Real Digital Forensics Computer Security And Incident Response

Cybersecurity Incident ResponseDigital Forensics and Incident ResponseDigital Forensics and Incident ResponseIncident Handling and ResponseHacker Techniques, Tools, and Incident HandlingIncident Response with Threat IntelligenceIncident Response Techniques for Ransomware AttacksDigital Forensics and Incident ResponseIncident Response in the Age of CloudIncident Management and Response GuideDevelopment and Evaluation of an Incident Response Database for Washington StateCertified Cyber Incident Response Manager: Course Workbook and Lab ExercisesCyber Breach Response That Actually WorksCyber Security Incident Response PlanSecurity Incidents & Response Against Cyber AttacksGuidance Document on the Implementation of an Incident Management System (IMS).Blue Team HandbookArterial Incident Management StudyIncident ResponseApplied Incident Response Eric C. Thompson Gerard Johansen Gerard Johansen Jithin Alex Sean-Philip Oriyano Roberto Martinez Oleg Skulkin Gerard Johansen Dr. Erdal Ozkaya Tom Olzak April Cutting Michael I. Kaplan Andrew Gorecki Mark Hayward Akashdeep Bhardwaj International Maritime Organization D. W. Murdoch R. A. Raub E. Eugene Schultz Steve Anson

Cybersecurity Incident Response Digital Forensics and Incident Response Digital Forensics and Incident Response Incident Handling and Response Hacker Techniques, Tools, and Incident Handling Incident Response with Threat Intelligence Incident Response Techniques for Ransomware Attacks Digital Forensics and Incident Response Incident Response in the Age of Cloud Incident Management and Response Guide Development and Evaluation of an Incident Response Database for Washington State Certified Cyber Incident Response Manager: Course Workbook and Lab Exercises Cyber Breach Response That Actually Works Cyber Security Incident Response Plan Security Incidents & Response Against Cyber Attacks Guidance Document on the Implementation of an Incident Management System (IMS). Blue Team Handbook Arterial Incident Management Study Incident Response Applied Incident Response *Eric C. Thompson Gerard Johansen Gerard Johansen Jithin Alex Sean-Philip Oriyano Roberto Martinez Oleg Skulkin Gerard Johansen Dr. Erdal Ozkaya Tom Olzak April Cutting Michael I. Kaplan Andrew Gorecki Mark Hayward Akashdeep Bhardwaj International Maritime Organization D. W. Murdoch R. A. Raub E. Eugene Schultz Steve Anson*

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

build your organization s cyber defense system by effectively implementing digital forensics and incident management techniques key features create a solid incident response framework and manage cyber incidents effectively perform malware analysis for effective incident response explore real life scenarios that effectively use threat intelligence and modeling techniques book descriptionan understanding of how digital forensics integrates with the overall response to cybersecurity incidents is key to securing your organization s infrastructure from attacks this updated second edition will help you perform cutting edge digital forensic activities and incident response after focusing on the fundamentals of incident response that are critical to any information security team you ll move on to exploring the incident response framework from understanding its importance to creating a swift and effective response to security incidents the book will guide you with the help of useful examples you ll later get up to speed with digital forensic techniques from acquiring evidence and examining volatile memory through to hard drive examination and network based evidence as you progress you ll discover the role that threat intelligence plays in the incident response process you ll also learn how to prepare an incident response report that documents the findings of your analysis finally in addition to various incident response activities the book will address malware analysis and demonstrate how you can proactively use your digital forensic skills in threat hunting by the end of this book you ll have learned how to efficiently investigate and report unwanted security breaches and incidents in your organization what you will learn create and deploy an incident response capability within your own organization perform proper evidence

acquisition and handling analyze the evidence collected and determine the root cause of a security incident become well versed with memory and log analysis integrate digital forensic techniques and procedures into the overall incident response process understand the different techniques for threat hunting write effective incident reports that document the key findings of your analysis who this book is for this book is for cybersecurity and information security professionals who want to implement digital forensics and incident response in their organization you will also find the book helpful if you are new to the concept of digital forensics and are looking to get started with the fundamentals a basic understanding of operating systems and some knowledge of networking fundamentals are required to get started with this book

incident response tools and techniques for effective cyber threat response key features create a solid incident response framework and manage cyber incidents effectively learn to apply digital forensics tools and techniques to investigate cyber threats explore the real world threat of ransomware and apply proper incident response techniques for investigation and recovery book descriptionan understanding of how digital forensics integrates with the overall response to cybersecurity incidents is key to securing your organization s infrastructure from attacks this updated third edition will help you perform cutting edge digital forensic activities and incident response with a new focus on responding to ransomware attacks after covering the fundamentals of incident response that are critical to any information security team you ll explore incident response frameworks from understanding their importance to creating a swift and effective response to security incidents the book will guide you using examples later you ll cover digital forensic techniques from acquiring evidence and examining volatile memory through to hard drive examination and network based evidence you ll be able to apply these techniques to the current threat of ransomware as you progress you ll discover the role that threat intelligence plays in the incident response process you ll also learn how to prepare an incident response report that documents the findings of your analysis finally in addition to various incident response activities the book will address malware analysis and demonstrate how you can proactively use your digital forensic skills in threat hunting by the end of this book you ll be able to investigate and report unwanted security breaches and incidents in your organization what you will learn create and deploy an incident response capability within your own organization perform proper evidence acquisition and handling analyze the evidence collected and determine the root cause of a security incident integrate digital forensic techniques and procedures into the overall incident response process understand different techniques for threat hunting write incident reports that document the key findings of your analysis apply incident response practices to ransomware attacks leverage cyber threat intelligence to augment digital forensics findings who this book is for this book is for cybersecurity and information security professionals who want to implement digital forensics and incident response in their organizations you

ll also find the book helpful if you re new to the concept of digital forensics and looking to get started with the fundamentals a basic understanding of operating systems and some knowledge of networking fundamentals are required to get started with this book

as security professionals our job is to reduce the level of risk to our organization from cyber security threats however incident prevention is never 100 achievable so the best option is to have a proper and efficient security incident management established in the organizationthis book provides a holistic approach for an efficient it security incident management key topics includes 1 attack vectors and counter measures 2 detailed security incident handling framework explained in six phases preparation identification containment eradication recovery lessons learned follow up3 building an incident response plan and key elements for an efficient incident response 4 building play books 5 how to classify and prioritize incidents 6 proactive incident management 7 how to conduct a table top exercise 8 how to write an rca report incident report 9 briefly explained the future of incident management also includes sample templates on playbook table top exercise incident report guidebook

hacker techniques tools and incident handling begins with an examination of the landscape key terms and concepts that a security professional needs to know about hackers and computer criminals who break into networks steal information and corrupt data it goes on to review the technical overview of hacking how attacks target networks and the methodology they follow the final section studies those methods that are most effective when dealing with hacking attacks especially in an age of increased reliance on the written by a subject matter expert with numerous real world examples hacker techniques tools and incident handling provides readers with a clear comprehensive introduction to the many threats on our internet environment and security and what can be done to combat them instructor materials for hacker techniques tools and incident handling include powerpoint lecture slides exam questions case scenarios handouts

learn everything you need to know to respond to advanced cybersecurity incidents through threat hunting using threat intelligence key features understand best practices for detecting containing and recovering from modern cyber threats get practical experience embracing incident response using intelligence based threat hunting techniques implement and orchestrate different incident response monitoring intelligence and investigation platforms book description with constantly evolving cyber threats developing a cybersecurity incident response capability to identify and contain threats is indispensable for any organization regardless of its size this book covers theoretical concepts and a variety of real life scenarios that will help you to apply these concepts within your organization starting with the basics of incident response the

book introduces you to professional practices and advanced concepts for integrating threat hunting and threat intelligence procedures in the identification contention and eradication stages of the incident response cycle as you progress through the chapters you ll cover the different aspects of developing an incident response program you ll learn the implementation and use of platforms such as thehive and elk and tools for evidence collection such as velociraptor and kape before getting to grips with the integration of frameworks such as cyber kill chain and mitre att ck for analysis and investigation you ll also explore methodologies and tools for cyber threat hunting with sigma and yara rules by the end of this book you ll have learned everything you need to respond to cybersecurity incidents using threat intelligence what you will learn explore the fundamentals of incident response and incident management find out how to develop incident response capabilities understand the development of incident response plans and playbooks align incident response procedures with business continuity identify incident response requirements and orchestrate people processes and technologies discover methodologies and tools to integrate cyber threat intelligence and threat hunting into incident response who this book is for if you are an information security professional or anyone who wants to learn the principles of incident management first response threat hunting and threat intelligence using a variety of platforms and tools this book is for you although not necessary basic knowledge of linux windows internals and network protocols will be helpful

explore the world of modern human operated ransomware attacks along with covering steps to properly investigate them and collecting and analyzing cyber threat intelligence using cutting edge methods and tools key featuresunderstand modern human operated cyber attacks focusing on threat actor tactics techniques and procedurescollect and analyze ransomware related cyber threat intelligence from various sourcesuse forensic methods and tools to reconstruct ransomware attacks and prevent them in the early stagesbook description ransomware attacks have become the strongest and most persistent threat for many companies around the globe building an effective incident response plan to prevent a ransomware attack is crucial and may help you avoid heavy losses incident response techniques for ransomware attacks is designed to help you do just that this book starts by discussing the history of ransomware showing you how the threat landscape has changed over the years while also covering the process of incident response in detail you ll then learn how to collect and produce ransomware related cyber threat intelligence and look at threat actor tactics techniques and procedures next the book focuses on various forensic artifacts in order to reconstruct each stage of a human operated ransomware attack life cycle in the concluding chapters you ll get to grips with various kill chains and discover a new one the unified ransomware kill chain by the end of this ransomware book you ll be equipped with the skills you need to build an incident response strategy for all ransomware attacks what you will learnunderstand the modern ransomware threat

landscapeexplore the incident response process in the context of ransomwarediscover how to collect and produce ransomware related cyber threat intelligenceuse forensic methods to collect relevant artifacts during incident responseinterpret collected data to understand threat actor tactics techniques and proceduresunderstand how to reconstruct the ransomware attack kill chainwho this book is for this book is for security researchers security analysts or anyone in the incident response landscape who is responsible for building an incident response model for ransomware attacks a basic understanding of cyber threats will be helpful to get the most out of this book

a practical guide to deploying digital forensic techniques in response to cyber security incidents about this book learn incident response fundamentals and create an effective incident response framework master forensics investigation utilizing digital investigative techniques contains real life scenarios that effectively use threat intelligence and modeling techniques who this book is for this book is targeted at information security professionals forensics practitioners and students with knowledge and experience in the use of software applications and basic command line experience it will also help professionals who are new to the incident response digital forensics role within their organization what you will learn create and deploy incident response capabilities within your organization build a solid foundation for acquiring and handling suitable evidence for later analysis analyze collected evidence and determine the root cause of a security incident learn to integrate digital forensic techniques and procedures into the overall incident response process integrate threat intelligence in digital evidence analysis prepare written documentation for use internally or with external parties such as regulators or law enforcement agencies in detail digital forensics and incident response will guide you through the entire spectrum of tasks associated with incident response starting with preparatory activities associated with creating an incident response plan and creating a digital forensics capability within your own organization you will then begin a detailed examination of digital forensic techniques including acquiring evidence examining volatile memory hard drive assessment and network based evidence you will also explore the role that threat intelligence plays in the incident response process finally a detailed section on preparing reports will help you prepare a written report for use either internally or in a courtroom by the end of the book you will have mastered forensic techniques and incident response and you will have a solid foundation on which to increase your ability to investigate such incidents in your organization style and approach the book covers practical scenarios and examples in an enterprise setting to give you an understanding of how digital forensics integrates with the overall response to cyber security incidents you will also learn the proper use of tools and techniques to investigate common cyber security incidents such as malware infestation memory analysis disk analysis and network analysis

learn to identify security incidents and build a series of best practices to stop cyber attacks before they create serious consequences key featuresdiscover incident response ir from its evolution to implementationunderstand cybersecurity essentials and ir best practices through real world phishing incident scenariosexplore the current challenges in ir through the perspectives of leading expertsbook description cybercriminals are always in search of new methods to infiltrate systems quickly responding to an incident will help organizations minimize losses decrease vulnerabilities and rebuild services and processes in the wake of the covid 19 pandemic with most organizations gravitating towards remote working and cloud computing this book uses frameworks such as mitre att ck and the sans ir model to assess security risks the book begins by introducing you to the cybersecurity landscape and explaining why ir matters you will understand the evolution of ir current challenges key metrics and the composition of an ir team along with an array of methods and tools used in an effective ir process you will then learn how to apply these strategies with discussions on incident alerting handling investigation recovery and reporting further you will cover governing ir on multiple platforms and sharing cyber threat intelligence and the procedures involved in ir in the cloud finally the book concludes with an ask the experts chapter wherein industry experts have provided their perspective on diverse topics in the ir sphere by the end of this book you should become proficient at building and applying ir strategies pre emptively and confidently what you will learnunderstand ir and its significanceorganize an ir teamexplore best practices for managing attack situations with your ir teamform organize and operate a product security team to deal with product vulnerabilities and assess their severityorganize all the entities involved in product security responserespond to security vulnerabilities using tools developed by keepnet labs and binalyzeadapt all the above learnings for the cloudwho this book is for this book is aimed at first time incident responders cybersecurity enthusiasts who want to get into ir and anyone who is responsible for maintaining business security it will also interest cios cisos and members of ir soc and csirt teams however ir is not just about information technology or security teams and anyone with a legal hr media or other active business role would benefit from this book the book assumes you have some admin experience no prior dfir experience is required some infosec knowledge will be a plus but isn t mandatory

an incident management and response guide for it or security professionals wanting to establish or improve their incident response and overall security capabilities included are templates for response tools policies and plans this look into how to plan prepare and respond also includes links to valuable resources needed for planning training and overall management of a computer security incident response team

please read this workbook is one of 4 publications used for the certified cyber incident response manager course and is only meant to serve as a supplemental study aid for the exam prep guide listed below it is strongly recommended that the course workbook only be purchased with the exam prep guide c cirm exam prep guide amazon com dp 1734064048 course information phase2advantage com ccirm course description as organizations continue to rely on expanding infrastructure in an increasingly hostile threat landscape the escalation of incidents involving malicious actors poses critical risks to information systems and networks the ability to identify threats respond to incidents restore systems and enhance security postures is vital to the survival of the operation the certified cyber incident response manager certification course brings incident response core competencies to advanced levels by presenting students with 16 detailed learning objectives students will be provided with the knowledge and the practical skills needed to investigate and respond to network and system incidents with a specific focus on the identification and remediation of incidents involving host and network devices students will cover topics such as threat intelligence collection investigative techniques creating playbooks and malware triage practical lab exercises utilize wireshark a packet capturing tool used in real world investigations learning objectives domain 01 overview of the incident response life cycle domain 02 understanding the threat landscape domain 03 building an effective incident response capability domain 04 preparing for incident response investigations domain 05 vulnerability assessment and management domain 06 identifying network and system baselines domain 07 indicators of compromise and threat identification domain 08 investigative principles and lead development domain 09 threat intelligence collection and analysis domain 10 overview of data forensics and analysis domain 11 host based data collection practices domain 12 network based data collection practices domain 13 static and dynamic malware triage domain 14 incident containment and remediation domain 15 incident reporting and lessons learned domain 16 creating playbooks and response scenarios

you will be breached the only question is whether you ll be ready a cyber breach could cost your organization millions of dollars in 2019 the average cost of a cyber breach for companies was 3 9m a figure that is increasing 20 30 annually but effective planning can lessen the impact and duration of an inevitable cyberattack cyber breach response that actually works provides a business focused methodology that will allow you to address the aftermath of a cyber breach and reduce its impact to your enterprise this book goes beyond step by step instructions for technical staff focusing on big picture planning and strategy that makes the most business impact inside you ll learn what drives cyber incident response and how to build effective incident response capabilities expert author andrew gorecki delivers a vendor agnostic approach based on his experience with fortune 500 organizations understand the evolving threat landscape and learn how to address tactical and strategic challenges to build a

comprehensive and cohesive cyber breach response program discover how incident response fits within your overall information security program including a look at risk management build a capable incident response team and create an actionable incident response plan to prepare for cyberattacks and minimize their impact to your organization effectively investigate small and large scale incidents and recover faster by leveraging proven industry practices navigate legal issues impacting incident response including laws and regulations criminal cases and civil litigation and types of evidence and their admissibility in court in addition to its valuable breadth of discussion on incident response from a business strategy perspective cyber breach response that actually works offers information on key technology considerations to aid you in building an effective capability and accelerating investigations to ensure your organization can continue business operations during significant cyber events

this detailed description presents cyber security incident response plan as an exceptionally comprehensive practical and indispensable guide for every stage of incident management it successfully moves beyond theory to provide a complete actionable framework for building and maintaining organizational resilience key strengths and strategic value section focus value to the reader framework foundations standards classification the book establishes its authority by aligning the response framework with industry leading standards like nist sans and iso it covers the essential first steps defining incident types and classifying impact team process roles training and policy it focuses on the human element which is critical for response success it details team roles and responsibilities selection criteria and the development of clear communication protocols ensuring a well oiled machine during a crisis technology detection advanced tools and automation it provides technical depth by covering essential monitoring tools like siems ids ips and endpoint detection crucially it explores modern techniques like ai machine learning and automated threat intelligence showing readers how to evolve their detection capabilities response recovery actionable procedures the guide offers the most vital practical advice incident confirmation severity prioritization containment recovery and system hardening this covers the core real time actions necessary to minimize damage post incident future compliance forensics and learning it strategically addresses the aftermath covering legal regulatory and public relations concerns the inclusion of forensic data acquisition root cause analysis and lessons learned ensures the response program is based on continuous improvement and learning

this book provides use case scenarios of machine learning artificial intelligence and real time domains to supplement cyber security operations and proactively predict attacks and preempt cyber incidents the authors discuss cybersecurity incident planning starting from a draft response plan to assigning responsibilities to use of external

experts to equipping organization teams to address incidents to preparing communication strategy and cyber insurance they also discuss classifications and methods to detect cybersecurity incidents how to organize the incident response team how to conduct situational awareness how to contain and eradicate incidents and how to cleanup and recover the book shares real world experiences and knowledge from authors from academia and industry

this publication prepared by the oprc hns technical group and approved by imo s marine environmental protection committee provides guidance on the establishment of an incident management system ims for marine pollution incidents an established ims provides for the safe effective and efficient management and deployment of resources for all types of emergency incidents it is essential for effective pollution incident management providing a clear command structure and well defined roles and responsibilities within an optimal span of control the ims is intended to be staffed and operated by qualified personnel from any agency and is scalable so that it can adapt organizationally based on the needs of the incident this guidance document would ideally be used during the contingency planning process in conjunction with the imo manual on oil pollution section ii contingency planning and section iv combating oil spills

this guide teaches security analysts to minimize information loss and system disruption using effective system monitoring and detection measures the information here spans all phases of incident response from pre incident conditions and considerations to post incident analysis this book will deliver immediate solutions to a growing audience eager to secure its networks

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

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Conclusion

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