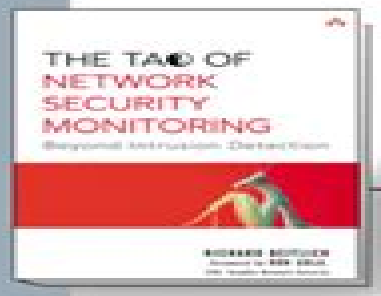

RICHARD BEJTLICH
Foreword by Ron Gula

THE TAO OF NETWORK SECURITY MONITORING

Beyond Intrusion Detection

Every network can be compromised. There are too many systems, offering too many services, running too many flawed applications. No amount of careful coding, patch management, or access control can keep out every attacker. If prevention eventually fails, how do you prepare for the intrusions that will eventually happen?

Network security monitoring (NSM) equips security staff to deal with the inevitable consequences of too few resources and too many responsibilities. NSM collects the data needed to generate better assessment, detection, and response processes—resulting in decreased impact from unauthorized activities.

In *The Tao of Network Security Monitoring*, Richard Bejtlich explores the products, people, and processes that implement the NSM model. By focusing on case studies and the application of open source tools, he helps you gain hands-on knowledge of how to better defend networks and how to mitigate damage from security incidents.

Inside, you will find in-depth information on the following areas.

- The NSM operational framework and deployment considerations.
- How to use a variety of open-source tools—including Sguil, Argus, and Ethereal—to mine network traffic for full content, session, statistical, and alert data.
- Best practices for conducting emergency NSM in an incident response scenario, evaluating monitoring vendors, and deploying an NSM architecture.
- Developing and applying knowledge of weapons, tactics, telecommunications, system administration, scripting, and programming for NSM.
- The best tools for generating arbitrary packets, exploiting flaws, manipulating traffic, and conducting reconnaissance.

Whether you are new to network intrusion detection and incident response, or a computer-security veteran, this book will enable you to quickly develop and apply the skills needed to detect, prevent, and respond to new and emerging threats.

©2005, Paper, 832 pages,
0-321-24677-2, $49.99

About the Author

RICHARD BEJTLICH
Former military intelligence officer Richard Bejtlich is a security engineer at ManTech International Corporation's Computer Forensics and Intrusion Analysis division. A recognized authority on computer security, he has extensive experience with network security monitoring, incident response, and digital forensics. Richard tests and writes documentation for Sguil, an open source GUI for the Snort intrusion detection engine. He also maintains the TaoSecurity Blog at http://taosecurity.blogspot.com.

Addison Wesley

The Tao Of Network Security Monitoring Beyond Intrusion Detection

Richard Bejtlich

The Tao Of Network Security Monitoring Beyond Intrusion Detection:

The Tao of Network Security Monitoring Richard Bejtlich,2004-07-12 The book you are about to read will arm you with the knowledge you need to defend your network from attackers both the obvious and the not so obvious If you are new to network security don t put this book back on the shelf This is a great book for beginners and I wish I had access to it many years ago If you ve learned the basics of TCP IP protocols and run an open source or commercial IDS you may be asking What s next If so this book is for you Ron Gula founder and CTO Tenable Network Security from the Foreword Richard Bejtlich has a good perspective on Internet security one that is orderly and practical at the same time He keeps readers grounded and addresses the fundamentals in an accessible way Marcus Ranum TruSecure This book is not about security or network monitoring It s about both and in reality these are two aspects of the same problem You can easily find people who are security experts or network monitors but this book explains how to master both topics Luca Deri ntop org This book will enable security professionals of all skill sets to improve their understanding of what it takes to set up maintain and utilize a successful network intrusion detection strategy Kirby Kuehl Cisco Systems Every network can be compromised There are too many systems offering too many services running too many flawed applications No amount of careful coding patch management or access control can keep out every attacker If prevention eventually fails how do you prepare for the intrusions that will eventually happen Network security monitoring NSM equips security staff to deal with the inevitable consequences of too few resources and too many responsibilities NSM collects the data needed to generate better assessment detection and response processes resulting in decreased impact from unauthorized activities In The Tao of Network Security Monitoring Richard Bejtlich explores the products people and processes that implement the NSM model By focusing on case studies and the application of open source tools he helps you gain hands on knowledge of how to better defend networks and how to mitigate damage from security incidents Inside you will find in depth information on the following areas The NSM operational framework and deployment considerations How to use a variety of open source tools including Sguil Argus and Ethereal to mine network traffic for full content session statistical and alert data Best practices for conducting emergency NSM in an incident response scenario evaluating monitoring vendors and deploying an NSM architecture Developing and applying knowledge of weapons tactics telecommunications system administration scripting and programming for NSM The best tools for generating arbitrary packets exploiting flaws manipulating traffic and conducting reconnaissance Whether you are new to network intrusion detection and incident response or a computer security veteran this book will enable you to quickly develop and apply the skills needed to detect prevent and respond to new and emerging threats *The Tao of Network Security Monitoring* Richard Bejtlich,1900 The book you are about to read will arm you with the knowledge you need to defend your network from attackers both the obvious and the not so obvious If you are new to network security don t put this book back on the shelf This is a great book for beginners and I wish I had access to it many

years ago If you ve learned the basics of TCP IP protocols and run an open source or commercial IDS you may be asking What s next If so this book is for you Ron Gula founder and CTO Tenable Network Security from the Foreword Richard Bejtlich has a good perspective on *The Tao of Network Security Monitoring* Richard Bejtlich,2004 The Practice of Network Security Monitoring Richard Bejtlich,2013-07-15 Network security is not simply about building impenetrable walls determined attackers will eventually overcome traditional defenses The most effective computer security strategies integrate network security monitoring NSM the collection and analysis of data to help you detect and respond to intrusions In The Practice of Network Security Monitoring Mandiant CSO Richard Bejtlich shows you how to use NSM to add a robust layer of protection around your networks no prior experience required To help you avoid costly and inflexible solutions he teaches you how to deploy build and run an NSM operation using open source software and vendor neutral tools You ll learn how to Determine where to deploy NSM platforms and size them for the monitored networks Deploy stand alone or distributed NSM installations Use command line and graphical packet analysis tools and NSM consoles Interpret network evidence from server side and client side intrusions Integrate threat intelligence into NSM software to identify sophisticated adversaries There s no foolproof way to keep attackers out of your network But when they get in you ll be prepared The Practice of Network Security Monitoring will show you how to build a security net to detect contain and control them Attacks are inevitable but losing sensitive data shouldn t be Intrusion Detection Systems Pawel Skrobanek,2011-03-22 The current structure of the chapters reflects the key aspects discussed in the papers but the papers themselves contain more additional interesting information examples of a practical application and results obtained for existing networks as well as results of experiments confirming efficacy of a synergistic analysis of anomaly detection and signature detection and application of interesting solutions such as an analysis of the anomalies of user behaviors and many others Recent Advances in Information Systems and Technologies Álvaro Rocha,Ana Maria Correia,Hojjat Adeli,Luís Paulo Reis,Sandra Costanzo,2017-03-28 This book presents a selection of papers from the 2017 World Conference on Information Systems and Technologies WorldCIST 17 held between the 11st and 13th of April 2017 at Porto Santo Island Madeira Portugal WorldCIST is a global forum for researchers and practitioners to present and discuss recent results and innovations current trends professional experiences and challenges involved in modern Information Systems and Technologies research together with technological developments and applications The main topics covered are Information and Knowledge Management Organizational Models and Information Systems Software and Systems Modeling Software Systems Architectures Applications and Tools Multimedia Systems and Applications Computer Networks Mobility and Pervasive Systems Intelligent and Decision Support Systems Big Data Analytics and Applications Human Computer Interaction Ethics Computers Health Informatics Information Technologies in Education and Information Technologies in Radiocommunications **Security in Wireless Mesh Networks** Yan Zhang,Jun Zheng,Honglin Hu,2008-08-21 Wireless mesh networks WMN encompass a new

area of technology set to play an important role in the next generation wireless mobile networks WMN is characterized by dynamic self organization self configuration and self healing to enable flexible integration quick deployment easy maintenance low costs high scalability and reliable services Threats, Countermeasures, and Advances in Applied Information Security Gupta, Manish,2012-04-30 Organizations are increasingly relying on electronic information to conduct business which has caused the amount of personal information to grow exponentially Threats Countermeasures and Advances in Applied Information Security addresses the fact that managing information security program while effectively managing risks has never been so critical This book contains 24 chapters on the most relevant and important issues and advances in applied information security management The chapters are authored by leading researchers and practitioners in the field of information security from across the globe The chapters represent emerging threats and countermeasures for effective management of information security at organizations *Computer and Information Security Handbook* John R. Vacca,2017-05-10 Computer and Information Security Handbook Third Edition provides the most current and complete reference on computer security available in one volume The book offers deep coverage of an extremely wide range of issues in computer and cybersecurity theory applications and best practices offering the latest insights into established and emerging technologies and advancements With new parts devoted to such current topics as Cloud Security Cyber Physical Security and Critical Infrastructure Security the book now has 100 chapters written by leading experts in their fields as well as 12 updated appendices and an expanded glossary It continues its successful format of offering problem solving techniques that use real life case studies checklists hands on exercises question and answers and summaries Chapters new to this edition include such timely topics as Cyber Warfare Endpoint Security Ethical Hacking Internet of Things Security Nanoscale Networking and Communications Security Social Engineering System Forensics Wireless Sensor Network Security Verifying User and Host Identity Detecting System Intrusions Insider Threats Security Certification and Standards Implementation Metadata Forensics Hard Drive Imaging Context Aware Multi Factor Authentication Cloud Security Protecting Virtual Infrastructure Penetration Testing and much more Online chapters can also be found on the book companion website https www elsevier com books and journals book companion 9780128038437 Written by leaders in the field Comprehensive and up to date coverage of the latest security technologies issues and best practices Presents methods for analysis along with problem solving techniques for implementing practical solutions *Adversarial and Uncertain Reasoning for Adaptive Cyber Defense* Sushil Jajodia,George Cybenko,Peng Liu,Cliff Wang,Michael Wellman,2019-08-30 Today s cyber defenses are largely static allowing adversaries to pre plan their attacks In response to this situation researchers have started to investigate various methods that make networked information systems less homogeneous and less predictable by engineering systems that have homogeneous functionalities but randomized manifestations The 10 papers included in this State of the Art Survey present recent advances made by a large team of researchers working on the same US Department of Defense

Multidisciplinary University Research Initiative MURI project during 2013 2019 This project has developed a new class of technologies called Adaptive Cyber Defense ACD by building on two active but heretofore separate research areas Adaptation Techniques AT and Adversarial Reasoning AR AT methods introduce diversity and uncertainty into networks applications and hosts AR combines machine learning behavioral science operations research control theory and game theory to address the goal of computing effective strategies in dynamic adversarial environments

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