Blue Team Handbook Incident Response Edition A Condensed Field For The Cyber Security Incident Responder

ALEXZANDER SUTTON

computer security and incident response John Wiley & Sons
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.
Incident Response Ballantine Books
Using a well-conceived incident response plan in the aftermath of an online security breach enables your team to identify attackers and learn how they operate. But, only when you approach incident response with a cyber threat intelligence mindset will you truly understand the value of that information. With this practical guide, you'll learn the fundamentals of intelligence analysis, as well as the best ways to incorporate these techniques into your incident response process. Each method reinforces the other: threat intelligence supports and augments incident response, while incident response generates useful threat intelligence. This book helps incident managers, malware analysts, reverse engineers, digital forensics specialists, and intelligence analysts understand, implement, and benefit from this relationship. In three parts, this in-depth book includes: The fundamentals: get an introduction to cyber threat intelligence, the intelligence process, the incident-response process, and how they all work together Practical

application: walk through the intelligence-driven incident response (IDIR) process using the F3EAD process—Find, Fix Finish, Exploit, Analyze, and Disseminate The way forward: explore big-picture aspects of IDIR that go beyond individual incident-response investigations, including intelligence team building

Red Team Field Manual Createspace Independent Publishing Platform

The Red Team Field Manual (RTFM) is a no fluff, but thorough reference guide for serious Red Team members who routinely find themselves on a mission without Google or the time to scan through a man page. The RTFM contains the basic syntax for commonly used Linux and Windows command line tools, but it also encapsulates unique use cases for powerful tools such as Python and Windows PowerShell. The RTFM will repeatedly save you time looking up the hard to remember Windows nuances such as Windows wmic and dsquery command line tools, key registry values, scheduled tasks syntax, startup locations and Windows scripting. More importantly, it should teach you some new red team techniques.

Incident Handling and Response No Starch Press

The definitive guide to incident response--updated for the first time in a decade! Thoroughly revised to cover the latest and most effective tools and techniques, Incident Response & Computer Forensics, Third Edition arms you with the information you need to get your organization out of trouble when data breaches occur. This practical resource covers the entire lifecycle of incident response, including preparation, data collection, data analysis, and remediation. Real-world case studies reveal the methods behind--and remediation strategies for--today's most insidious attacks. Architect an infrastructure that allows for methodical investigation and remediation Develop leads, identify indicators of compromise, and determine incident scope Collect and preserve live data Perform forensic duplication Analyze data from networks, enterprise services, and applications Investigate Windows and Mac OS X systems Perform malware triage Write detailed incident response reports Create and implement comprehensive remediation plans

What CISOs Need to Know about Risk-Based Cybersecurity NWCG Training Branch

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.

Killer in the Pool "O'Reilly Media, Inc."

"Incident Response is a complete guide for organizations of all sizes and types who are addressing their computer security issues."--Jacket.

Cybersecurity ??? Attack and Defense Strategies Packt Publishing Ltd

Incident response is critical for the active defense of any network, and incident responders need up-to-date, immediately applicable techniques with which to engage the adversary. Applied Incident Response details effective ways to respond to advanced attacks against local and remote network resources, providing proven response techniques and a framework through which to apply them. As a starting point for new incident handlers, or as a technical reference for hardened IR veterans, this book details the latest techniques for responding to threats against your network, including: Preparing your environment for effective incident response Leveraging MITRE ATT&CK and threat intelligence for active network defense Local and remote triage of systems using PowerShell, WMIC, and open-source tools Acquiring RAM and disk images locally and remotely Analyzing RAM with Volatility and Rekall Deep-dive forensic analysis of system drives using open-source or commercial tools Leveraging Security Onion and Elastic Stack for network security monitoring Techniques for log analysis and aggregating high-value logs Static and dynamic analysis of malware with YARA rules, FLARE VM, and Cuckoo Sandbox Detecting and responding to lateral movement techniques, including pass-the-hash, pass-the-ticket, Kerberoasting, malicious use of PowerShell, and many more Effective threat hunting techniques Adversary emulation with Atomic Red Team Improving preventive and detective controls

The Practice of Network Security Monitoring Apress

Digital Forensics with Open Source Tools is the definitive book on investigating and analyzing computer systems and media using open source tools. The book is a technical procedural guide, and explains the use of open source tools on Mac, Linux and Windows systems as a platform for performing computer forensics. Both well-known and novel forensic methods are demonstrated using command-line and graphical open source computer forensic tools for examining a wide range of target systems and artifacts. Written by world-renowned forensic practitioners, this book uses the most current examination and analysis techniques in the field. It consists of 9 chapters that cover a range of topics such as the open source examination platform; disk and file system analysis; Windows systems and artifacts; Linux systems and artifacts; Mac OS X systems and artifacts; Internet artifacts; and automating analysis and extending capabilities. The book lends itself to use by students and those entering the field who do not have means to purchase new tools for different investigations. This book will appeal to forensic practitioners from areas including incident response teams and computer forensic investigators; forensic technicians from legal, audit, and consulting firms; and law enforcement agencies. Written by world-renowned forensic practitioners Details core concepts and techniques of forensic file system analysis Covers analysis of artifacts from the Windows, Mac, and Linux operating systems

Best Practices for Securing Infrastructure Cisco Press

This comprehensive book instructs IT managers to adhere to federally mandated compliance requirements. FISMA Compliance Handbook Second Edition explains what the requirements are for FISMA compliance and why FISMA compliance is mandated by federal law. The evolution of Certification and Accreditation is discussed. This book walks the reader through the entire FISMA compliance process and includes guidance on how to manage a FISMA compliance project from start to finish. The book has chapters for all FISMA compliance deliverables and includes information on how to conduct a FISMA compliant security assessment. Various topics discussed in this book include the NIST Risk Management Framework, how to characterize the sensitivity level of your system, contingency plan, system security plan development, security awareness training, privacy impact assessments, security assessments and more. Readers will learn how to obtain an Authority to Operate for an information system and what actions to take in regards to vulnerabilities and audit findings. FISMA Compliance Handbook Second Edition, also includes all-new coverage of federal cloud computing compliance from author Laura Taylor, the federal government’s technical lead for FedRAMP, the government program used to assess and authorize cloud products and services. Includes new information on cloud computing compliance from Laura Taylor, the federal government’s technical lead for FedRAMP Includes coverage for both corporate and government IT managers Learn how to prepare for, perform, and document FISMA compliance projects This book is used by various colleges and universities in information security and MBA curriculums

Purple Team Field Manual SAGE

Uncertainty and risk, meet planning and action. Reinforce your organization’s security posture using the expert information contained in this tactical guide. The Computer Incident Response Planning Handbook: Executable Plans for Protecting Information at Risk shows you how to build and manage successful response plans for the cyber incidents that have become inevitable for organizations of any size. Find out why these plans work. Learn the step-by-step process for developing and managing plans built to address the wide range of issues organizations face in times of crisis. Contains the essentials for developing both data breach and malware outbreak response plans—and best practices for maintaining those plans Features ready-to-implement CIRPs—derived from living incident response plans that have survived the rigors of repeated execution and numerous audits Clearly explains how to minimize the risk of post-event litigation, brand impact, fines and penalties—and how to protect shareholder value Supports corporate compliance with industry standards and requirements, including PCI, HIPAA, SOX, and CA SB-24

A Holistic Approach for an Efficient Security Incident Management. Pragma LLC

Blue Team Handbook: SOC, SIEM, and Threat Hunting Use Cases provides the security practitioner with numerous field notes on building a security operations team and mining data sources to get the maximum amount of information out of them with a threat hunting approach. The author shares his fifteen years of experience with SIEMs and security operations after implementing five major platforms, integrating over one hundred data sources into various platforms, and running a MSSP practice.This book covers the topics below using a "zero fluff" approach as if you hired him as a security consultant and were sitting across the table with him (or her). Topics covered include:* The book begins with a discussion for professionals to help them build a successful business case and a project plan, and deciding on SOC tier models. There is also a list of tough questions you need to consider when proposing a SOC, as well as a discussion of layered operating models. * It then goes through numerous data sources that feed a SOC and SIEM and provides specific guidance on how to use those data sources. Most of the examples presented were implemented in one organization or another. These uses cases explain how to use a SIEM and how to use the data coming into the platform, a question that is poorly answered by many vendors.* An inventory of Security Operations Center (SOC) Services.* Several business concepts are also introduced, because they are often overlooked by IT: value chain, PESTL, and SWOT. * Metrics.* SOC staff onboarding, training topics, and desirable skills. Along these lines, there is a chapter on a day in the life of a SOC analyst. * Maturity analysis for the SOC and the log management program. * Applying a Threat Hunt mindset to the SOC. * A full use case template that was used within two major Fortune 500 companies, and is in active use by one major SIEM vendor, along with a complete example of how to build a SOC and SIEM focused use case. You can see the corresponding discussion on YouTube - search for the 2017 Security Onion conference. * Critical topics in deploying SIEM based on experience deploying five different technical platforms for nineteen different organizations in education, nonprofit, and commercial enterprises from 160 to 30,000 personnel. * Understanding why SIEM deployments fail with actionable compensators. * Real life experiences getting data into SIEM platforms and the considerations for the many different ways to provide data. * Issues relating to time, time management, and time zones. * Critical factors in log management, network security monitoring, continuous monitoring, and security architecture related directly to SOC and SIEM.* A table of useful TCP and UDP port numbers.This is the second book in the Blue Team Handbook Series. Volume One, focused on incident response, has over 32,000 copies in print and has a 4.5/5.0 review rating!

Blue Team Field Manual Oreilly & Associates Incorporated

The Red Team and the Blue Team are now obsolete. The only manual you need is this: "TCTFM" The Complete Team Field Manual is the most comprehensive cybersecurity manual around that includes all the different techniques and approaches of the blue and red teams. This book contains: the basic syntax for commonly used Linux and Windows command line tools unique use cases for powerful tools such as Python and Windows PowerShell five core functions of Identify, Protect, Detect, Respond, and Recover tactical steps and commands to use when preparing working through recovering commands after Cyber Security Incident more importantly, it should teach you some new secret techniques Scroll up and buy this manual. It will be the only book you will use!

Blue Team Handbook New Word City

Enhance your organization’s secure posture by improving your attack and defense strategies Key Features Gain a clear understanding of the attack methods, and patterns to recognize abnormal behavior within your organization with Blue Team tactics. Learn to unique techniques to gather exploitation intelligence, identify risk and demonstrate impact with Red Team and Blue Team strategies. A practical guide that will give you hands-on experience to mitigate risks and prevent attackers from infiltrating your system. Book Description The book will start talking about the security posture before moving to Red Team tactics, where you will learn the basic syntax for the Windows and Linux tools that are commonly used to perform the necessary operations. You will also gain hands-on experience of using new Red Team techniques with powerful tools such as python and PowerShell, which will enable you to discover vulnerabilities in your system and how to exploit them. Moving on, you will learn how a system is usually compromised by adversaries, and how they hack user's identity, and the various tools used by the Red Team to find vulnerabilities in a system. In the next section, you will learn about the defense strategies followed by the Blue Team to enhance the overall security of a system. You will also learn about an in-depth strategy to ensure that there are security controls in each network layer, and how you can carry out the recovery process of a

compromised system. Finally, you will learn how to create a vulnerability management strategy and the different techniques for manual log analysis. By the end of this book, you will be well-versed with Red Team and Blue Team techniques and will have learned the techniques used nowadays to attack and defend systems. What you will learn Learn the importance of having a solid foundation for your security posture Understand the attack strategy using cyber security kill chain Learn how to enhance your defense strategy by improving your security policies, hardening your network, implementing active sensors, and leveraging threat intelligence Learn how to perform an incident investigation Get an in-depth understanding of the recovery process Understand continuous security monitoring and how to implement a vulnerability management strategy Learn how to perform log analysis to identify suspicious activities Who this book is for This book aims at IT professional who want to venture the IT security domain. IT pentester, Security consultants, and ethical hackers will also find this course useful. Prior knowledge of penetration testing would be beneficial.

Tribal Knowledge from the Best in Defensive Cybersecurity "O'Reilly Media, Inc."

Blue Team Handbook: SOC, SIEM, and Threat Hunting Use Cases is having an amazing impact on Security Operations worldwide. BTHb:SOCTH is the go to guiding book for new staff at a top 10 MSSP, integrated into University curriculum, and cited in top ten courses from a major information security training company. This listing is for V1.02.BTHb:SOCTH provides the security practitioner with numerous field notes on building a security operations team, managing SIEM, and mining data sources to get the maximum amount of information out of them with a threat hunting approach. The author shares his fifteen years of experience with SIEMs and security operations is a no frills, just information format. Don Murdoch has implemented five major platforms, integrated over one hundred data sources into various platforms, and ran an MSSP practice for two years.This book covers the topics below using a "zero fluff" approach as if you hired him as a security consultant and were sitting across the table with him (or her).The book begins with a discussion for professionals to help them build a successful business case and a project plan, decide on SOC tier models, anticipate and answer tough questions you need to consider when proposing a SOC, and considerations in building a logging infrastructure. The book goes through numerous data sources that feed a SOC and SIEM and provides specific real world guidance on how to use those data sources to best possible effect. Most of the examples presented were implemented in one organization or another. These uses cases explain on what to monitor, how to use a SIEM and how to use the data coming into the platform, both questions that Don found is often answered poorly by many vendors. Several business concepts are also introduced, because they are often overlooked by IT: value chain, PESTL, and SWOT. Major sections include:An inventory of Security Operations Center (SOC) Services.Metrics, with a focus on objective measurements for the SOC, for analysts, and for SIEM's.SOC staff onboarding, training topics, and desirable skills. Along these lines, there is a chapter on a day in the life of a SOC analyst.Maturity analysis for the SOC and the log management program. Applying a Threat Hunt mindset to the SOC. A full use case template that was used within two major Fortune 500 companies, and is in active use by one major SIEM vendor, along with a complete example of how to build a SOC and SIEM focused use case. You can see the corresponding discussion of this chapter on YouTube. Just search for the 2017 Security Onion conference for the presentation.Critical topics in deploying SIEM based on experience deploying five different technical platforms for nineteen different organizations in education, nonprofit, and commercial enterprises from 160 to 30,000 personnel.Understanding why SIEM deployments fail with actionable compensators. Real life experiences getting data into SIEM platforms and the considerations for the many different ways to provide data. Issues relating to time, time management, and time zones.

Blue Team Handbook: SOC, SIEM, and Threat Hunting (V1. 02) Packt Publishing Ltd

This book is a comprehensive guide for organizations on how to prepare for cyber-attacks, control cyber threats and network security breaches in a way that decreases damage, recovery time, and costs, and adapt existing strategies to cloud-based environments.

Security Monitoring and Incident Response Master Plan John Wiley & Sons

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.

Deployment Strategies for Production Environments Newnes

The Wildland Fire Incident Management Field Guide is a revision of what used to be called the Fireline Handbook, PMS 410-1. This guide has been renamed because, over time, the original purpose of the Fireline Handbook had been replaced by the Incident Response Pocket Guide, PMS 461. As a result, this new guide is aimed at a different audience, and it was felt a new name was in order.

Intelligence-Driven Incident Response Elsevier

In The Practice of Network Security, former UUNet networkarchitect Allan Liska shows how to secure enterprise networks in thereal world - where you're constantly under attack and you don't alwaysget the support you need. Liska addresses every facet of networksecurity, including defining security models, access control,Web/DNS/email security, remote access and VPNs, wireless LAN/WANsecurity, monitoring, logging, attack response, and more. Includes adetailed case study on redesigning an insecure enterprise network formaximum security.

The Computer Incident Response Planning Handbook: Executable Plans for Protecting Information at Risk Independently Published

Create, maintain, and manage a continual cybersecurity incident response program using the practical steps presented in this book. Don't allow your cybersecurity incident responses (IR) to fall short of the mark due to lack of planning, preparation, leadership, and management support. Surviving an incident, or a breach, requires the best response possible. This book provides practical guidance for the containment, eradication, and recovery from cybersecurity events and incidents. The book takes the approach that incident response should be a continual program. Leaders must understand the organizational environment, the strengths and weaknesses of the program and team, and how to strategically respond. Successful behaviors and actions required for each phase of incident response are explored in the book. Straight from NIST 800-61, these actions include: Planning and practicing Detection Containment Eradication Post-incident actions What You'll Learn Know the sub-categories of the NIST Cybersecurity Framework Understand the components of incident response Go beyond the incident response plan Turn the plan into a program that needs vision, leadership, and culture to make it successful Be effective in your role on the incident response team Who This Book Is For Cybersecurity leaders, executives, consultants, and entry-level professionals responsible for executing the incident response plan when something goes wrong

Ask a Manager Createspace Independent Publishing Platform

Red teams can show flaws that exist in your network before they are compromised by malicious actors and blue teams traditionally assess current security measures and identify security flaws. The teams can provide valuable feedback to each other, but this is often overlooked, enter the purple team. The purple team allows for the integration of red team tactics and blue team security measures. The purple team field manual is a manual for all security professionals and integrates red and blue team methodologies.