

ALIENVAULT UNIFIED SECURITY MANAGEMENT

ALIENVAULT UNIFIED SECURITY MANAGEMENT: A CRITICAL ANALYSIS OF ITS IMPACT ON CURRENT TRENDS

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PUBLISHER: CYBERSECURITY INSIGHTS JOURNAL (A HYPOTHETICAL BUT CREDIBLE PUBLISHER, ANALOGOUS TO REPUTABLE JOURNALS LIKE IEEE SECURITY & PRIVACY OR ACM SIGSAC)

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KEYWORDS: ALIENVAULT UNIFIED SECURITY MANAGEMENT, USM, SECURITY INFORMATION AND EVENT MANAGEMENT (SIEM), THREAT INTELLIGENCE, VULNERABILITY MANAGEMENT, SECURITY ORCHESTRATION, AUTOMATION AND RESPONSE (SOAR), CYBERSECURITY, THREAT DETECTION, INCIDENT RESPONSE, CLOUD SECURITY

SUMMARY: THIS ANALYSIS CRITICALLY EXAMINES ALIENVAULT UNIFIED SECURITY MANAGEMENT (USM) WITHIN THE CONTEXT OF EVOLVING CYBERSECURITY THREATS AND TECHNOLOGICAL ADVANCEMENTS. IT EXPLORES USM'S STRENGTHS AND WEAKNESSES, ITS ALIGNMENT WITH CURRENT SECURITY TRENDS LIKE SOAR AND CLOUD SECURITY, AND ITS OVERALL EFFECTIVENESS IN PROVIDING COMPREHENSIVE SECURITY PROTECTION. THE ANALYSIS CONCLUDES BY EVALUATING USM'S PLACE IN THE MODERN CYBERSECURITY LANDSCAPE AND SUGGESTING POTENTIAL AREAS FOR IMPROVEMENT.

1. INTRODUCTION: THE EVOLVING LANDSCAPE OF CYBERSECURITY AND THE ROLE OF ALIENVAULT UNIFIED SECURITY MANAGEMENT

THE CYBERSECURITY LANDSCAPE IS CONSTANTLY EVOLVING, WITH SOPHISTICATED ATTACKS BECOMING MORE FREQUENT AND COMPLEX. ORGANIZATIONS FACE THE DAUNTING TASK OF MANAGING A GROWING NUMBER OF SECURITY TOOLS AND TECHNOLOGIES, OFTEN LEADING TO FRAGMENTED SECURITY POSTURE AND INCREASED OPERATIONAL OVERHEAD. THIS IS WHERE UNIFIED SECURITY MANAGEMENT PLATFORMS, LIKE ALIENVAULT UNIFIED SECURITY MANAGEMENT, AIM TO MAKE A DIFFERENCE. ALIENVAULT USM IS A COMPREHENSIVE SECURITY INFORMATION AND EVENT MANAGEMENT (SIEM) SYSTEM THAT INTEGRATES VARIOUS SECURITY FUNCTIONS INTO A SINGLE PLATFORM. THIS ANALYSIS DELVES INTO THE EFFECTIVENESS OF ALIENVAULT USM IN ADDRESSING THE CHALLENGES OF MODERN CYBERSECURITY, PARTICULARLY IN THE CONTEXT OF CURRENT TRENDS.

2. CORE FEATURES AND FUNCTIONALITY OF ALIENVAULT UNIFIED SECURITY MANAGEMENT

ALIENVAULT USM OFFERS A WIDE RANGE OF FUNCTIONALITIES, INCLUDING VULNERABILITY MANAGEMENT, INTRUSION DETECTION, LOG MANAGEMENT, AND SECURITY INFORMATION AND EVENT MANAGEMENT (SIEM). ITS CORE STRENGTH LIES IN ITS ABILITY TO CONSOLIDATE THESE DISPARATE SECURITY FUNCTIONS INTO A UNIFIED PLATFORM, PROVIDING A CENTRALIZED VIEW OF THE ORGANIZATION'S SECURITY POSTURE. KEY FEATURES INCLUDE:

VULNERABILITY MANAGEMENT: ALIENVAULT USM PROACTIVELY IDENTIFIES AND ASSESSES VULNERABILITIES ACROSS THE ORGANIZATION'S IT INFRASTRUCTURE, PROVIDING ACTIONABLE INSIGHTS FOR REMEDIATION.

INTRUSION DETECTION: IT EMPLOYS VARIOUS TECHNIQUES, INCLUDING SIGNATURE-BASED AND ANOMALY-BASED DETECTION, TO IDENTIFY AND RESPOND TO MALICIOUS ACTIVITIES.

LOG MANAGEMENT: THE PLATFORM CENTRALIZES AND ANALYZES LOG DATA FROM VARIOUS SOURCES, PROVIDING A COMPREHENSIVE AUDIT TRAIL AND FACILITATING THREAT INVESTIGATION.

SECURITY INFORMATION AND EVENT MANAGEMENT (SIEM): ALIENVAULT USM ACTS AS A SIEM, COLLECTING AND CORRELATING SECURITY EVENTS FROM DIVERSE SOURCES, ENABLING FASTER THREAT DETECTION AND RESPONSE.

THREAT INTELLIGENCE: USM INTEGRATES THREAT INTELLIGENCE FEEDS, ENABLING ORGANIZATIONS TO PROACTIVELY IDENTIFY AND MITIGATE EMERGING THREATS.

3. ALIGNMENT WITH CURRENT CYBERSECURITY TRENDS

ALIENVAULT USM ALIGNS WITH SEVERAL CRITICAL CYBERSECURITY TRENDS, INCLUDING:

SECURITY ORCHESTRATION, AUTOMATION AND RESPONSE (SOAR): WHILE NOT A FULLY FLEDGED SOAR PLATFORM, ALIENVAULT USM INCORPORATES AUTOMATION CAPABILITIES, ENABLING FASTER INCIDENT RESPONSE AND REDUCING MANUAL INTERVENTION. ITS INTEGRATION WITH OTHER SECURITY TOOLS ALLOWS FOR SOME LEVEL OF ORCHESTRATION.

CLOUD SECURITY: ALIENVAULT USM CAN BE DEPLOYED IN CLOUD ENVIRONMENTS, PROVIDING CENTRALIZED SECURITY MANAGEMENT FOR CLOUD-BASED RESOURCES. THIS IS CRUCIAL GIVEN THE INCREASING ADOPTION OF CLOUD SERVICES BY ORGANIZATIONS.

THREAT INTELLIGENCE SHARING: THE PLATFORM'S INTEGRATION WITH VARIOUS THREAT INTELLIGENCE FEEDS HELPS ORGANIZATIONS STAY AHEAD OF EMERGING THREATS AND PROACTIVELY MITIGATE RISKS.

4. STRENGTHS AND WEAKNESSES OF ALIENVAULT UNIFIED SECURITY MANAGEMENT

STRENGTHS:

UNIFIED PLATFORM: CONSOLIDATES VARIOUS SECURITY FUNCTIONS INTO A SINGLE PLATFORM, SIMPLIFYING MANAGEMENT AND IMPROVING EFFICIENCY.

COMPREHENSIVE FUNCTIONALITY: PROVIDES A WIDE RANGE OF SECURITY FEATURES, COVERING VULNERABILITY MANAGEMENT, INTRUSION DETECTION, LOG MANAGEMENT, AND SIEM.

EASE OF USE: THE USER INTERFACE IS GENERALLY CONSIDERED INTUITIVE, MAKING IT ACCESSIBLE TO SECURITY PROFESSIONALS WITH VARYING LEVELS OF EXPERTISE.

COST-EFFECTIVENESS: COMPARED TO PURCHASING AND MANAGING MULTIPLE INDIVIDUAL SECURITY TOOLS, ALIENVAULT USM CAN OFFER A MORE COST-EFFECTIVE SOLUTION.

WEAKNESSES:

SCALABILITY: WHILE SCALABLE TO A DEGREE, CHALLENGES MIGHT ARISE WHEN MANAGING EXTREMELY LARGE AND COMPLEX IT INFRASTRUCTURES. PERFORMANCE CAN DEGRADE WITH A MASSIVE INFLUX OF DATA.

CUSTOMIZATION: THE LEVEL OF CUSTOMIZATION MIGHT BE LIMITED COMPARED TO OTHER MORE SPECIALIZED SECURITY TOOLS.

INTEGRATION WITH LEGACY SYSTEMS: INTEGRATION WITH OLDER OR LESS COMMON SYSTEMS MIGHT REQUIRE ADDITIONAL EFFORT AND CONFIGURATION.

REPORTING AND VISUALIZATION: WHILE ADEQUATE, SOME USERS MIGHT FIND THE REPORTING AND VISUALIZATION FEATURES LESS SOPHISTICATED COMPARED TO OTHER ENTERPRISE-GRADE SIEM SOLUTIONS.

5. ALIENVAULT USM'S IMPACT AND ITS FUTURE IN THE CYBERSECURITY LANDSCAPE

ALIENVAULT USM HAS SIGNIFICANTLY IMPACTED THE CYBERSECURITY LANDSCAPE BY OFFERING A UNIFIED AND RELATIVELY COST-EFFECTIVE APPROACH TO SECURITY MANAGEMENT. HOWEVER, THE INCREASINGLY COMPLEX THREAT LANDSCAPE REQUIRES CONTINUOUS EVOLUTION. FUTURE IMPROVEMENTS SHOULD FOCUS ON ENHANCED SOAR CAPABILITIES, IMPROVED SCALABILITY AND PERFORMANCE, AND DEEPER INTEGRATION WITH CLOUD-NATIVE SECURITY SERVICES. THE PLATFORM'S CONTINUED RELEVANCE HINGES ON ITS ABILITY TO ADAPT TO THE EVOLVING NEEDS OF ORGANIZATIONS AND INCORPORATE ADVANCEMENTS IN AI-POWERED THREAT DETECTION AND RESPONSE.

6. CONCLUSION

ALIENVAULT UNIFIED SECURITY MANAGEMENT PROVIDES A VALUABLE SOLUTION FOR ORGANIZATIONS SEEKING A UNIFIED APPROACH TO SECURITY MANAGEMENT. ITS STRENGTHS LIE IN ITS COMPREHENSIVE FUNCTIONALITY, EASE OF USE, AND COST-EFFECTIVENESS. HOWEVER, POTENTIAL LIMITATIONS REGARDING SCALABILITY, CUSTOMIZATION, AND REPORTING NEED TO BE CONSIDERED. ITS FUTURE SUCCESS DEPENDS ON ITS CAPACITY TO EMBRACE EMERGING TECHNOLOGIES AND ADAPT TO THE EVER-EVOLVING LANDSCAPE OF CYBERSECURITY THREATS.

FAQs

1. WHAT IS THE DIFFERENCE BETWEEN ALIENVAULT USM AND OTHER SIEM SOLUTIONS? ALIENVAULT USM DIFFERENTIATES ITSELF BY OFFERING A MORE UNIFIED APPROACH, INTEGRATING MULTIPLE SECURITY FUNCTIONS INTO A SINGLE PLATFORM, WHEREAS SOME SIEM SOLUTIONS FOCUS PRIMARILY ON LOG MANAGEMENT AND EVENT CORRELATION.
1. IS ALIENVAULT USM SUITABLE FOR SMALL BUSINESSES? YES, IT OFFERS A SCALABLE SOLUTION SUITABLE FOR VARIOUS ORGANIZATION SIZES, MAKING IT ACCESSIBLE TO SMALL BUSINESSES AS WELL AS LARGER ENTERPRISES.
1. HOW DOES ALIENVAULT USM HANDLE CLOUD SECURITY? IT CAN BE DEPLOYED IN CLOUD ENVIRONMENTS AND OFFERS FEATURES TO MONITOR AND MANAGE THE SECURITY OF CLOUD-BASED RESOURCES.
1. WHAT KIND OF THREAT INTELLIGENCE DOES ALIENVAULT USM PROVIDE? IT INTEGRATES WITH VARIOUS THREAT INTELLIGENCE FEEDS, PROVIDING INFORMATION ON EMERGING THREATS, VULNERABILITIES, AND MALICIOUS ACTORS.
1. WHAT ARE THE SYSTEM REQUIREMENTS FOR ALIENVAULT USM? THIS DEPENDS ON THE SCALE OF DEPLOYMENT. CHECK THE OFFICIAL ALIENVAULT DOCUMENTATION FOR DETAILED SPECIFICATIONS.
1. HOW DOES ALIENVAULT USM SUPPORT INCIDENT RESPONSE? THE PLATFORM PROVIDES TOOLS FOR THREAT DETECTION, INVESTIGATION, AND RESPONSE, ENABLING FASTER AND MORE EFFICIENT INCIDENT HANDLING.
1. WHAT IS THE COST OF ALIENVAULT USM? PRICING VARIES DEPENDING ON THE FEATURES AND SCALE REQUIRED; IT'S BEST TO CONTACT THE VENDOR DIRECTLY FOR A QUOTE.
1. WHAT IS THE LEVEL OF TECHNICAL EXPERTISE REQUIRED TO MANAGE ALIENVAULT USM? WHILE USER-FRIENDLY, SOME TECHNICAL EXPERTISE IS NECESSARY FOR OPTIMAL CONFIGURATION AND MANAGEMENT.
1. WHAT KIND OF TRAINING AND SUPPORT ARE AVAILABLE FOR ALIENVAULT USM? ALIENVAULT TYPICALLY PROVIDES DOCUMENTATION, TRAINING MATERIALS, AND SUPPORT RESOURCES TO ASSIST USERS.

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The new edition, targeted at a similar readership, will provide more detailed information about the cybersecurity environment and specific threats. It will offer advice on the resources available to build defences and the selection of tools and managed services to achieve enhanced security at acceptable cost. A content sharing partnership has been agreed with major technology provider Alien Vault and the 2017 edition will be a larger book of approximately 250 pages.

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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
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alienvault unified security management: Mastering Cyber Intelligence Jean Nestor M. Dahj, 2022-04-29 Develop the analytical skills to effectively safeguard your organization by enhancing defense mechanisms, and become a proficient threat intelligence analyst to help strategic teams in making informed decisions
Key Features
Build the analytics skills and practices you need for analyzing, detecting, and preventing cyber threats
Learn how to perform intrusion analysis using the cyber threat intelligence (CTI) process
Integrate threat intelligence into your current security infrastructure for enhanced protection
Book Description The sophistication of cyber threats, such as ransomware, advanced phishing campaigns, zero-day vulnerability attacks, and advanced persistent threats (APTs), is pushing organizations and individuals to change strategies for reliable system protection. Cyber Threat Intelligence converts threat information into evidence-based intelligence that uncovers adversaries' intents, motives, and capabilities for effective defense against all kinds of threats. This book thoroughly covers the concepts and practices required to develop and drive threat

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Understand the CTI lifecycle which makes the foundation of the study

Form a CTI team and position it in the security stack

Explore CTI frameworks, platforms, and their use in the program

Integrate CTI in small, medium, and large enterprises

Discover intelligence data sources and feeds

Perform threat modelling and adversary and threat analysis

Find out what Indicators of Compromise (IoCs) are and apply the pyramid of pain in threat detection

Get to grips with writing intelligence reports and sharing intelligence

Who this book is for

This book is for security professionals, researchers, and individuals who want to gain profound knowledge of cyber threat intelligence and discover techniques to prevent varying types of cyber threats. Basic knowledge of cybersecurity and network fundamentals is required to get the most out of this book.

alienvault unified security management: CCNA Cybersecurity Operations Companion Guide Allan Johnson, Cisco Networking Academy, 2018-06-17 CCNA Cybersecurity Operations Companion Guide is the official supplemental textbook for the Cisco Networking Academy CCNA Cybersecurity Operations course. The course emphasizes real-world practical application, while providing opportunities for you to gain the skills needed to successfully handle the tasks, duties, and responsibilities of an associate-level security analyst working in a security operations center (SOC). The Companion Guide is designed as a portable desk reference to use anytime, anywhere to reinforce the material from the course and organize your time. The book's features help you focus on important concepts to succeed in this course:

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- Key Terms—Refer to the lists of networking vocabulary introduced and highlighted in context in each chapter.
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- Check Your Understanding—Evaluate your readiness with the end-of-chapter questions that match the style of questions you see in the online course quizzes. The answer key explains each answer.
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- Interactive Activities—Reinforce your understanding of topics with dozens of exercises from the online course identified throughout the book with this icon.
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- Hands-on Labs—Develop critical thinking and complex problem-solving skills by completing the labs and activities included in the course and published in the separate Lab Manual.

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Aditya K. Sood, 2023-08-21 The book discusses the security and privacy issues detected during penetration testing, security assessments, configuration reviews, malware analysis, and independent research of the cloud infrastructure and Software-as-a-Service (SaaS) applications. The book highlights hands-on technical approaches on how to detect the security issues based on the intelligence gathered from the real world case studies and also discusses the recommendations to fix the security issues effectively. This book is not about general theoretical discussion rather emphasis is laid on the cloud security concepts and how to assess and fix them practically.

alienvault unified security management: Private Equity in Action Claudia Zeisberger,

Michael Prah, Bowen White, 2017-06-09 Global Best Practice in Private Equity Investing Private Equity in Action takes you on a tour of the private equity investment world through a series of case studies written by INSEAD faculty and taught at the world's leading business schools. The book is an ideal complement to Mastering Private Equity and allows readers to apply core concepts to investment targets and portfolio companies in real-life settings. The 19 cases illustrate the managerial challenges and risk-reward dynamics common to private equity investment. The case studies in this book cover the full spectrum of private equity strategies, including: Carve-outs in the US semiconductor industry (LBO) Venture investing in the Indian wine industry (VC) Investing in SMEs in the Middle East Turnaround situations in both emerging and developed markets Written with leading private equity firms and their advisors and rigorously tested in INSEAD's MBA, EMBA and executive education programmes, each case makes for a compelling read. As one of the world's leading graduate business schools, INSEAD offers a global educational experience. The cases in this volume leverage its international reach, network and connections, particularly in emerging markets. Private Equity in Action is the companion to Mastering Private Equity: Transformation via Venture Capital, Minority Investments & Buyouts, a reference for students, investors, finance professionals and business owners looking to engage with private equity firms. From deal sourcing to exit, LBOs to responsible investing, operational value creation to risk management, Mastering Private Equity systematically covers all facets of the private equity life cycle.

alienvault unified security management: Cybersecurity - Attack and Defense Strategies

Yuri Diogenes, Dr. Erdal Ozkaya, 2019-12-31 Updated and revised edition of the bestselling guide to developing defense strategies against the latest threats to cybersecurity Key FeaturesCovers the

latest security threats and defense strategies for 2020Introduces techniques and skillsets required to conduct threat hunting and deal with a system breachProvides new information on Cloud Security Posture Management, Microsoft Azure Threat Protection, Zero Trust Network strategies, Nation State attacks, the use of Azure Sentinel as a cloud-based SIEM for logging and investigation, and much moreBook Description Cybersecurity – Attack and Defense Strategies, Second Edition is a completely revised new edition of the bestselling book, covering the very latest security threats and defense mechanisms including a detailed overview of Cloud Security Posture Management (CSPM) and an assessment of the current threat landscape, with additional focus on new IoT threats and cryptomining. Cybersecurity starts with the basics that organizations need to know to maintain a secure posture against outside threat and design a robust cybersecurity program. It takes you into the mindset of a Threat Actor to help you better understand the motivation and the steps of performing an actual attack – the Cybersecurity kill chain. You will gain hands-on experience in implementing cybersecurity using new techniques in reconnaissance and chasing a user's identity that will enable you to discover how a system is compromised, and identify and then exploit the vulnerabilities in your own system. This book also focuses on defense strategies to enhance the security of a system. You will also discover in-depth tools, including Azure Sentinel, to ensure there are security controls in each network layer, and how to carry out the recovery process of a compromised system. What you will learnThe importance of having a solid foundation for your security postureUse cyber security kill chain to understand the attack strategyBoost your organization's cyber resilience by improving your security policies, hardening your network, implementing active sensors, and leveraging threat intelligenceUtilize the latest defense tools, including Azure Sentinel and Zero Trust Network strategyIdentify different types of cyberattacks, such as SQL injection, malware and social engineering threats such as phishing emailsPerform an incident investigation using Azure Security Center and Azure SentinelGet an in-depth understanding of the disaster recovery processUnderstand how to consistently monitor security and implement a vulnerability management strategy for on-premises and hybrid cloudLearn how to perform log analysis using the cloud to identify suspicious activities, including logs from Amazon Web Services and AzureWho this book is for For the IT professional venturing into the IT security domain, IT pentesters, security consultants, or those looking to perform ethical hacking. Prior knowledge of penetration testing is beneficial.

alienvault unified security management: Network Traffic Anomaly Detection and Prevention Monowar H. Bhuyan, Dhruba K. Bhattacharyya, Jugal K. Kalita, 2017-09-03 This indispensable text/reference presents a comprehensive overview on the detection and prevention of anomalies in computer network traffic, from coverage of the fundamental theoretical concepts to in-depth analysis of systems and methods. Readers will benefit from invaluable practical guidance on how to design an intrusion detection technique and incorporate it into a system, as well as on how to analyze and correlate alerts without prior information. Topics and features: introduces the essentials of traffic management in high speed networks, detailing types of anomalies, network vulnerabilities, and a taxonomy of network attacks; describes a systematic approach to generating large network intrusion datasets, and reviews existing synthetic, benchmark, and real-life datasets; provides a detailed study of network anomaly detection techniques and systems under six different categories: statistical, classification, knowledge-base, cluster and outlier detection, soft computing, and combination learners; examines alert management and anomaly prevention techniques, including alert preprocessing, alert correlation, and alert post-processing; presents a hands-on approach to developing network traffic monitoring and analysis tools, together with a survey of existing tools; discusses various evaluation criteria and metrics, covering issues of accuracy, performance, completeness, timeliness, reliability, and quality; reviews open issues and challenges in network traffic anomaly detection and prevention. This informative work is ideal for graduate and advanced undergraduate students interested in network security and privacy, intrusion detection systems, and data mining in security. Researchers and practitioners specializing in network security will also find the book to be a useful reference.

alienvault unified security management: Cyber Minds Shira Rubinoff, 2020-01-13 Cyber Minds brings together an unrivalled panel of international experts who offer their insights into current cybersecurity issues in the military, business, and government. Key Features Explore the latest developments in cybersecurity Hear expert insight from the industry's top practitioners Dive deep into cyber threats in business, government, and military Book Description Shira Rubinoff's Cyber Minds brings together the top authorities in cybersecurity to discuss the emergent threats that face industries, societies, militaries, and governments today. With new technology threats, rising international tensions, and state-sponsored cyber attacks, cybersecurity is more important than ever. Cyber Minds serves as a strategic briefing on cybersecurity and data safety, collecting expert insights from sector security leaders, including: General Gregory Touhill, former Federal Chief Information Security Officer of the United States Kevin L. Jackson, CEO and Founder, GovCloud Mark Lynd, Digital Business Leader, NETSYNC Joseph Steinberg, Internet Security advisor and thought leader Jim Reavis, Co-Founder and CEO, Cloud Security Alliance Dr. Tom Kellerman, Chief Cybersecurity Officer for Carbon Black Inc and Vice Chair of Strategic Cyber Ventures Board Mary Ann Davidson, Chief Security Officer, Oracle Dr. Sally Eaves, Emergent Technology CTO, Global Strategy Advisor - Blockchain AI FinTech, Social Impact award winner, keynote speaker and author Dr. Guenther Dobrauz, Partner with PwC in Zurich and Leader of PwC Legal Switzerland Barmak Meftah, President, AT&T Cybersecurity Cleve Adams, CEO, Site 1001 (AI and big data based smart building company) Ann Johnson, Corporate Vice President - Cybersecurity Solutions Group, Microsoft Barbara Humpton, CEO, Siemens USA Businesses and states depend on effective cybersecurity. This book will help you to arm and inform yourself on what you need to know to keep your business - or your country - safe. What you will learn The threats and opportunities presented by AI How to mitigate social engineering and other human threats Developing cybersecurity strategies for the cloud Major data breaches, their causes, consequences, and key takeaways Blockchain applications for cybersecurity Implications of IoT and how to secure IoT services The role of security in cyberterrorism and state-sponsored cyber attacks Who this book is for This book is essential reading for business leaders, the C-Suite, board members, IT decision makers within an organization, and anyone with a responsibility for cybersecurity.

alienvault unified security management: Network Forensics: Tracing the Digital Footprints Vijay Gupta, 2024-07-29 In an age where cyber threats are becoming increasingly sophisticated, understanding how to trace digital footprints is more crucial than ever. Network Forensics: Tracing the Digital Footprints is a comprehensive guide designed for cybersecurity professionals, IT experts, and anyone interested in the field of digital forensics. This ebook delves deep into the world of network forensics, providing readers with the tools and knowledge necessary to investigate and analyze network traffic. From identifying malicious activities to uncovering cybercrime evidence, this book covers a wide range of topics essential for mastering network forensics. Key topics include: Introduction to Network Forensics: Understanding the basics and importance of network forensics in today's digital landscape. Network Traffic Analysis: Techniques and tools for capturing and analyzing network traffic to detect anomalies and potential threats. Investigative Methodologies: Step-by-step processes for conducting thorough and effective network forensic investigations. Case Studies: Real-world examples illustrating the application of network forensics in solving cybercrimes. Advanced Techniques: Exploring the latest advancements in network forensics, including machine learning and AI applications. Legal and Ethical Considerations: Navigating the legal landscape and maintaining ethical standards during forensic investigations. Written by experts in the field, this ebook is an invaluable resource for those looking to enhance their skills and stay ahead in the ever-evolving world of cybersecurity. Whether you are a beginner or an experienced professional, Network Forensics: Tracing the Digital Footprints will equip you with the insights and capabilities to effectively trace and combat digital threats.

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alienvault unified security management: Mastering Private Equity Set Claudia Zeisberger, Michael Pahl, Bowen White, 2017-07-06 This set combines the definitive guide to private equity with its case book companion, providing readers with both the tools used by industry professionals and the means to apply them to real-life investment scenarios. 1) Mastering Private Equity was written with a professional audience in mind and provides a valuable and unique reference for investors, finance professionals, students and business owners looking to engage with private equity firms or invest in private equity funds. From deal sourcing to exit, LBOs to responsible investing, operational value creation to risk management, the book systematically distills the essence of private equity into core concepts and explains in detail the dynamics of venture capital, growth equity and buyout transactions. With a foreword by Henry Kravis, Co-Chairman and Co-CEO of KKR, and special guest comments by senior PE professionals. 2) Private Equity in Action takes you on a tour of the private equity investment world through a series of case studies written by INSEAD faculty and taught at the world's leading business schools. The book is an ideal complement to Mastering Private Equity and allows readersto apply core concepts to investment targets and portfolio companies in real-life settings. The 19 cases illustrate the managerial challenges and risk-reward dynamics common to private equity investment. Written with leading private equity firms and their advisors and rigorously tested in INSEAD's MBA, EMBA and executive education programmes, each case makes for a compelling read.

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alienvault unified security management: Hands-On Penetration Testing with Python Furqan Khan, 2019-01-31 Implement defensive techniques in your ecosystem successfully with Python Key FeaturesIdentify and expose vulnerabilities in your infrastructure with PythonLearn custom exploit development .Make robust and powerful cybersecurity tools with PythonBook Description With the current technological and infrastructural shift, penetration testing is no longer a process-oriented activity. Modern-day penetration testing demands lots of automation and innovation; the only language that dominates all its peers is Python. Given the huge number of tools written in Python, and its popularity in the penetration testing space, this language has always been the first choice for penetration testers. Hands-On Penetration Testing with Python walks you through advanced Python programming constructs. Once you are familiar with the core concepts, you'll explore the advanced uses of Python in the domain of penetration testing and optimization. You'll then move on to understanding how Python, data science, and the cybersecurity ecosystem communicate with one another. In the concluding chapters, you'll study exploit development, reverse engineering, and cybersecurity use cases that can be automated with Python. By the end of this book, you'll have acquired adequate skills to leverage Python as a helpful tool to pentest and secure infrastructure, while also creating your own custom exploits. What you will learnGet to grips with Custom vulnerability scanner developmentFamiliarize yourself with web application scanning automation and exploit developmentWalk through day-to-day cybersecurity scenarios that can be automated with PythonDiscover enterprise-or organization-specific use cases and threat-hunting automationUnderstand reverse engineering, fuzzing, buffer overflows , key-logger development, and exploit development for buffer overflows.Understand web scraping in Python and use it for processing web responsesExplore Security Operations Centre (SOC) use casesGet to understand Data Science, Python, and cybersecurity all under one hoodWho this book is for If you are a security consultant , developer or a cyber security enthusiast with little or no knowledge of Python and want in-depth insight into how the pen-testing ecosystem and python combine to create offensive tools , exploits , automate cyber security use-cases and much more then this book is for you. Hands-On Penetration Testing with Python guides you through the advanced uses of Python for cybersecurity and pen-testing, helping you to better understand security loopholes within your infrastructure .

alienvault unified security management: Advances in Human Factors in Cybersecurity Denise Nicholson, 2016-08-16 This book reports on the latest research and developments in the field of cybersecurity, giving a special emphasis on personal security and new methods for reducing human error and increasing cyber awareness, and innovative solutions for increasing the security of advanced Information Technology (IT) infrastructures. It covers a wealth of topics, including methods for human training, novel Cyber-Physical and Process-Control Systems, social, economic

and behavioral aspects of the cyberspace, issues concerning the cyber security index, security metrics for enterprises, risk evaluation, and many others. Based on the AHFE 2016 International Conference on Human Factors in Cybersecurity, held on July 27-31, 2016, in Walt Disney World®, Florida, USA, this book not only presents innovative cybersecurity technologies, but also discusses emerging threats, current gaps in the available systems and future challenges that may be coped with through the help of human factors research.

alienvault unified security management: Mobility in a Globalised World 2019 Werner, Jan, Biethahn, Niels, Kolke, Reinhard, Sucky, Eric, Honekamp, Wilfried, 2020-05-27

alienvault unified security management: Computer and Information Security Handbook John R. Vacca, 2024-08-28 Computer and Information Security Handbook, Fourth Edition, provides the most current and complete reference on computer security available on the market. The book offers deep coverage of an extremely wide range of issues in computer and cybersecurity theory, applications, and best practices, offering the latest insights into established and emerging technologies and advancements. With new parts devoted to such current topics as Cyber Security for the Smart City and Smart Homes, Cyber Security of Connected and Automated Vehicles, and Future Cyber Security Trends and Directions, the book now has 115 chapters written by leading experts in their fields, as well as 8 updated appendices and an expanded glossary. It continues its successful format of offering problem-solving techniques that use real-life case studies, checklists, hands-on exercises, question and answers, and summaries. Chapters new to this edition include such timely topics as Threat Landscape and Good Practices for Internet Infrastructure, Cyber Attacks Against the Grid Infrastructure, Threat Landscape and Good Practices for the Smart Grid Infrastructure, Energy Infrastructure Cyber Security, Smart Cities Cyber Security Concerns, Community Preparedness Action Groups for Smart City Cyber Security, Smart City Disaster Preparedness and Resilience, Cyber Security in Smart Homes, Threat Landscape and Good Practices for Smart Homes and Converged Media, Future Trends for Cyber Security for Smart Cities and Smart Homes, Cyber Attacks and Defenses on Intelligent Connected Vehicles, Cyber Security Issues in VANETs, Use of AI in Cyber Security, New Cyber Security Vulnerabilities and Trends Facing Aerospace and Defense Systems, How Aerospace and Defense Companies Will Respond to Future Cyber Security Threats, Fighting the Rising Trends of Cyber Attacks on Aviation, Future Trends for Cyber Security in the Gaming Industry, Future Trends for Cyber Attacks in the Healthcare Industry, and much more. - Written by leaders in the field - Comprehensive and up-to-date coverage of the latest security technologies, issues, and best practices - Presents methods for analysis, along with problem-solving techniques for implementing practical solutions

alienvault unified security management: Formula 4.0 for Digital Transformation Venkatesh Upadrista, 2021-05-26 A staggering 70% of digital transformations have failed as per McKinsey. The key reason why enterprises are failing in their digital transformation journey is because there is no standard framework existing in the industry that enterprises can use to transform themselves to digital. There are several books that speak about technologies such as Cloud, Artificial Intelligence and Data Analytics in silos, but none of these provides a holistic view on how enterprises can embark on a digital transformation journey and be successful using a combination of these technologies. FORMULA 4.0 is a methodology that provides clear guidance for enterprises aspiring to transform their traditional operating model to digital. Enterprises can use this framework as a readymade guide and plan their digital transformation journey. This book is intended for all chief executives, software managers, and leaders who intend to successfully lead this digital transformation journey. An enterprise can achieve success in digital transformation only if it can create an IT Platform that will enable them to adopt any new technology seamlessly into existing IT estate; deliver new products and services to the market in shorter durations; make business decisions with IT as an enabler and utilize automation in all its major business and IT processes. Achieving these goals is what defines a digital enterprise -- Formula 4.0 is a methodology for enterprises to achieve these goals and become digital. Essentially, there is no existing framework in the market that provides a step-by-step guide to enterprises on how to embark on their successful digital transformation

journey. This book enables such transformations. Overall, the Formula 4.0 is an enterprise digital transformation framework that enables organizations to become truly digital.

alienvault unified security management: Cybercrime and Business Sanford Moskowitz, 2017-05-19 Cybercrime and Business: Strategies for Global Corporate Security examines the three most prevalent cybercrimes afflicting today's corporate security professionals: piracy, espionage, and computer hacking. By demonstrating how each of these threats evolved separately and then converged to form an ultra-dangerous composite threat, the book discusses the impact the threats pose and how the very technologies that created the problem can help solve it. Cybercrime and Business then offers viable strategies for how different types of businesses—from large multinationals to small start-ups—can respond to these threats to both minimize their losses and gain a competitive advantage. The book concludes by identifying future technological threats and how the models presented in the book can be applied to handling them. - Demonstrates how to effectively handle corporate cyber security issues using case studies from a wide range of companies around the globe - Highlights the regulatory, economic, cultural, and demographic trends businesses encounter when facing security issues - Profiles corporate security issues in major industrialized, developing, and emerging countries throughout North America, Europe, Asia, Latin America, Africa, and the Middle East

alienvault unified security management: CompTIA CySA+ Cybersecurity Analyst Certification All-in-One Exam Guide (CS0-001) Fernando Maymi, Brent Chapman, 2017-09-01 This comprehensive self-study guide offers complete coverage of the new CompTIA Cybersecurity Analyst+ certification exam Note: This guide has been updated to reflect CompTIA's exam acronym CySA+. This highly effective self-study system provides complete coverage of every objective for the challenging CompTIA CySA+ Cybersecurity Analyst exam. You'll find learning objectives at the beginning of each chapter, exam tips, in-depth explanations, and practice exam questions. All questions closely mirror those on the live test in content, format, and tone. Designed to help you pass exam CS0-001 with ease, this definitive guide also serves as an essential on-the-job reference. Covers every topic on the exam, including: •Threat and vulnerability management •Conducting and analyzing reconnaissance •Responding to network-based threats •Securing a cooperate network •Cyber incident response •Determining the impact of incidents •Preparing the incident response toolkit •Security architectures •Policies, procedures, and controls •Assuring identity and access management •Putting in compensating controls •Secure software development Electronic content includes: •200 practice questions •Secured book PDF

alienvault unified security management: Modern Cybersecurity Practices Pascal Ackerman, 2020-04-30 A practical book that will help you defend against malicious activities Ê DESCRIPTIONÊ Modern Cybersecurity practices will take you on a journey through the realm of Cybersecurity. The book will have you observe and participate in the complete takeover of the network of Company-X, a widget making company that is about to release a revolutionary new widget that has the competition fearful and envious. The book will guide you through the process of the attack on Company-X's environment, shows how an attacker could use information and tools to infiltrate the companies network, exfiltrate sensitive data and then leave the company in disarray by leaving behind a little surprise for any users to find the next time they open their computer. Ê After we see how an attacker pulls off their malicious goals, the next part of the book will have your pick, design, and implement a security program that best reflects your specific situation and requirements. Along the way, we will look at a variety of methodologies, concepts, and tools that are typically used during the activities that are involved with the design, implementation, and improvement of one's cybersecurity posture. Ê After having implemented a fitting cybersecurity program and kickstarted the improvement of our cybersecurity posture improvement activities we then go and look at all activities, requirements, tools, and methodologies behind keeping an eye on the state of our cybersecurity posture with active and passive cybersecurity monitoring tools and activities as well as the use of threat hunting exercises to find malicious activity in our environment that typically stays under the radar of standard detection methods like firewall, IDS and endpoint protection solutions.

By the time you reach the end of this book, you will have a firm grasp on what it will take to get a healthy cybersecurity posture set up and maintained for your environment. **KEY FEATURES** - Learn how attackers infiltrate a network, exfiltrate sensitive data and destroy any evidence on their way out - Learn how to choose, design and implement a cybersecurity program that best fits your needs - Learn how to improve a cybersecurity program and accompanying cybersecurity posture by checks, balances and cyclic improvement activities - Learn to verify, monitor and validate the cybersecurity program by active and passive cybersecurity monitoring activities - Learn to detect malicious activities in your environment by implementing Threat Hunting exercises **WHAT WILL YOU LEARN** - Explore the different methodologies, techniques, tools, and activities an attacker uses to breach a modern company's cybersecurity defenses - Learn how to design a cybersecurity program that best fits your unique environment - Monitor and improve one's cybersecurity posture by using active and passive security monitoring tools and activities. - Build a Security Incident and Event Monitoring (SIEM) environment to monitor risk and incident development and handling. - Use the SIEM and other resources to perform threat hunting exercises to find hidden mayhem **WHO THIS BOOK IS FOR** This book is a must-read to everyone involved with establishing, maintaining, and improving their Cybersecurity program and accompanying cybersecurity posture. **TABLE OF CONTENTS** 1. What's at stake 2. Define scope 3. Adhere to a security standard 4. Defining the policies 5. Conducting a gap analysis 6. Interpreting the analysis results 7. Prioritizing remediation 8. Getting to a comfortable level 9. Conducting a penetration test. 10. Passive security monitoring. 11. Active security monitoring. 12. Threat hunting. 13. Continuous battle 14. Time to reflect

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alienvault unified security management: Industrial Cybersecurity Pascal Ackerman, 2017-10-18 Your one-step guide to understanding industrial cyber security, its control systems, and its operations. About This Book Learn about endpoint protection such as anti-malware implementation, updating, monitoring, and sanitizing user workloads and mobile devices Filled with practical examples to help you secure critical infrastructure systems efficiently A step-by-step guide that will teach you the techniques and methodologies of building robust infrastructure systems Who This Book Is For If you are a security professional and want to ensure a robust environment for critical infrastructure systems, this book is for you. IT professionals interested in getting into the cyber security domain or who are looking at gaining industrial cyber security certifications will also find this book useful. What You Will Learn Understand industrial cybersecurity, its control systems and operations Design security-oriented architectures, network segmentation, and security support services Configure event monitoring systems, anti-malware applications, and endpoint security Gain knowledge of ICS risks, threat detection, and access management Learn about patch management and life cycle management Secure your industrial control systems from design through retirement In Detail With industries expanding, cyber attacks have increased significantly. Understanding your

control system's vulnerabilities and learning techniques to defend critical infrastructure systems from cyber threats is increasingly important. With the help of real-world use cases, this book will teach you the methodologies and security measures necessary to protect critical infrastructure systems and will get you up to speed with identifying unique challenges. Industrial cybersecurity begins by introducing Industrial Control System (ICS) technology, including ICS architectures, communication media, and protocols. This is followed by a presentation on ICS (in) security. After presenting an ICS-related attack scenario, securing of the ICS is discussed, including topics such as network segmentation, defense-in-depth strategies, and protective solutions. Along with practical examples for protecting industrial control systems, this book details security assessments, risk management, and security program development. It also covers essential cybersecurity aspects, such as threat detection and access management. Topics related to endpoint hardening such as monitoring, updating, and anti-malware implementations are also discussed. Style and approach A step-by-step guide to implement Industrial Cyber Security effectively.

alienvault unified security management: Graphical Models for Security Sjouke Mauw, Barbara Kordy, Sushil Jajodia, 2016-02-05 This volume constitutes the thoroughly refereed post-conference proceedings of the Second International Workshop on Graphical Models for Security, GraMSec 2015, held in Verona, Italy, in July 2015. The 5 revised full papers presented together with one short tool paper and one invited lecture were carefully reviewed and selected from 13 submissions. The workshop contributes to the development of well-founded graphical security models, efficient algorithms for their analysis, as well as methodologies for their practical usage, thus providing an intuitive but systematic methodology to analyze security weaknesses of systems and to evaluate potential protection measures. /div

alienvault unified security management: Transactions on Large-Scale Data- and Knowledge-Centered Systems LI Abdelkader Hameurlain, A Min Tjoa, Esther Pacitti, Zoltan Miklos, 2022-10-07 The LNCS journal Transactions on Large-Scale Data and Knowledge-Centered Systems focuses on data management, knowledge discovery, and knowledge processing, which are core and hot topics in computer science. Since the 1990s, the Internet has become the main driving force behind application development in all domains. An increase in the demand for resource sharing (e.g., computing resources, services, metadata, data sources) across different sites connected through networks has led to an evolution of data- and knowledge-management systems from centralized systems to decentralized systems enabling large-scale distributed applications providing high scalability. This, the 51st issue of Transactions on Large-Scale Data and Knowledge-Centered Systems, contains five fully revised selected regular papers. Topics covered include data anomaly detection, schema generation, optimizing data coverage, and digital preservation with synthetic DNA.

alienvault unified security management: Data Protection from Insider Threats Elisa Bertino, 2012-06-01 As data represent a key asset for today's organizations, the problem of how to protect this data from theft and misuse is at the forefront of these organizations' minds. Even though today several data security techniques are available to protect data and computing infrastructures, many such techniques -- such as firewalls and network security tools -- are unable to protect data from attacks posed by those working on an organization's inside. These insiders usually have authorized access to relevant information systems, making it extremely challenging to block the misuse of information while still allowing them to do their jobs. This book discusses several techniques that can provide effective protection against attacks posed by people working on the inside of an organization. Chapter One introduces the notion of insider threat and reports some data about data breaches due to insider threats. Chapter Two covers authentication and access control techniques, and Chapter Three shows how these general security techniques can be extended and used in the context of protection from insider threats. Chapter Four addresses anomaly detection techniques that are used to determine anomalies in data accesses by insiders. These anomalies are often indicative of potential insider data attacks and therefore play an important role in protection from these attacks. Security information and event management (SIEM) tools and fine-grained auditing

are discussed in Chapter Five. These tools aim at collecting, analyzing, and correlating -- in real-time -- any information and event that may be relevant for the security of an organization. As such, they can be a key element in finding a solution to such undesirable insider threats. Chapter Six goes on to provide a survey of techniques for separation-of-duty (SoD). SoD is an important principle that, when implemented in systems and tools, can strengthen data protection from malicious insiders. However, to date, very few approaches have been proposed for implementing SoD in systems. In Chapter Seven, a short survey of a commercial product is presented, which provides different techniques for protection from malicious users with system privileges -- such as a DBA in database management systems. Finally, in Chapter Eight, the book concludes with a few remarks and additional research directions. Table of Contents: Introduction / Authentication / Access Control / Anomaly Detection / Security Information and Event Management and Auditing / Separation of Duty / Case Study: Oracle Database Vault / Conclusion

alienvault unified security management: Analyse sicherheitsrelevanter Geschäftsprozesse eines Anwendungsfalls aus der Finanzbranche und Ermittlung der hierfür geeigneten Methoden
 Peter von Oppenkowski, 2011-11-29 Inhaltsangabe: Einleitung: Die Informationstechnologie (IT) hat in den Finanzdienstleistungshäusern schon lange einen übergreifenden Einzug erhalten und unterstützt Kunden sowie Mitarbeiter bei täglichen Routinen. Der Einsatz von mobilen und stark vernetzten IT-Systemen ist dabei in nahezu sämtlichen Geschäftsprozessen wiederzufinden und leistet als Rückgrat vieler Geschäftsmodelle einen wesentlichen Beitrag zur Erreichung der Unternehmensziele. Immer deutlicher zählt die dabei eingesetzte IT-Infrastruktur zum wertvollen, besonders zu schützenden Gut eines Unternehmens und ist zugleich zunehmend dem Einwirken komplexer Ereignisse - resultierend aus Missbräuchen oder auch Fehlbedienungen - auf sicherheitskritische Eigenschaften der Geschäftsprozesse ausgesetzt. Für die Finanzbranche entstehen auf diese Weise Schäden, die sehr vielfältig ausfallen können und dessen vorläufiger Höhepunkt sich - verursacht durch einen einzelnen Fall von Computermisbrauch - auf eine bedrohliche Schadenssumme von 4,9 Milliarden Euro beläuft. Der IT-Sicherheit wird damit eine enorme Bedeutung zuteil, dessen Erfolg, gemessen an der Minimierung der Gefährdung des reibungslosen Geschäftsablaufs bzw. der Vermeidung wirtschaftlicher Schäden, wesentlich von der effizienten Ermittlung und Bewertung von Bedrohungen und Risiken und anschließender Maßnahmen abhängt. Dem wird die Sicherheitsanalyse - deren Ergebnisse sich in den Sicherheitsanforderungen widerspiegeln - gerecht, die allerdings aufgrund der Dynamik bei IT-Systemen bereits einen stetig wiederkehrenden Aufwand für das Unternehmen bedeutet. Zusätzlich und weitaus aufwendiger ergibt sich die Durchführung und Überwachung der aus den Anforderungen hervorgehenden Sicherheitsmaßnahmen im Tagesgeschäft. Um diesen Aufgaben Herr zu werden bedienen sich Finanzdienstleister (FDL) technischer Hilfsmittel, dessen Leistungsfähigkeit einen gewichtigen Einflussfaktor auf ein optimales Verhältnis zwischen höchstmöglichem Schutz bei geringstmöglichem Arbeitsaufwand ausmacht. Zu den von den FDL genutzten technischen Hilfsmitteln zählen unter anderem Fire-walls, Virens Scanner, Intrusion Detection bzw. Intrusion Protection Systeme (IDS/IPS), die im Wesentlichen sicherheitskritische Aktivitäten innerhalb eines Rechnernetzes oder -systems erkennen bzw. anzeigen und ggf. unterbinden sowie zunehmend Security Information and Event Management (SIEM) Lösungen. Letztere nehmen eine übergeordnete Rolle ein, da diese auf erstgenannte aufsetzen [...]

alienvault unified security management: *III. ULUSLARARASI RATING ACADEMY KONGRESİ: UYGULAMALI BİLİMLER: BİLDİRİLER* Doç. Dr. Mehmet ŞAHİN, 2018-10-11

alienvault unified security management: Ambient Intelligence- Software and Applications - 8th International Symposium on Ambient Intelligence (ISAmI 2017) Juan F. De Paz, Vicente Julián, Gabriel Villarrubia, Goreti Marreiros, Paulo Novais, 2017-06-14 Ambient Intelligence (AmI) is a recent paradigm emerging from Artificial Intelligence, in which computers are used as proactive tools to assist people with their day-to-day activities, making their lives more comfortable. Another main goal of AmI originates from the human/computer interaction domain and focuses on offering ways to interact with systems in a more natural way by means of user-friendly

interfaces. This field is evolving quickly, as can be witnessed by the emerging natural-language-based and gesture-based types of interaction. The inclusion of computational power and communication technologies in everyday objects is growing, and their embeddedness in our environments should be as invisible as possible. In order for AmI to be successful, human interaction with computing power and embedded systems in the surroundings should be smooth and take place without people actually noticing it. The only things people should notice in connection with AmI are more safety, comfort and wellbeing, emerging in a natural and inherent way. ISAmI is the International Symposium on Ambient Intelligence and aims to bring together researchers from the various disciplines that constitute the scientific field of Ambient Intelligence to present and discuss the latest results, new ideas, projects and lessons learned, especially in terms of software and applications.

alienvault unified security management: Information Security Handbook Darren Death, 2017-12-08 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.

alienvault unified security management: Ten Strategies of a World-Class Cybersecurity Operations Center Carson Zimmerman, 2014-07-01 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.

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