

Network Attacks and Defenses

A Hands-on Approach



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Network Attacks And Defenses A Hands On Approach

Yuri Diogenes, Dr. Erdal Ozkaya



Network Attacks And Defenses A Hands On Approach:

Network Attacks and Defenses Zouheir Trabelsi, Kadhim Hayawi, Arwa Al Braiki, Sujith Samuel Mathew, 2012-10-29 The attacks on computers and business networks are growing daily and the need for security professionals who understand how malfeasants perform attacks and compromise networks is a growing requirement to counter the threat Network security education generally lacks appropriate textbooks with detailed hands on exercises that include both offensive and defensive techniques Using step by step processes to build and generate attacks using offensive techniques Network Attacks and Defenses A Hands on Approach enables students to implement appropriate network security solutions within a laboratory environment Topics covered in the labs include Content Addressable Memory CAM table poisoning attacks on network switches Address Resolution Protocol ARP cache poisoning attacks The detection and prevention of abnormal ARP traffic Network traffic sniffing and the detection of Network Interface Cards NICs running in promiscuous mode Internet Protocol Based Denial of Service IP based DoS attacks Reconnaissance traffic Network traffic filtering and inspection Common mechanisms used for router security and device hardening Internet Protocol Security Virtual Private Network IPsec VPN security solution protocols standards types and deployments Remote Access IPsec VPN security solution architecture and its design components architecture and implementations These practical exercises go beyond theory to allow students to better anatomize and elaborate offensive and defensive techniques Educators can use the model scenarios described in this book to design and implement innovative hands on security exercises Students who master the techniques in this book will be well armed to counter a broad range of network security threats

Automatic Defense Against Zero-day Polymorphic Worms in Communication Networks Mohssen Mohammed, Al-Sakib Khan Pathan, 2016-04-19 Able to propagate quickly and change their payload with each infection polymorphic worms have been able to evade even the most advanced intrusion detection systems IDS And because zero day worms require only seconds to launch flooding attacks on your servers using traditional methods such as manually creating and storing signatures to de

Advanced Computer and Communication Engineering Technology Hamzah Asyrani Sulaiman, Mohd Azlishah Othman, Mohd Fairuz Iskandar Othman, Yahaya Abd Rahim, Naim Che Pee, 2014-11-01 This book covers diverse aspects of advanced computer and communication engineering focusing specifically on industrial and manufacturing theory and applications of electronics communications computing and information technology Experts in research industry and academia present the latest developments in technology describe applications involving cutting edge communication and computer systems and explore likely future directions In addition access is offered to numerous new algorithms that assist in solving computer and communication engineering problems The book is based on presentations delivered at ICOCOE 2014 the 1st International Conference on Communication and Computer Engineering It will appeal to a wide range of professionals in the field including telecommunication engineers computer engineers and scientists researchers academics and students

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 Features Covers the latest security threats and defense strategies for 2020 Introduces techniques and skillsets required to conduct threat hunting and deal with a system breach Provides 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 more Book 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 learn The importance of having a solid foundation for your security posture Use cyber security kill chain to understand the attack strategy Boost your organization's cyber resilience by improving your security policies hardening your network implementing active sensors and leveraging threat intelligence Utilize the latest defense tools including Azure Sentinel and Zero Trust Network strategy Identify different types of cyberattacks such as SQL injection malware and social engineering threats such as phishing emails Perform an incident investigation using Azure Security Center and Azure Sentinel Get an in depth understanding of the disaster recovery process Understand how to consistently monitor security and implement a vulnerability management strategy for on premises and hybrid cloud Learn how to perform log analysis using the cloud to identify suspicious activities including logs from Amazon Web Services and Azure Who 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 Cloud Computing and Security Xingming Sun, Zhaoqing Pan, Elisa Bertino, 2018-09-25 This six volume set LNCS 11063 11068 constitutes the thoroughly refereed conference proceedings of the 4th International Conference on Cloud Computing and Security ICCCS 2018 held in Haikou China in June 2018 The 386 full papers of these six volumes were carefully reviewed and selected from 1743 submissions The papers cover ideas and achievements in the theory and practice of all areas of inventive systems which includes control artificial intelligence automation systems computing systems electrical and informative systems The six volumes are

arranged according to the subject areas as follows cloud computing cloud security encryption information hiding IoT security multimedia forensics **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

Principle of Architecture, Protocol, and Algorithms for CoG-MIN Hui Li,He Bai,2025-06-14 The Internet is the most important global infrastructure in the digital economy era Its role has shifted from simple information exchange to support all kinds of novel scenarios and applications Considering the diverse communication requirements the development trend of the future network should support various addressing methods such as IP address identity service content geographical location and other potential communication modes Therefore a co governed secure and evolvable novel network architecture is indispensable This Open Access book focuses on Co Governed Multi Identifier Network CoG MIN a promising future network architecture that provides an ecological solution for the sustainable evolution of packet networks The design of CoG MIN follows three main principles blockchain based global co governed among top level domains endogenous network security and sustainable evolution CoG MIN aims to promote peaceful orderly secure and sustainable development for the global computer network It will end the gridlock in which network systems need to be continuously upgraded due to the exponential scale expansion of addressing and routing on the current network layer In other words CoG MIN enables a variety of networks to coexist and transition naturally This will save countless establishment costs and take advantage of existing network equipment and devices This book provides important reference materials about the mentioned topic for the

research of computer network network security network communication and other disciplines *Intelligent Algorithms in Software Engineering* Radek Silhavy, 2020-08-08 This book gathers the refereed proceedings of the Intelligent Algorithms in Software Engineering Section of the 9th Computer Science On line Conference 2020 CSOC 2020 held on line in April 2020 Software engineering research and its applications to intelligent algorithms have now assumed an essential role in computer science research In this book modern research methods together with applications of machine and statistical learning in software engineering research are presented Modeling and Simulation of Computer Networks and Systems Faouzi Zarai, Petros Nicopolitidis, 2015-04-21 Modeling and Simulation of Computer Networks and Systems Methodologies and Applications introduces you to a broad array of modeling and simulation issues related to computer networks and systems It focuses on the theories tools applications and uses of modeling and simulation in order to effectively optimize networks It describes methodologies for modeling and simulation of new generations of wireless and mobiles networks and cloud and grid computing systems Drawing upon years of practical experience and using numerous examples and illustrative applications recognized experts in both academia and industry discuss Important and emerging topics in computer networks and systems including but not limited to modeling simulation analysis and security of wireless and mobiles networks especially as they relate to next generation wireless networks Methodologies strategies and tools and strategies needed to build computer networks and systems modeling and simulation from the bottom up Different network performance metrics including mobility congestion quality of service security and more Modeling and Simulation of Computer Networks and Systems is a must have resource for network architects engineers and researchers who want to gain insight into optimizing network performance through the use of modeling and simulation Discusses important and emerging topics in computer networks and Systems including but not limited to modeling simulation analysis and security of wireless and mobiles networks especially as they relate to next generation wireless networks Provides the necessary methodologies strategies and tools needed to build computer networks and systems modeling and simulation from the bottom up Includes comprehensive review and evaluation of simulation tools and methodologies and different network performance metrics including mobility congestion quality of service security and more Hacking Exposed Cisco Networks Andrew Vladimirov, Konstantin Gavrilenko, Andrei Mikhailovsky, 2006-01-06 Here is the first book to focus solely on Cisco network hacking security auditing and defense issues Using the proven Hacking Exposed methodology this book shows you how to locate and patch system vulnerabilities by looking at your Cisco network through the eyes of a hacker The book covers device specific and network centered attacks and defenses and offers real world case studies **A Beginner's Guide To Web Application Penetration Testing** Ali Abdollahi, 2025-01-07 A hands on beginner friendly intro to web application pentesting In A Beginner's Guide to Web Application Penetration Testing seasoned cybersecurity veteran Ali Abdollahi delivers a startlingly insightful and up to date exploration of web app pentesting In the book Ali takes a dual approach emphasizing both theory

and practical skills equipping you to jumpstart a new career in web application security You ll learn about common vulnerabilities and how to perform a variety of effective attacks on web applications Consistent with the approach publicized by the Open Web Application Security Project OWASP the book explains how to find exploit and combat the ten most common security vulnerability categories including broken access controls cryptographic failures code injection security misconfigurations and more A Beginner s Guide to Web Application Penetration Testing walks you through the five main stages of a comprehensive penetration test scoping and reconnaissance scanning gaining and maintaining access analysis and reporting You ll also discover how to use several popular security tools and techniques like as well as Demonstrations of the performance of various penetration testing techniques including subdomain enumeration with Sublist3r and Subfinder and port scanning with Nmap Strategies for analyzing and improving the security of web applications against common attacks including Explanations of the increasing importance of web application security and how to use techniques like input validation disabling external entities to maintain security Perfect for software engineers new to cybersecurity security analysts web developers and other IT professionals A Beginner s Guide to Web Application Penetration Testing will also earn a prominent place in the libraries of cybersecurity students and anyone else with an interest in web application security

Network Defense and Countermeasures William Easttom II, 2013-10-18 Everything you need to know about modern network attacks and defense in one book Clearly explains core network security concepts challenges technologies and skills Thoroughly updated for the latest attacks and countermeasures The perfect beginner s guide for anyone interested in a network security career Security is the IT industry s hottest topic and that s where the hottest opportunities are too Organizations desperately need professionals who can help them safeguard against the most sophisticated attacks ever created attacks from well funded global criminal syndicates and even governments Today security begins with defending the organizational network Network Defense and Countermeasures Second Edition is today s most complete easy to understand introduction to modern network attacks and their effective defense From malware and DDoS attacks to firewalls and encryption Chuck Easttom blends theoretical foundations with up to the minute best practice techniques Starting with the absolute basics he discusses crucial topics many security books overlook including the emergence of network based espionage and terrorism If you have a basic understanding of networks that s all the background you ll need to succeed with this book no math or advanced computer science is required You ll find projects questions exercises case studies links to expert resources and a complete glossary all designed to deepen your understanding and prepare you to defend real world networks Learn how to Understand essential network security concepts challenges and careers Learn how modern attacks work Discover how firewalls intrusion detection systems IDS and virtual private networks VPNs combine to protect modern networks Select the right security technologies for any network environment Use encryption to protect information Harden Windows and Linux systems and keep them patched Securely configure web browsers to resist attacks Defend against

malware Define practical enforceable security policies Use the 6 Ps to assess technical and human aspects of system security Detect and fix system vulnerability Apply proven security standards and models including Orange Book Common Criteria and Bell LaPadula Ensure physical security and prepare for disaster recovery Know your enemy learn basic hacking and see how to counter it Understand standard forensic techniques and prepare for investigations of digital crime **Applied**

Cryptography and Network Security Christina Pöpper,Lejla Batina,2024-02-29 The 3 volume set LNCS 14583 14585 constitutes the proceedings of the 22nd International Conference on Applied Cryptography and Network Security ACNS 2024 which took place in Abu Dhabi UAE in March 2024 The 54 full papers included in these proceedings were carefully reviewed and selected from 230 submissions They have been organized in topical sections as follows Part I Cryptographic protocols encrypted data signatures Part II Post quantum lattices wireless and networks privacy and homomorphic encryption symmetric crypto Part III Blockchain smart infrastructures systems and software attacks users and usability *The U.S.-China Military Scorecard* Eric Heginbotham,Michael Nixon,Forrest E. Morgan,2015-09-14 A RAND study analyzed trends in the development of Chinese and U S military capabilities in two scenarios centered on Taiwan and the Spratly Islands and multiple types of operations from 1996 to 2017 **Artificial Intelligence for Cyber Defense and Smart**

Policing S Vijayalakshmi,P Durgadevi,Lija Jacob,Balamurugan Balusamy,Parma Nand,2024-03-19 The future policing ought to cover identification of new assaults disclosure of new ill disposed patterns and forecast of any future vindictive patterns from accessible authentic information Such keen information will bring about building clever advanced proof handling frameworks that will help cops investigate violations Artificial Intelligence for Cyber Defense and Smart Policing will describe the best way of practicing artificial intelligence for cyber defense and smart policing Salient Features Combines AI for both cyber defense and smart policing in one place Covers novel strategies in future to help cybercrime examinations and police Discusses different AI models to fabricate more exact techniques Elaborates on problematization and international issues Includes case studies and real life examples This book is primarily aimed at graduates researchers and IT professionals Business executives will also find this book helpful **ICIW2012-Proceedings of the 7th International**

Conference on Information Warfare and Security Volodymyr Lysenko,2012 *Artificial Intelligence Technologies and Applications* Chenglizhao Chen,2024-02-15 Artificial Intelligence AI is rapidly becoming an inescapable part of modern life and the fact that AI technologies and applications will inevitably bring about significant changes in many industries and economies worldwide means that this field of research is currently attracting great interest This book presents the proceedings of ICAITA 2023 the 5th International Conference on Artificial Intelligence Technologies and Applications held as a hybrid event from 30 June to 2 July 2023 in Changchun China The conference provided an international forum for academic communication between experts and scholars in the field of AI promoting the interchange of scientific information between participants and establishing connections which may lead to collaboration research and development activities in related

fields The 126 papers included here were selected following a thorough review process and are divided into 4 sections covering AI simulation and mechatronics intelligent network architecture and system monitoring intelligent algorithm modeling and numerical analysis and intelligent graph recognition and information processing Topics addressed include artificial neural networks computational theories of learning intelligent system architectures pervasive computing and ambient intelligence and fuzzy logic and methods Covering a wide range of topics and applications current in AI research the book will be of interest to all those working in the field

Distributed Computing and Artificial Intelligence

Sigeru Omatu, Juan F. De Paz Santana, Sara Rodríguez González, Jose M. Molina, Ana M. Bernardos, Juan M. Corchado Rodríguez, 2012-03-23 The International Symposium on Distributed Computing and Artificial Intelligence 2012 DCAI 2012 is a stimulating and productive forum where the scientific community can work towards future cooperation in Distributed Computing and Artificial Intelligence areas This conference is a forum in which applications of innovative techniques for solving complex problems will be presented Artificial intelligence is changing our society Its application in distributed environments such as the internet electronic commerce environment monitoring mobile communications wireless devices distributed computing to mention only a few is continuously increasing becoming an element of high added value with social and economic potential in industry quality of life and research These technologies are changing constantly as a result of the large research and technical effort being undertaken in both universities and businesses The exchange of ideas between scientists and technicians from both the academic and industry sector is essential to facilitate the development of systems that can meet the ever increasing demands of today s society This edition of DCAI brings together past experience current work and promising future trends associated with distributed computing artificial intelligence and their application in order to provide efficient solutions to real problems This symposium is organized by the Bioinformatics Intelligent System and Educational Technology Research Group <http://bisite.usal.es> of the University of Salamanca The present edition will be held in Salamanca Spain from 28th to 30th March 2012

Dynamically Enabled Cyber Defense

Lin Yang, Quan Yu, 2021-06-08 The book puts forward dynamically enabled cyber defense technology as a solution to the system homogenization problem Based on the hierarchy of the protected information system entity the book elaborates on current mainstream dynamic defense technologies from four aspects the internal hardware platform software service information data and external network communication It also ascertains their possible evolution routes clarifies their relationship with existing security products and makes macro analyses and discussions on security gain and overall system efficiency of these technologies This book can be used as both a textbook for graduate courses related to electronic information as well as a reference for scientific researchers engaged in relevant research It helps graduate students majoring in electronics and information sciences to gain an understanding in dynamically enabled cyber defense Scientists and engineers specialising in network security research should also find this book to be a useful guide on recent developments in network security

Seven Deadliest Microsoft

Attacks Rob Kraus, Naomi Alpern, Brian Barber, Mike Borkin, 2010-03-01 Seven Deadliest Microsoft Attacks explores some of the deadliest attacks made against Microsoft software and networks and how these attacks can impact the confidentiality integrity and availability of the most closely guarded company secrets If you need to keep up with the latest hacks attacks and exploits effecting Microsoft products this book is for you It pinpoints the most dangerous hacks and exploits specific to Microsoft applications laying out the anatomy of these attacks including how to make your system more secure You will discover the best ways to defend against these vicious hacks with step by step instruction and learn techniques to make your computer and network impenetrable The book consists of seven chapters that cover the seven deadliest attacks against Microsoft software and networks attacks against Windows passwords escalation attacks stored procedure attacks mail service attacks client side ActiveX and macro attacks Web service attacks and multi tier attacks Each chapter provides an overview of a single Microsoft software product how it is used and some of the core functionality behind the software Furthermore each chapter explores the anatomy of attacks against the software the dangers of an attack and possible defenses to help prevent the attacks described in the scenarios This book will be a valuable resource for those responsible for oversight of network security for either small or large organizations It will also benefit those interested in learning the details behind attacks against Microsoft infrastructure products and services and how to defend against them Network administrators and integrators will find value in learning how attacks can be executed and transfer knowledge gained from this book into improving existing deployment and integration practices Windows Operating System Password Attacks Active Directory Escalation of Privilege SQL Server Stored Procedure Attacks Exchange Server Mail Service Attacks Office Macros and ActiveX Internet Information Services IIS Web Service Attacks SharePoint Multi tier Attacks

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