analyzing all the activities in your enterprise network to ensure the minimal number of occurrences of security breaches. Security Analyst is the individual that is qualified to perform the functions necessary to accomplish the security monitoring goals of the organization. This book is intended to improve the ability of a security analyst to perform their day to day work functions in a more professional manner. Deeper knowledge of tools, processes and technology is needed for this. A firm understanding of all the domains of this book is going to be vital in achieving the desired skill set to become a professional security analyst. The attempt of this book is to address the problems associated with the content development (use cases and correlation rules) of SIEM deployments. The term "Cyber Threat Intelligence" has gained considerable interest in the Information Security community over the past few years. The main purpose of implementing a Cyber threat intelligence (CTI) program is to prepare businesses to gain awareness of cyber threats and implement adequate defenses before disaster strikes. Threat Intelligence is the knowledge that helps Enterprises make informed decisions about defending against current and future security threats. This book is a complete practical guide to understanding, planning and building an effective Cyber Threat Intelligence program within an organization. This book is a must read for any Security or IT professional with mid to advanced level of skills. The book provides insights that can be leveraged on in conversations with your management and decision makers to get your organization on the path to building an effective CTI program.

**Deployment Guide for InfoSphere Guardium** Jun 18 2021 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.

**Crafting the InfoSec Playbook** Feb 24 2022 Any good attacker will tell you that expensive security monitoring and prevention tools aren't enough to keep you secure. This practical book demonstrates a data-centric approach to distilling complex security monitoring, incident response, and threat analysis ideas into their most basic elements. You'll learn how to develop your own threat intelligence and incident detection strategy, rather than depend on security tools alone. Written by members of Cisco's Computer Security Incident Response Team, this book shows IT and information security professionals how to create an InfoSec playbook by developing strategy, technique, and architecture. Learn incident response fundamentals—and the importance of getting back to basics Understand threats you face and what you should be protecting Collect, mine, organize, and analyze as many relevant data sources as possible Build your own playbook of repeatable methods for security monitoring and response Learn how to put your plan into action and keep it running smoothly Select the right monitoring and detection tools for your environment Develop queries to help you sort through data and create valuable reports Know what actions to take during the incident response phase

**CISSP All-in-One Exam Guide, Eighth Edition** Mar 04 2020 Publisher's Note: Products purchased from Third Party sellers are not guaranteed by the publisher for quality, authenticity, or access to any online entitlements included with the product. A new edition of Shon Harris' bestselling exam prep guide—fully updated for the new CISSP 2018 Common Body of Knowledge Thoroughly updated for the latest release of the Certified Information Systems Security Professional exam, this comprehensive resource covers all exam domains, as well as the new 2018 CISSP Common Body of Knowledge developed by the International Information Systems Security Certification Consortium (ISC)2®. CISSP All-in-One Exam Guide, Eighth Edition features learning objectives at the beginning of each chapter, exam tips, practice questions, and in-depth explanations. Written by leading experts in information security certification and training, this completely up-to-date self-study system helps you pass the exam with ease and also serves as an essential on-the-job reference. Covers all 8 CISSP domains: •Security and risk management•Asset security•Security architecture and engineering•Communication and network security•Identity and access management•Security assessment and testing•Security operations•Software development security Digital content includes: •1400+ practice questions, including new hot spot and drag-and-drop questions•Flashcards

**The Tao of Network Security Monitoring** Apr 04 2020 "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.

**Mastering Windows Security and Hardening** Oct 23 2021 Enhance Windows security and protect your systems and servers from various cyber attacks Key Features Protect your device using a zero-trust approach and advanced security techniques Implement efficient security measures using Microsoft Intune, Configuration Manager, and Azure solutions Understand how to create cyber-threat defense solutions effectively Book Description Are you looking for effective ways to protect Windows-based systems from being compromised by unauthorized users? *Mastering Windows Security and Hardening* is a detailed guide that helps you gain expertise when implementing efficient security measures and creating robust defense solutions. We will begin with an introduction to Windows security fundamentals, baselining, and the importance of building a baseline for an organization. As you advance, you will learn how to effectively secure and harden your Windows-based system, protect identities, and even manage access. In the concluding chapters, the book will take you through testing, monitoring, and security operations. In addition to this, you'll be equipped with the tools you need to ensure compliance and continuous monitoring through security operations. By the end of this book, you'll have developed a full understanding of the processes and tools involved in securing and hardening your Windows environment. What you will learn Understand baselining and learn the best practices for building a baseline Get to grips with identity management and access management on Windows-based systems Delve into the device administration and remote management of Windows-based systems Explore security tips to harden your Windows server and keep clients secure Audit, assess, and test to ensure controls are successfully applied and enforced Monitor and report activities to stay on top of vulnerabilities Who this book is for This book is for system administrators, cybersecurity and technology professionals, solutions architects, or anyone interested in learning how to secure their Windows-based systems. A basic understanding of Windows security concepts, Intune, Configuration Manager, Windows PowerShell, and Microsoft Azure will help you get the best out of this book.

**Gray Hat Hacking: The Ethical Hacker's Handbook, Fifth Edition** Nov 11 2020 Cutting-edge techniques for finding and fixing critical security flaws Fortify your network and avert digital catastrophe with proven strategies from a team of security experts. Completely updated and featuring 13 new chapters, *Gray Hat Hacking, The Ethical Hacker's Handbook, Fifth Edition* explains the enemy's current weapons, skills, and tactics and offers field-tested remedies, case studies, and ready-to-try testing labs. Find out how hackers gain access, overtake network devices, script and inject malicious code, and plunder Web applications and browsers. Android-based exploits, reverse engineering techniques, and cyber law are thoroughly covered in this state-of-the-art resource. And the new topic of exploiting the Internet of things is introduced in this edition. •Build and launch spoofing exploits with Ettercap •Induce error conditions and crash software using fuzzers •Use advanced reverse engineering to exploit Windows and Linux software •Bypass Windows Access Control and memory protection schemes •Exploit web applications with Padding Oracle Attacks •Learn the use-after-free technique used in recent zero days •Hijack web browsers with advanced XSS attacks •Understand ransomware and how it takes control of your desktop •Dissect Android malware with JEB and DAD decompilers •Find one-day vulnerabilities with binary diffing •Exploit wireless systems with Software Defined Radios (SDR) •Exploit Internet of things devices •Dissect and exploit embedded devices •Understand bug bounty programs •Deploy next-generation honeypots •Dissect ATM malware and analyze common ATM attacks •Learn the business side of ethical hacking

**Information Security Handbook** May 18 2021 Implement information security effectively as per your organization's needs. About This Book Learn to build your own information security framework, the best fit for your organization Build on the concepts of threat modeling, incidence response, and security analysis Practical use cases and best practices for information security Who This Book Is For This book is for security analysts and professionals who deal with security mechanisms in an organization. If you are looking for an end to end guide on information security and risk analysis with no prior knowledge of this domain, then this book is for you. What You Will Learn Develop your own information security framework

Build your incident response mechanism Discover cloud security considerations Get to know the system development life cycle Get your security operation center up and running Know the various security testing types Balance security as per your business needs Implement information security best practices In Detail Having an information security mechanism is one of the most crucial factors for any organization. Important assets of organization demand a proper risk management and threat model for security, and so information security concepts are gaining a lot of traction. This book starts with the concept of information security and shows you why it's important. It then moves on to modules such as threat modeling, risk management, and mitigation. It also covers the concepts of incident response systems, information rights management, and more. Moving on, it guides you to build your own information security framework as the best fit for your organization. Toward the end, you'll discover some best practices that can be implemented to make your security framework strong. By the end of this book, you will be well-versed with all the factors involved in information security, which will help you build a security framework that is a perfect fit your organization's requirements. Style and approach This book takes a practical approach, walking you through information security fundamentals, along with information security best practices.

**Guide to Computer Security Log Management** Apr 28 2022 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.

**CISSP All-in-One Exam Guide, Eighth Edition** Aug 28 2019 A new edition of Shon Harris' bestselling exam prep guide—fully updated for the new CISSP 2018 Common Body of Knowledge This effective self-study guide fully prepares you for the challenging CISSP exam and offers 100% coverage of all exam domains. This edition has been thoroughly revised to cover the new CISSP 2018 Common Body of Knowledge, hot spot and drag and drop question formats, and more. CISSP All-in-One Exam Guide, Eighth Edition features hands-on exercises as well as "Notes," "Tips," and "Cautions" that provide real-world insight and call out potentially harmful situations. Each chapter features learning objectives, exam tips, and practice questions with in-depth answer explanations. Beyond exam prep, the guide also serves as an ideal on-the-job reference for IT security professionals. •Fully updated to cover 2018 exam objectives and question formats•Digital content includes access to the Total Tester test engine with 1500 practice questions, and flashcards•Serves as an essential on-the-job-reference

**Enterprise Mobility with App Management, Office 365, and Threat Mitigation** Sep 09 2020 Enable employees to be productive and access data from any location or device Protect both corporate assets and employee privacy, so your people can be fully productive from any device, anywhere. Learn how to use Microsoft Intune to manage applications to satisfy your unique requirements, make the most of Mobile Device Management (MDM) for Office 365, and defend on-premises resources with Microsoft Advanced Threat Analytics (ATA). Plan, deploy, and deliver complete enterprise mobility while improving security Choose the right Microsoft enterprise mobility solution for your organization Protect apps and data with Microsoft Intune Mobile Application Management (MAM) Identify suspicious user or device activity in hybrid cloud/on-premises environments Prepare for and successfully implement Microsoft ATA Flexibly manage diverse mobile devices with MDM for Office 365 Configure access, define policies, enroll mobile devices, and manage compliance

**Cloud Security and Privacy** Dec 13 2020 You may regard cloud computing as an ideal way for your company to control IT costs, but do you know how private and secure this service really is? Not many people do. With Cloud Security and Privacy, you'll learn what's at stake when you trust your data to the cloud, and what you can do to keep your virtual infrastructure and web applications secure. Ideal for IT staffers, information security and privacy practitioners, business managers, service providers, and investors alike, this book offers you sound advice from three well-known authorities in the tech security world. You'll learn detailed information on cloud computing security that-until now-has been sorely lacking. Review the current state of data security and storage in the cloud, including confidentiality, integrity, and availability Learn about the identity and access management (IAM) practice for authentication, authorization, and auditing of the users accessing cloud services Discover which security management frameworks and standards are relevant for the cloud Understand the privacy aspects you need to consider in the cloud, including how they compare with traditional computing models Learn the importance of audit and compliance functions within the cloud, and the various standards and frameworks to consider Examine security delivered as a service-a different facet of cloud security

**The Practice of Network Security Monitoring** Jan 26 2022 Network security is not simply about building impenetrable walls—determined attackers will eventually overcome traditional defenses. The most effective computer security strategies integrate network security monitoring (NSM): the collection and analysis of data to help you detect and respond to intrusions. In The Practice of Network Security Monitoring, Mandiant CSO Richard Bejtlich shows you how to use NSM to add a robust layer of protection around your networks—no prior experience required. To help you avoid costly and inflexible solutions, he teaches you how to deploy, build, and run an NSM operation using open source software and vendor-neutral tools. You'll learn how to: -Determine where to deploy NSM platforms, and size them for the monitored networks -Deploy stand-alone or distributed NSM installations -Use command line and graphical packet analysis tools, and NSM consoles -Interpret network evidence from server-side and client-side intrusions -Integrate threat intelligence into NSM software to identify sophisticated adversaries There's no foolproof way to keep attackers out of your network. But when they get in, you'll be prepared. The Practice of Network Security Monitoring will show you how to build a security net to detect, contain, and control them. Attacks are inevitable, but losing sensitive data shouldn't be.

**Advances in Computer Science and Ubiquitous Computing** Jun 26 2019 This book presents the combined proceedings of the 11th International Conference on Computer Science and its Applications (CSA 2019) and the 14th KIPS International Conference on Ubiquitous Information Technologies and Applications (CUTE 2019), both held in Macau, China, December 18-20, 2019. The aim of these two meetings was to promote discussion and interaction among academics, researchers and professionals in the field of ubiquitous computing technologies. These proceedings reflect the state of the art in the development of computational methods, involving theory, algorithms, numerical simulation, error and uncertainty analysis and novel applications of new processing techniques in engineering, science and other disciplines related to ubiquitous computing.

**Artificial Intelligence for Big Data** Aug 01 2022 Build next-generation Artificial Intelligence systems with Java Key Features Implement AI techniques to build smart applications using DeepLearning4j Perform big data analytics to derive quality insights using Spark MLlib Create self-learning systems using neural networks, NLP, and reinforcement learning Book Description In this age of big data, companies have larger amount of consumer data than ever before, far more than what the current technologies can ever hope to keep up with. However, Artificial Intelligence closes the gap by moving past human limitations in order to analyze data. With the help of Artificial Intelligence for big data, you will learn to use Machine Learning algorithms such as k-means, SVM, RBF, and regression to perform advanced data analysis. You will understand the current status of Machine and Deep Learning techniques to work on Genetic and Neuro-Fuzzy algorithms. In addition, you will explore how to develop Artificial Intelligence algorithms to learn from data, why they are necessary, and how they can help solve real-world problems. By the end of this book, you'll have learned how to implement various Artificial Intelligence algorithms for your big data systems and integrate them into your product offerings such as reinforcement learning, natural language processing, image recognition, genetic algorithms, and fuzzy logic systems. What you will learn Manage Artificial Intelligence techniques for big data with Java Build smart systems to analyze data for enhanced customer experience Learn to use Artificial Intelligence frameworks for big data Understand complex problems with algorithms and Neuro-Fuzzy systems Design stratagems to leverage data using Machine Learning process Apply Deep Learning techniques to prepare data for modeling Construct models that learn from data using open source tools Analyze big data problems using scalable Machine Learning algorithms Who this book is for This book is for you if you are a data scientist, big data professional, or novice who has basic knowledge of big data and wish to get proficiency in Artificial Intelligence techniques for big data. Some competence in mathematics is an added advantage in the field of elementary linear algebra and calculus.

Information Security Analytics Aug 21 2021 Information Security Analytics gives you insights into the practice of analytics and, more importantly, how you can utilize analytic techniques to identify trends and outliers that may not be possible to identify using traditional security analysis techniques. Information Security Analytics dispels the myth that analytics within the information security domain is limited to just security incident and event management systems and basic network analysis. Analytic techniques can help you mine data and identify patterns and relationships in any form of security data. Using the techniques covered in this book, you will be able to gain security insights into unstructured big data of any type. The authors of Information Security Analytics bring a wealth of analytics experience to demonstrate practical, hands-on techniques through case studies and using freely-available tools that will allow you to find anomalies and outliers by combining disparate data sets. They also teach you everything you need to know about threat simulation techniques and how to use analytics as a powerful decision-making tool to assess security control and process requirements within your organization. Ultimately, you will learn how to use these simulation techniques to help predict and profile potential risks to your organization. Written by security practitioners, for security practitioners Real-world case studies and scenarios are provided for each analytics technique Learn about open-source analytics and statistical packages, tools, and applications Step-by-step guidance on how to use analytics tools and how they map to the techniques and scenarios provided Learn how to design and utilize simulations for "what-if" scenarios to simulate security events and processes Learn how to utilize big data techniques to assist in incident response and intrusion analysis

CISSP All-in-One Exam Guide, Ninth Edition Nov 23 2021 A new edition of Shon Harris' bestselling exam prep guide—fully updated for the 2021 version of the CISSP exam Thoroughly updated for the latest release of the Certified Information Systems Security Professional exam, this comprehensive resource covers all objectives in the 2021 CISSP exam developed by the International Information Systems Security Certification Consortium (ISC)2®. CISSP All-in-One Exam Guide, Ninth Edition features learning objectives at the beginning of each chapter, exam tips, practice questions, and in-depth explanations. Written by leading experts in information security certification and training, this completely up-to-date self-study system helps you pass the exam with ease and also serves as an essential on-the-job reference. Covers all 8 CISSP domains: Security and risk management Asset security Security architecture and engineering Communication and network security Identity and access management (IAM) Security assessment and testing Security operations Software development security Online content includes: 1400+ practice exam questions Graphical question quizzes Test engine that provides full-length practice exams and customizable quizzes by chapter or exam domain Access to Flash cards

Logging and Log Management May 30 2022 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

IBM Software for SAP Solutions Apr 16 2021 SAP is a market leader in enterprise business application software. SAP solutions provide a rich set of composable application modules, and configurable functional capabilities that are expected from a comprehensive enterprise business application software suite. In most cases, companies that adopt SAP software remain heterogeneous enterprises running both SAP and non-SAP systems to support their business processes. Regardless of the specific scenario, in heterogeneous enterprises most SAP implementations must be integrated with a variety of non-SAP enterprise systems: Portals Messaging infrastructure Business process management (BPM) tools Enterprise Content Management (ECM) methods and tools Business analytics (BA) and business intelligence (BI) technologies Security Systems of record Systems of engagement The tooling included with SAP software addresses many needs for creating SAP-centric environments. However, the classic approach to implementing SAP functionality generally leaves the business with a rigid solution that is difficult and expensive to change and enhance. When SAP software is used in a large, heterogeneous enterprise environment, SAP clients face the dilemma of selecting the correct set of tools and platforms to implement SAP functionality, and to integrate the SAP solutions with non-SAP systems. This IBM® Redbooks® publication explains the value of integrating IBM software with SAP solutions. It describes how to enhance and extend pre-built capabilities in SAP software with best-in-class IBM enterprise software, enabling clients to maximize return on investment (ROI) in their SAP investment and achieve a balanced enterprise architecture approach. This book describes IBM Reference Architecture for SAP, a prescriptive blueprint for using IBM software in SAP solutions. The reference architecture is focused on defining the use of IBM software with SAP, and is not intended to address the internal aspects of SAP components. The chapters of this book provide a specific reference architecture for many of the architectural domains that are each important for a large enterprise to establish common strategy, efficiency, and balance. The majority of the most important architectural domain topics, such as integration, process optimization, master data management, mobile access, Enterprise Content Management, business intelligence, DevOps, security, systems monitoring, and so on, are covered in the book. However, there are several other architectural domains which are not included in the book. This is not to imply that these other architectural domains are not important or are less important, or that IBM does not offer a solution to address them. It is only reflective of time constraints, available resources, and the complexity of assembling a book on an extremely broad topic. Although more content could have been added, the authors feel confident that the scope of architectural material that has been included should provide organizations with a fantastic head start in defining their own enterprise reference architecture for many of the important architectural domains, and it is hoped that this book provides great value to those reading it. This IBM Redbooks publication is targeted to the following audiences: Client decision makers and solution architects leading enterprise transformation projects and wanting to gain further insight so that they can benefit from the integration of IBM software in large-scale SAP projects. IT architects and consultants integrating IBM technology with SAP solutions.

Access Control and Identity Management Feb 01 2020 Revised and updated with the latest data from this fast paced field, Access Control, Authentication, and Public Key Infrastructure defines the components of access control, provides a business framework for implementation, and discusses legal requirements that impact access control programs.

**Defensive Security Handbook** Feb 12 2021 Despite the increase of high-profile hacks, record-breaking data leaks, and ransomware attacks, many organizations don't have the budget to establish or outsource an information security (InfoSec) program, forcing them to learn on the job. For companies obliged to improvise, this pragmatic guide provides a security-101 handbook with steps, tools, processes, and ideas to help you drive maximum-security improvement at little or no cost. Each chapter in this book provides step-by-step instructions for dealing with a specific issue, including breaches and disasters, compliance, network infrastructure and password management, vulnerability scanning, and penetration testing, among others. Network engineers, system administrators, and security professionals will learn tools and techniques to help improve security in sensible, manageable chunks. Learn fundamentals of starting or redesigning an InfoSec program Create a base set of policies, standards, and procedures Plan and design incident response, disaster recovery, compliance, and physical security Bolster Microsoft and Unix systems, network infrastructure, and password management Use segmentation practices and designs to compartmentalize your network Explore automated process and tools for vulnerability management Securely develop code to reduce exploitable errors Understand basic penetration testing concepts through purple teaming Delve into IDS, IPS, SOC, logging, and monitoring

**Microsoft Azure Sentinel Sep 02 2022** Microsoft Azure Sentinel Plan, deploy, and operate Azure Sentinel, Microsoft's advanced cloud-based SIEM Microsoft's cloud-based Azure Sentinel helps you fully leverage advanced AI to automate threat identification and response - without the complexity and scalability challenges of traditional Security Information and Event Management (SIEM) solutions. Now, three of Microsoft's leading experts review all it can do, and guide you step by step through planning, deployment, and daily operations. Leveraging in-the-trenches experience supporting early customers, they cover everything from configuration to data ingestion, rule development to incident management... even proactive threat hunting to disrupt attacks before you're exploited. Three of Microsoft's leading security operations experts show how to:

- Use Azure Sentinel to respond to today's fast-evolving cybersecurity environment, and leverage the benefits of its cloud-native architecture
- Review threat intelligence essentials: attacker motivations, potential targets, and tactics, techniques, and procedures
- Explore Azure Sentinel components, architecture, design considerations, and initial configuration
- Ingest alert log data from services and endpoints you need to monitor
- Build and validate rules to analyze ingested data and create cases for investigation
- Prevent alert fatigue by projecting how many incidents each rule will generate
- Help Security Operation Centers (SOCs) seamlessly manage each incident's lifecycle
- Move towards proactive threat hunting: identify sophisticated threat behaviors and disrupt cyber kill chains before you're exploited
- Do more with data: use programmable Jupyter notebooks and their libraries for machine learning, visualization, and data analysis
- Use Playbooks to perform Security Orchestration, Automation and Response (SOAR)
- Save resources by automating responses to low-level events
- Create visualizations to spot trends, identify or clarify relationships, and speed decisions
- Integrate with partners and other third-parties, including Fortinet, AWS, and Palo Alto

**Implementing the ISO/IEC 27001:2013 ISMS Standard Jul 08 2020** Authored by an internationally recognized expert in the field, this expanded, timely second edition addresses all the critical information security management issues needed to help businesses protect their valuable assets. Professionals learn how to manage business risks, governance and compliance. This updated resource provides a clear guide to ISO/IEC 27000 security standards and their implementation, focusing on the recent ISO/IEC 27001. Moreover, readers are presented with practical and logical information on standard accreditation and certification. From information security management system (ISMS) business context, operations, and risk, to leadership and support, this invaluable book is your one-stop resource on the ISO/IEC 27000 series of standards.

**Security Information and Event Management (SIEM) Implementation Nov 04 2022** 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

**Security Operations Center Jan 14 2021** 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

**Industrial Network Security Oct 11 2020** 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

**Learn Azure Sentinel Jan 02 2020** Understand how to set up, configure, and use Azure Sentinel to provide security incident and event management services for your environment Key FeaturesSecure your network, infrastructure, data, and applications on Microsoft Azure effectivelyIntegrate artificial intelligence, threat analysis, and automation for optimal security solutionsInvestigate possible security breaches and gather forensic evidence to prevent modern cyber threatsBook Description Azure Sentinel is a Security Information and Event Management (SIEM) tool developed by Microsoft to integrate cloud security and artificial intelligence (AI). Azure Sentinel not only helps clients identify security issues in their environment, but also uses automation to help resolve these issues. With this book, you'll implement Azure Sentinel and understand how it can help find security incidents in your environment with integrated artificial intelligence, threat analysis, and built-in and community-driven logic. This book starts with an introduction to Azure Sentinel and Log Analytics. You'll get to grips with data collection and management, before learning how to create effective Azure Sentinel queries to detect anomalous behaviors and patterns of activity. As you make progress, you'll understand how to develop solutions that automate the responses required to handle security incidents. Finally, you'll grasp the latest developments in security, discover techniques to enhance your cloud security architecture, and explore how you can contribute to the security community. By the end of this book, you'll have learned how to implement Azure Sentinel to fit your needs and be able to protect your environment from cyber threats and other security issues. What you will learnUnderstand how to design and build a security operations centerDiscover the key components of a cloud security architectureManage and investigate Azure Sentinel incidentsUse playbooks to automate incident responsesUnderstand how to set up Azure Monitor Log Analytics and Azure SentinelIngest data into Azure Sentinel from the cloud and on-premises devicesPerform threat hunting in Azure SentinelWho this book is for This book is for solution architects and system administrators who are responsible for implementing new solutions in their infrastructure. Security analysts who need to monitor and provide immediate security solutions or threat hunters looking to learn how to use Azure

Sentinel to investigate possible security breaches and gather forensic evidence will also benefit from this book. Prior experience with cloud security, particularly Azure, is necessary.

**Information Security Management Handbook, Sixth Edition** Sep 21 2021 Every year, in response to new technologies and new laws in different countries and regions, there are changes to the fundamental knowledge, skills, techniques, and tools required by all IT security professionals. In step with the lightning-quick, increasingly fast pace of change in the technology field, the Information Security Management Handbook, updated yearly, has become the standard on which all IT security programs and certifications are based. It reflects new updates to the Common Body of Knowledge (CBK) that IT security professionals all over the globe need to know. Captures the crucial elements of the CBK Exploring the ten domains of the CBK, the book explores access control, telecommunications and network security, information security and risk management, application security, and cryptography. In addition, the expert contributors address security architecture and design, operations security, business continuity planning and disaster recovery planning. The book also covers legal regulations, compliance, investigation, and physical security. In this anthology of treatises dealing with the management and technical facets of information security, the contributors examine varied topics such as anywhere computing, virtualization, podslurping, quantum computing, mashups, blue snarfing, mobile device theft, social computing, voting machine insecurity, and format string vulnerabilities. Also available on CD-ROM Safeguarding information continues to be a crucial concern of all IT professionals. As new risks threaten the security of our systems, it is imperative that those charged with protecting that information continually update their armor of knowledge to guard against tomorrow's hackers and software vulnerabilities. This comprehensive Handbook, also available in fully searchable CD-ROM format keeps IT professionals abreast of new developments on the security horizon and reinforces timeless concepts, providing them with the best information, guidance, and counsel they can obtain.

**IT Security Compliance Management Design Guide with IBM Tivoli Security Information and Event Manager** Jul 20 2021 To comply with government and industry regulations, such as Sarbanes-Oxley, Gramm Leach Bliley (GLBA), and COBIT (which can be considered a best-practices framework), organizations must constantly detect, validate, and report unauthorized changes and out-of-compliance actions within the Information Technology (IT) infrastructure. Using the IBM® Tivoli Security Information and Event Manager solution organizations can improve the security of their information systems by capturing comprehensive log data, correlating this data through sophisticated log interpretation and normalization, and communicating results through a dashboard and full set of audit and compliance reporting. In this IBM Redbooks® publication, we discuss the business context of security audit and compliance software for organizations and describe the logical and physical components of IBM Tivoli Security Information and Event Manager. We also present a typical deployment within a business scenario. This book is a valuable resource for security officers, administrators, and architects who want to understand and implement a centralized security audit and compliance solution.

**FISMA and the Risk Management Framework** Jul 28 2019 FISMA and the Risk Management Framework: The New Practice of Federal Cyber Security deals with the Federal Information Security Management Act (FISMA), a law that provides the framework for securing information systems and managing risk associated with information resources in federal government agencies. Comprised of 17 chapters, the book explains the FISMA legislation and its provisions, strengths and limitations, as well as the expectations and obligations of federal agencies subject to FISMA. It also discusses the processes and activities necessary to implement effective information security management following the passage of FISMA, and it describes the National Institute of Standards and Technology's Risk Management Framework. The book looks at how information assurance, risk management, and information systems security is practiced in federal government agencies; the three primary documents that make up the security authorization package: system security plan, security assessment report, and plan of action and milestones; and federal information security-management requirements and initiatives not explicitly covered by FISMA. This book will be helpful to security officers, risk managers, system owners, IT managers, contractors, consultants, service providers, and others involved in securing, managing, or overseeing federal information systems, as well as the mission functions and business processes supported by those systems. Learn how to build a robust, near real-time risk management system and comply with FISMA Discover the changes to FISMA compliance and beyond Gain your systems the authorization they need Designing and Building Security Operations Center Oct 03 2022 Do you know what weapons are used to protect against cyber warfare and what tools to use to minimize their impact? How can you gather intelligence that will allow you to configure your system to ward off attacks? Online security and privacy issues are becoming more and more significant every day, with many instances of companies and governments mishandling (or deliberately misusing) personal and financial data. Organizations need to be committed to defending their own assets and their customers' information. Designing and Building a Security Operations Center will show you how to develop the organization, infrastructure, and capabilities to protect your company and your customers effectively, efficiently, and discreetly. Written by a subject expert who has consulted on SOC implementation in both the public and private sector, Designing and Building a Security Operations Center is the go-to blueprint for cyber-defense. Explains how to develop and build a Security Operations Center Shows how to gather invaluable intelligence to protect your organization Helps you evaluate the pros and cons behind each decision during the SOC-building process

**Microsoft Sentinel in Action** Jun 30 2022 Learn how to set up, configure, and use Microsoft Sentinel to provide security incident and event management services for your multi-cloud environment Key FeaturesCollect, normalize, and analyze security information from multiple data sourcesIntegrate AI, machine learning, built-in and custom threat analyses, and automation to build optimal security solutionsDetect and investigate possible security breaches to tackle complex and advanced cyber threatsBook Description Microsoft Sentinel is a security information and event management (SIEM) tool developed by Microsoft that helps you integrate cloud security and artificial intelligence (AI). This book will teach you how to implement Microsoft Sentinel and understand how it can help detect security incidents in your environment with integrated AI, threat analysis, and built-in and community-driven logic. The first part of this book will introduce you to Microsoft Sentinel and Log Analytics, then move on to understanding data collection and management, as well as how to create effective Microsoft Sentinel queries to detect anomalous behaviors and activity patterns. The next part will focus on useful features, such as entity behavior analytics and Microsoft Sentinel playbooks, along with exploring the new bi-directional connector for ServiceNow. In the next part, you'll be learning how to develop solutions that automate responses needed to handle security incidents and find out more about the latest developments in security, techniques to enhance your cloud security architecture, and explore how you can contribute to the security community. By the end of this book, you'll have learned how to implement Microsoft Sentinel to fit your needs and protect your environment from cyber threats and other security issues. What you will learnImplement Log Analytics and enable Microsoft Sentinel and data ingestion from multiple sourcesTackle Kusto Query Language (KQL) codingDiscover how to carry out threat hunting activities in Microsoft SentinelConnect Microsoft Sentinel to ServiceNow for automated ticketingFind out how to detect threats and create automated responses for immediate resolutionUse triggers and actions with Microsoft Sentinel playbooks to perform automationsWho this book is for You'll get the most out of this book if you have a good grasp on other Microsoft security products and Azure, and are now looking to expand your knowledge to incorporate Microsoft Sentinel. Security experts who use an alternative SIEM tool and want to adopt Microsoft Sentinel as an additional or a replacement service will also find this book useful.

**Designing a HIPAA-Compliant Security Operations Center** Aug 09 2020 Develop a comprehensive plan for building a HIPAA-compliant security operations center, designed to detect and respond to an increasing number of healthcare data breaches and events. Using risk analysis, assessment, and management data combined with knowledge of cybersecurity program maturity, this book gives you the tools you need to operationalize threat intelligence, vulnerability management, security monitoring, and incident response processes to effectively meet the challenges presented by healthcare's current threats. Healthcare entities are bombarded with data. Threat intelligence feeds, news updates, and messages come rapidly and in many forms such as email, podcasts, and more. New vulnerabilities are found every day in applications, operating systems, and databases while older vulnerabilities remain exploitable. Add in the number of dashboards, alerts, and data points each information security tool provides and security teams find themselves swimming in oceans of data and unsure where to focus their energy. There is an urgent need to have a cohesive plan in place to cut through the noise and face these threats. Cybersecurity operations do not require expensive tools or large capital investments. There

are ways to capture the necessary data. Teams protecting data and supporting HIPAA compliance can do this. All that's required is a plan—which author Eric Thompson provides in this book. What You Will Learn Know what threat intelligence is and how you can make it useful Understand how effective vulnerability management extends beyond the risk scores provided by vendors Develop continuous monitoring on a budget Ensure that incident response is appropriate Help healthcare organizations comply with HIPAA Who This Book Is For Cybersecurity, privacy, and compliance professionals working for organizations responsible for creating, maintaining, storing, and protecting patient information.