

SECURITY DATA VISUALIZATION

GRAPHICAL TECHNIQUES FOR NETWORK ANALYSIS

GREG CONTI



Security Data Visualization Graphical Techniques For Network Analysis

Walter Williams



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Security Data Visualization Greg Conti, 2007 An introduction to a range of cyber security issues explains how to utilize graphical approaches to displaying and understanding computer security data such as network traffic server logs and executable files offering guidelines for identifying a network attack how to assess a system for vulnerabilities with Afterglow and RUMINT visualization software and how to protect a system from additional attacks Original Intermediate **Advances in Human Factors in Cybersecurity** Denise Nicholson, 2017-06-13 This book reports on the latest research and developments in the field of cybersecurity placing special emphasis on personal security and new methods for reducing human error and increasing cyber awareness as well as innovative solutions for increasing the security of advanced Information Technology IT infrastructures It covers a broad range of topics including methods for human training novel Cyber Physical and Process Control Systems social economic and behavioral aspects of cyberspace issues concerning the cybersecurity index security metrics for enterprises risk evaluation and many others Based on the AHFE 2017 International Conference on Human Factors in Cybersecurity held on July 17 21 2017 in Los Angeles California USA the book not only presents innovative cybersecurity technologies but also discusses emerging threats current gaps in the available systems and future challenges that may be successfully overcome with the help of human factors research *Security and Privacy Management, Techniques, and Protocols* Maleh, Yassine, 2018-04-06 The security of information and communication technology is a high priority for any organization By examining the current problems and challenges this domain is facing more efficient strategies can be established to safeguard personal information against invasive pressures *Security and Privacy Management Techniques and Protocols* is a critical scholarly resource that examines emerging protocols and methods for effective management of information security at organizations Featuring coverage on a broad range of topics such as cryptography secure routing protocols and wireless security this book is geared towards academicians engineers IT specialists researchers and students seeking current research on security and privacy management Creating an Information Security Program from Scratch Walter Williams, 2021-09-15 This book is written for the first security hire in an organization either an individual moving into this role from within the organization or hired into the role More and more organizations are realizing that information security requires a dedicated team with leadership distinct from information technology and often the people who are placed into those positions have no idea where to start or how to prioritize There are many issues competing for their attention standards that say do this or do that laws regulations customer demands and no guidance on what is actually effective This book offers guidance on approaches that work for how you prioritize and build a comprehensive information security program that protects your organization While most books targeted at information security professionals explore specific subjects with deep expertise this book explores the depth and breadth of the field Instead of exploring a technology such as cloud security or a technique such as risk analysis this book places those into the

larger context of how to meet an organization's needs how to prioritize and what success looks like Guides to the maturation of practice are offered along with pointers for each topic on where to go for an in depth exploration of each topic Unlike more typical books on information security that advocate a single perspective this book explores competing perspectives with an eye to providing the pros and cons of the different approaches and the implications of choices on implementation and on maturity as often a choice on an approach needs to change as an organization grows and matures

Collaboration Meets Interactive Spaces Craig Anslow, Pedro Campos, Joaquim Jorge, 2017-01-09 This book explores the technological advances and social interactions between interactive spaces surfaces and devices aiming to provide new insights into emerging social protocols that arise from the experimentation and long term usage of interactive surfaces This edited volume brings together researchers from around the world who investigate interactive surfaces and interaction techniques within large displays wearable devices software development security and emergency management Providing both theory and practical case studies the authors look at current developments and challenges into 3D visualization large surfaces the interplay of mobile phone devices and large displays wearable systems and head mounted displays HMD S remote proxemics and interactive wall displays and how these can be employed throughout the home and work spaces Collaboration Meets Interactive Spaces is both for researchers and industry practitioners providing readers with a coherent narrative into the current state of the art within interactive surfaces and pervasive display technology providing necessary tools and techniques as interactive media increasingly permeates everyday contexts

Visualization for Computer Security John R. Goodall, Gregory Conti, Kwan-Liu Ma, 2008-09-16 This book constitutes the refereed proceedings of the 5th International Workshop on Visualization for Cyber Security held on September 15 2008 in Cambridge Massachusetts USA in conjunction with the 11th International Symposium on Recent Advances in Intrusion Detection RAID The 18 papers presented in this volume were carefully reviewed and selected from 27 submissions VizSec research has focused on helping human analysts to detect anomalies and patterns particularly in computer network defense This year's paper focus on bridging the gap between visualization and automation

Surface Computing and Collaborative Analysis Work Judith Brown, Jeff Wilson, Stevenson Gossage, Chris Hack, 2013-09-01 Large surface computing devices wall mounted or tabletop with touch interfaces and their application to collaborative data analysis an increasingly important and prevalent activity is the primary topic of this book Our goals are to outline the fundamentals of surface computing a still maturing technology review relevant work on collaborative data analysis describe frameworks for understanding collaborative processes and provide a better understanding of the opportunities for research and development We describe surfaces as display technologies with which people can interact directly and emphasize how interaction design changes when designing for large surfaces We review efforts to use large displays surfaces or mixed display environments to enable collaborative analytic activity Collaborative analysis is important in many domains but to provide concrete examples and a specific focus we frequently consider analysis work in the security

domain and in particular the challenges security personnel face in securing networks from attackers and intelligence analysts encounter when analyzing intelligence data Both of these activities are becoming increasingly collaborative endeavors and there are huge opportunities for improving collaboration by leveraging surface computing This work highlights for interaction designers and software developers the particular challenges and opportunities presented by interaction with surfaces We have reviewed hundreds of recent research papers and report on advancements in the fields of surface enabled collaborative analytic work interactive techniques for surface technologies and useful theory that can provide direction to interaction design work We also offer insight into issues that arise when developing applications for multi touch surfaces derived from our own experiences creating collaborative applications We present these insights at a level appropriate for all members of the software design and development team Table of Contents List of Figures Acknowledgments Figure Credits Purpose and Direction Surface Technologies and Collaborative Analysis Systems Interacting with Surface Technologies Collaborative Work Enabled by Surfaces The Theory and the Design of Surface Applications The Development of Surface Applications Concluding Comments Bibliography Authors Biographies

Digital Human Modeling and Applications in Health, Safety, Ergonomics and Risk Management. Human Communication, Organization and Work Vincent G. Duffy, 2020-07-10 This two volume set LNCS 12198 and 12199 constitutes the thoroughly refereed proceedings of the 11th International Conference on Digital Human Modeling and Applications in Health Safety Ergonomics and Risk Management DHM 2020 which was supposed to be held as part of the 22st HCI International Conference HCII 2020 in Copenhagen Denmark in July 2020 The conference was held virtually due to the COVID 19 pandemic A total of 1439 papers and 238 posters have been carefully reviewed and accepted for publication in HCII 2020 DHM 2020 includes a total of 77 papers they were organized in topical sections named Part I Posture Motion and Health Posture and motion modelling in design ergonomics and occupational health applications for exercising physical therapy and rehabilitation health services DHM for aging support Part II Human Communication Organization and Work Modelling human communication modelling work collaboration and the human environment addressing ethical and societal challenges new research issues and approaches in digital human modelling

Advances in Digital Forensics VIII Gilbert Peterson, Sujeet Sheno, 2012-12-09 Digital forensics deals with the acquisition preservation examination analysis and presentation of electronic evidence Networked computing wireless communications and portable electronic devices have expanded the role of digital forensics beyond traditional computer crime investigations Practically every crime now involves some aspect of digital evidence digital forensics provides the techniques and tools to articulate this evidence Digital forensics also has myriad intelligence applications Furthermore it has a vital role in information assurance investigations of security breaches yield valuable information that can be used to design more secure systems *Advances in Digital Forensics VIII* describes original research results and innovative applications in the discipline of digital forensics In addition it highlights some of the major technical and legal issues related to digital

evidence and electronic crime investigations The areas of coverage include themes and issues forensic techniques mobile phone forensics cloud forensics network forensics and advanced forensic techniques This book is the eighth volume in the annual series produced by the International Federation for Information Processing IFIP Working Group 11.9 on Digital Forensics an international community of scientists engineers and practitioners dedicated to advancing the state of the art of research and practice in digital forensics The book contains a selection of twenty two edited papers from the Eighth Annual IFIP WG 11.9 International Conference on Digital Forensics held at the University of Pretoria Pretoria South Africa in the spring of 2012 Advances in Digital Forensics VIII is an important resource for researchers faculty members and graduate students as well as for practitioners and individuals engaged in research and development efforts for the law enforcement and intelligence communities Gilbert Peterson is an Associate Professor of Computer Engineering at the Air Force Institute of Technology Wright Patterson Air Force Base Ohio USA Sujeet Shenoi is the F. P. Walter Professor of Computer Science and a Professor of Chemical Engineering at the University of Tulsa Tulsa Oklahoma USA

Hacking: The Art of Exploitation, 2nd Edition Jon Erickson, 2008-02-01 Hacking is the art of creative problem solving whether that means finding an unconventional solution to a difficult problem or exploiting holes in sloppy programming Many people call themselves hackers but few have the strong technical foundation needed to really push the envelope Rather than merely showing how to run existing exploits author Jon Erickson explains how arcane hacking techniques actually work To share the art and science of hacking in a way that is accessible to everyone Hacking The Art of Exploitation 2nd Edition introduces the fundamentals of C programming from a hacker's perspective The included LiveCD provides a complete Linux programming and debugging environment all without modifying your current operating system Use it to follow along with the book's examples as you fill gaps in your knowledge and explore hacking techniques on your own Get your hands dirty debugging code overflowing buffers hijacking network communications bypassing protections exploiting cryptographic weaknesses and perhaps even inventing new exploits This book will teach you how to Program computers using C assembly language and shell scripts Corrupt system memory to run arbitrary code using buffer overflows and format strings Inspect processor registers and system memory with a debugger to gain a real understanding of what is happening Outsmart common security measures like nonexecutable stacks and intrusion detection systems Gain access to a remote server using port binding or connect back shellcode and alter a server's logging behavior to hide your presence Redirect network traffic conceal open ports and hijack TCP connections Crack encrypted wireless traffic using the FMS attack and speed up brute force attacks using a password probability matrix Hackers are always pushing the boundaries investigating the unknown and evolving their art Even if you don't already know how to program Hacking The Art of Exploitation 2nd Edition will give you a complete picture of programming machine architecture network communications and existing hacking techniques Combine this knowledge with the included Linux environment and all you need is your own creativity

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