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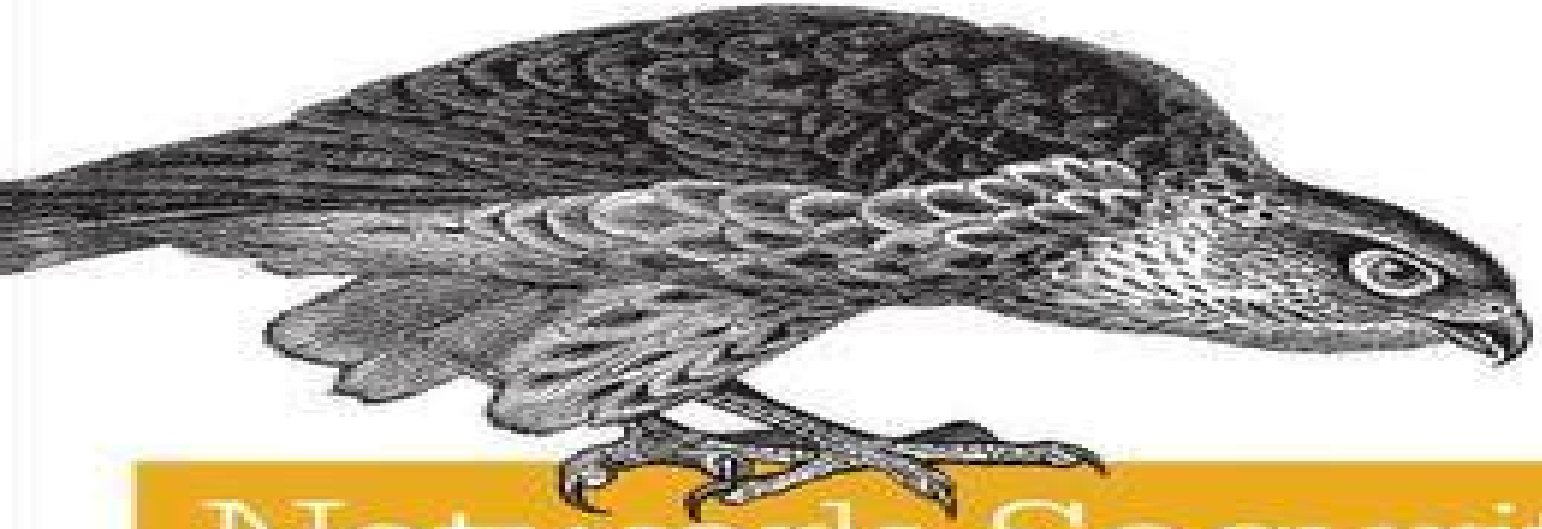

Network Security Through Data Analysis

BUILDING SITUATIONAL AWARENESS: 1 MILLION LOG RECORDS AT A TIME

Michael Collins

Network Security Through Data Analysis Building Situational Awareness Michael Collins

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Network Security Through Data Analysis Michael S Collins,Michael Collins,2014-02-10 In this practical guide security researcher Michael Collins shows you several techniques and tools for collecting and analyzing network traffic datasets You ll understand how your network is used and what actions are necessary to protect and improve it Divided into three sections this book examines the process of collecting and organizing data various tools for analysis and several different analytic scenarios and techniques **Network Security Through Data Analysis** Michael Collins,2017-09-08 Traditional intrusion detection and logfile analysis are no longer enough to protect today s complex networks In the updated second edition of this practical guide security researcher Michael Collins shows InfoSec personnel the latest techniques and tools for collecting and analyzing network traffic datasets You ll understand how your network is used and what actions are necessary to harden and defend the systems within it In three sections this book examines the process of collecting and organizing data various tools for analysis and several different analytic scenarios and techniques New chapters focus on active monitoring and traffic manipulation insider threat detection data mining regression and machine learning and other topics You ll learn how to Use sensors to collect network service host and active domain data Work with the SiLK toolset Python and other tools and techniques for manipulating data you collect Detect unusual phenomena through exploratory data analysis EDA using visualization and mathematical techniques Analyze text data traffic behavior and communications mistakes Identify significant structures in your network with graph analysis Examine insider threat data and acquire threat intelligence Map your network and identify significant hosts within it Work with operations to develop defenses and analysis techniques

Essential Cybersecurity Science Josiah Dykstra,2015-12-08 If you re involved in cybersecurity as a software developer forensic investigator or network administrator this practical guide shows you how to apply the scientific method when assessing techniques for protecting your information systems You ll learn how to conduct scientific experiments on everyday tools and procedures whether you re evaluating corporate security systems testing your own security product or looking for bugs in a mobile game Once author Josiah Dykstra gets you up to speed on the scientific method he helps you focus on standalone domain specific topics such as cryptography malware analysis and system security engineering The latter chapters include practical case studies that demonstrate how to use available tools to conduct domain specific scientific experiments Learn the steps necessary to conduct scientific experiments in cybersecurity Explore fuzzing to test how your software handles various inputs Measure the performance of the Snort intrusion detection system Locate malicious needles in a haystack in your network and IT environment Evaluate cryptography design and application in IoT products Conduct an experiment to identify relationships between similar malware binaries Understand system level security requirements for enterprise networks and web services Network Security Through Data Analysis Michael Collins,2017-09-08 Traditional intrusion detection and logfile analysis are no longer enough to protect today s complex networks In the updated second

edition of this practical guide security researcher Michael Collins shows InfoSec personnel the latest techniques and tools for collecting and analyzing network traffic datasets You ll understand how your network is used and what actions are necessary to harden and defend the systems within it In three sections this book examines the process of collecting and organizing data various tools for analysis and several different analytic scenarios and techniques New chapters focus on active monitoring and traffic manipulation insider threat detection data mining regression and machine learning and other topics You ll learn how to Use sensors to collect network service host and active domain data Work with the SiLK toolset Python and other tools and techniques for manipulating data you collect Detect unusual phenomena through exploratory data analysis EDA using visualization and mathematical techniques Analyze text data traffic behavior and communications mistakes Identify significant structures in your network with graph analysis Examine insider threat data and acquire threat intelligence Map your network and identify significant hosts within it Work with operations to develop defenses and analysis techniques

Network Security Through Data Analysis Michael Collins,2014 **Situational Awareness in Computer Network Defense: Principles, Methods and Applications** Onwubiko, Cyril,Owens, Thomas,2012-01-31 This book provides academia and organizations insights into practical and applied solutions frameworks technologies and implementations for situational awareness in computer networks Provided by publisher **Guide to Vulnerability Analysis for Computer Networks and Systems** Simon Parkinson,Andrew Crampton,Richard Hill,2018-09-04 This professional guide and reference examines the challenges of assessing security vulnerabilities in computing infrastructure Various aspects of vulnerability assessment are covered in detail including recent advancements in reducing the requirement for expert knowledge through novel applications of artificial intelligence The work also offers a series of case studies on how to develop and perform vulnerability assessment techniques using start of the art intelligent mechanisms Topics and features provides tutorial activities and thought provoking questions in each chapter together with numerous case studies introduces the fundamentals of vulnerability assessment and reviews the state of the art of research in this area discusses vulnerability assessment frameworks including frameworks for industrial control and cloud systems examines a range of applications that make use of artificial intelligence to enhance the vulnerability assessment processes presents visualisation techniques that can be used to assist the vulnerability assessment process In addition to serving the needs of security practitioners and researchers this accessible volume is also ideal for students and instructors seeking a primer on artificial intelligence for vulnerability assessment or a supplementary text for courses on computer security networking and artificial intelligence **Scalable Framework for Cyber Threat Situational Awareness** Poornachandran Prabaharan,2023-05-25 Scalable Framework for Cyber Threat Situational Awareness is a comprehensive and practical guide that explores the development and implementation of a scalable framework for achieving effective cyber threat situational awareness Authored by cybersecurity experts and researchers this book serves as a valuable resource for security professionals analysts and decision makers

seeking to enhance their understanding of cyber threats and improve their response capabilities In this book the authors address the critical need for organizations to establish robust situational awareness capabilities to detect analyze and respond to cyber threats in real time They present a scalable framework that integrates various data sources analysis techniques and visualization tools to provide a holistic view of the evolving threat landscape Key topics covered in this book include Introduction to cyber threat situational awareness The authors provide an overview of the concept of cyber threat situational awareness its importance in modern cybersecurity and the challenges faced in achieving comprehensive awareness in dynamic and complex environments Scalable framework architecture The book presents the architecture of a scalable framework for cyber threat situational awareness It covers the integration of diverse data sources including network logs intrusion detection systems threat intelligence feeds and user behavior data The authors discuss the design principles and components necessary for building a scalable and adaptable framework Data collection and aggregation The authors delve into the process of collecting and aggregating data from various sources within the organization and external feeds They explore techniques for data normalization filtering and enrichment to ensure the availability of high quality data for analysis Threat detection and analysis The book covers advanced analytics techniques and algorithms for detecting and analyzing cyber threats It explores anomaly detection machine learning and behavioral analysis approaches to identify patterns indicators and potential threats within the data Visualization and reporting The authors discuss visualization tools and techniques for presenting cyber threat information in a meaningful and intuitive manner They highlight the importance of visualizing complex data to aid in decision making incident response and collaboration among security teams Incident response and mitigation The book explores strategies for incident response and mitigation based on the insights gained from the cyber threat situational awareness framework It covers incident triage prioritization and response coordination to ensure timely and effective actions against identified threats Scalability and adaptability The authors address the scalability and adaptability considerations of the framework enabling organizations to handle large volumes of data accommodate evolving threats and integrate new data sources and analysis techniques Integration with existing security systems The book provides guidance on integrating the cyber threat situational awareness framework with existing security systems such as security information and event management SIEM platforms intrusion detection systems IDS and security orchestration automation and response SOAR tools Emerging trends and future directions The authors discuss emerging trends and technologies in cyber threat situational awareness including threat intelligence sharing collaborative defense and leveraging artificial intelligence AI and machine learning ML for automated threat analysis Data Analysis For Network Cyber-security Niall M Adams,Nicholas A Heard,2014-04-04 There is increasing pressure to protect computer networks against unauthorized intrusion and some work in this area is concerned with engineering systems that are robust to attack However no system can be made invulnerable Data Analysis for Network Cyber Security focuses on monitoring and analyzing network traffic data

with the intention of preventing or quickly identifying malicious activity Such work involves the intersection of statistics data mining and computer science Fundamentally network traffic is relational embodying a link between devices As such graph analysis approaches are a natural candidate However such methods do not scale well to the demands of real problems and the critical aspect of the timing of communications events is not accounted for in these approaches This book gathers papers from leading researchers to provide both background to the problems and a description of cutting edge methodology The contributors are from diverse institutions and areas of expertise and were brought together at a workshop held at the University of Bristol in March 2013 to address the issues of network cyber security The workshop was supported by the Heilbronn Institute for Mathematical Research Building Open Source Network Security Tools Mike Schiffman,2002-12-03 Learn how to protect your network with this guide to building complete and fully functional network security tools Although open source network security tools come in all shapes and sizes a company will eventually discover that these tools are lacking in some area whether it s additional functionality a specific feature or a narrower scope Written by security expert Mike Schiffman this comprehensive book will show you how to build your own network security tools that meet the needs of your company To accomplish this you ll first learn about the Network Security Tool Paradigm in addition to currently available components including libpcap libnet libnids libsf libdnet and OpenSSL Schiffman offers a detailed discussion of these components helping you gain a better understanding of the native datatypes and exported functions Next you ll find several key techniques that are built from the components as well as easy to parse programming examples The book then ties the model code and concepts together explaining how you can use this information to craft intricate and robust security programs Schiffman provides you with cost effective time saving guidance on how to build customized network security tools using existing components He explores A multilayered model for describing network security tools The ins and outs of several specific security related components How to combine these components into several useful network security techniques Four different classifications for network security tools passive reconnaissance active reconnaissance attack and penetration and defensive How to combine techniques to build customized network security tools The companion Web site contains all of the code from the book **The Cyber Security Network Guide** Fiedelholtz,2020-11-11 This book presents a unique step by step approach for monitoring detecting analyzing and mitigating complex network cyber threats It includes updated processes in response to asymmetric threats as well as descriptions of the current tools to mitigate cyber threats Featuring comprehensive computer science material relating to a complete network baseline with the characterization hardware and software configuration the book also identifies potential emerging cyber threats and the vulnerabilities of the network architecture to provide students with a guide to responding to threats The book is intended for undergraduate and graduate college students who are unfamiliar with the cyber paradigm and processes in responding to attacks **Meeting Security Challenges through Data Analytics and Decision Support** Galina Rogova,2016-11-15 The sheer quantity of

widely diverse data which now results from multiple sources presents a problem for decision makers and analysts who are finding it impossible to cope with the ever increasing flow of material This has potentially serious consequences for the quality of decisions and operational processes in areas such as counterterrorism and security This book presents the papers delivered at the NATO Advanced Research Workshop ARW Meeting Security Challenges through Data Analytics and Decision Support held in Aghveran Armenia in June 2015 The aim of the conference was to promote and enhance cooperation and dialogue between NATO and Partner countries on the subject of effective decision support for security applications The attendance of many leading scientists from a variety of backgrounds and disciplines provided the opportunity to improve mutual understanding as well as cognizance of the specific requirements and issues of Cyber Physical Social Systems CPPS and the technical advances pertinent to all collaborative human centric information support systems in a variety of applications The book is divided into 3 sections counter terrorism methodology and applications maritime and border security and cyber security and will be of interest to all those involved in decision making processes based on the analysis of big data **Network Security: The Complete Reference** Roberta Bragg,Mark Rhodes-Ousley,Keith Strassberg,2004 Teaches end to end network security concepts and techniques Includes comprehensive information on how to design a comprehensive security defense model Plus discloses how to develop and deploy computer personnel and physical security policies how to design and manage authentication and authorization methods and much more *Situational Awareness Analysis Tools for Aiding Discovery of Security Events and Patterns* ,2005 The goal of the effort was to develop a comprehensive situational awareness analysis tool for discovery of intrusive behavior in information infrastructures and understanding anomalous network traffic The University of Minnesota team has developed a comprehensive multi stage analysis framework which provides tools and analysis methodologies to aid cyber security analysts in improving the quality and productivity of their analyses It consists of several components various Level I sensors and analysis modules for detecting suspicious or anomalous events and activities the output of which are then fed into a multi step Level II analysis system the core of the analysis framework that correlate and fuse Level I sensor data and alerts extract likely attack contexts and produce sequences of attack events to build a plausible attack scenario Data Science For Cyber-security Nicholas A Heard,Niall M Adams,Patrick Rubin-delanchy,Mellisa Turcotte,2018-09-26 Cyber security is a matter of rapidly growing importance in industry and government This book provides insight into a range of data science techniques for addressing these pressing concerns The application of statistical and broader data science techniques provides an exciting growth area in the design of cyber defences Networks of connected devices such as enterprise computer networks or the wider so called Internet of Things are all vulnerable to misuse and attack and data science methods offer the promise to detect such behaviours from the vast collections of cyber traffic data sources that can be obtained In many cases this is achieved through anomaly detection of unusual behaviour against understood statistical models of normality This volume presents contributed

papers from an international conference of the same name held at Imperial College Experts from the field have provided their latest discoveries and review state of the art technologies **Network Security Monitoring** Frederick a Middlebush Professor of History Robert Collins,Robert Collins,2017-10-17 This book is a guide on network security monitoring The author begins by explaining some of the basics of computer networking and the basic tools which can be used for monitoring a computer network The process of capturing and analyzing the packets of a network is discussed in detail This is a good technique which can help network security experts identify anomalies or malicious attacks on the packets transmitted over a network You are also guided on how to monitor the network traffic for the Heartbleed bug which is very vulnerable to network attackers Session data is very essential for network security monitoring The author guides you on how to use the session data so as to monitor the security of your network The various techniques which can be used for network intrusion detection and prevention are explored You are also guided on how to use the Security Onion to monitor the security of your network The various tools which can help in network security monitoring are discussed The following topics are discussed in this book Network Monitoring Basics Packet Analysis Detecting the Heartbleed Bug Session Data Application Layer Metadata URL Search Intrusion Detection and Prevention Security Onion Big Data Analytics in Cybersecurity Onur Savas,Julia Deng,2017-09-18 Big data is presenting challenges to cybersecurity For an example the Internet of Things IoT will reportedly soon generate a staggering 400 zettabytes ZB of data a year Self driving cars are predicted to churn out 4000 GB of data per hour of driving Big data analytics as an emerging analytical technology offers the capability to collect store process and visualize these vast amounts of data Big Data Analytics in Cybersecurity examines security challenges surrounding big data and provides actionable insights that can be used to improve the current practices of network operators and administrators Applying big data analytics in cybersecurity is critical By exploiting data from the networks and computers analysts can discover useful network information from data Decision makers can make more informative decisions by using this analysis including what actions need to be performed and improvement recommendations to policies guidelines procedures tools and other aspects of the network processes Bringing together experts from academia government laboratories and industry the book provides insight to both new and more experienced security professionals as well as data analytics professionals who have varying levels of cybersecurity expertise It covers a wide range of topics in cybersecurity which include Network forensics Threat analysis Vulnerability assessment Visualization Cyber training In addition emerging security domains such as the IoT cloud computing fog computing mobile computing and cyber social networks are examined The book first focuses on how big data analytics can be used in different aspects of cybersecurity including network forensics root cause analysis and security training Next it discusses big data challenges and solutions in such emerging cybersecurity domains as fog computing IoT and mobile app security The book concludes by presenting the tools and datasets for future cybersecurity research *Cyber Operations* Mike O'Leary,2019-03-01 Know how to set up defend and attack computer networks with this

revised and expanded second edition You will learn to configure your network from the ground up beginning with developing your own private virtual test environment then setting up your own DNS server and AD infrastructure You will continue with more advanced network services web servers and database servers and you will end by building your own web applications servers including WordPress and Joomla Systems from 2011 through 2017 are covered including Windows 7 Windows 8 Windows 10 Windows Server 2012 and Windows Server 2016 as well as a range of Linux distributions including Ubuntu CentOS Mint and OpenSUSE Key defensive techniques are integrated throughout and you will develop situational awareness of your network and build a complete defensive infrastructure including log servers network firewalls web application firewalls and intrusion detection systems Of course you cannot truly understand how to defend a network if you do not know how to attack it so you will attack your test systems in a variety of ways You will learn about Metasploit browser attacks privilege escalation pass the hash attacks malware man in the middle attacks database attacks and web application attacks What You ll Learn Construct a testing laboratory to experiment with software and attack techniques Build realistic networks that include active directory file servers databases web servers and web applications such as WordPress and Joomla Manage networks remotely with tools including PowerShell WMI and WinRM Use offensive tools such as Metasploit Mimikatz Veil Burp Suite and John the Ripper Exploit networks starting from malware and initial intrusion to privilege escalation through password cracking and persistence mechanisms Defend networks by developing operational awareness using auditd and Sysmon to analyze logs and deploying defensive tools such as the Snort intrusion detection system IPFire firewalls and ModSecurity web application firewalls Who This Book Is For This study guide is intended for everyone involved in or interested in cybersecurity operations e g cybersecurity professionals IT professionals business professionals and students

Applied Network Security Monitoring Chris Sanders,Jason Smith,2013-11-26 Applied Network Security Monitoring is the essential guide to becoming an NSM analyst from the ground up This book takes a fundamental approach to NSM complete with dozens of real world examples that teach you the key concepts of NSM Network security monitoring is based on the principle that prevention eventually fails In the current threat landscape no matter how much you try motivated attackers will eventually find their way into your network At that point it is your ability to detect and respond to that intrusion that can be the difference between a small incident and a major disaster The book follows the three stages of the NSM cycle collection detection and analysis As you progress through each section you will have access to insights from seasoned NSM professionals while being introduced to relevant practical scenarios complete with sample data If you ve never performed NSM analysis Applied Network Security Monitoring will give you an adequate grasp on the core concepts needed to become an effective analyst If you are already a practicing analyst this book will allow you to grow your analytic technique to make you more effective at your job Discusses the proper methods for data collection and teaches you how to become a skilled NSM analyst Provides thorough hands on coverage of Snort Suricata Bro IDS SiLK and Argus Loaded with

practical examples containing real PCAP files you can replay and uses Security Onion for all its lab examples Companion website includes up to date blogs from the authors about the latest developments in NSM Security, Privacy and Reliability in Computer Communications and Networks Kewei Sha,Aaron Striege,Min Song,2016-11-30 Future communication networks aim to build an intelligent and efficient living environment by connecting a variety of heterogeneous networks to fulfill complicated tasks These communication networks bring significant challenges in building secure and reliable communication networks to address the numerous threat and privacy concerns New research technologies are essential to preserve privacy prevent attacks and achieve the requisite reliability Security Privacy and Reliability in Computer Communications and Networks studies and presents recent advances reflecting the state of the art research achievements in novel cryptographic algorithm design intrusion detection privacy preserving techniques and reliable routing protocols Technical topics discussed in the book include Vulnerabilities and Intrusion DetectionCryptographic Algorithms and EvaluationPrivacy Reliable Routing Protocols This book is ideal for personnel in computer communication and networking industries as well as academic staff and collegial master Ph D students in computer science computer engineering cyber security information insurance and telecommunication systems

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Table of Contents Network Security Through Data Analysis Building Situational Awareness Michael Collins

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