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Security Metrics Guide for Information Technology Systems

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COMPUTER SECURITY

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Nist Security Metrics Guide:

NIST Special Publication 800-55 Rev1 Security Metrics Guide for Information Technology Systems Nist, 2012-02-29 This is a Hard copy of the NIST Special Publication 800 55 Rev1 NIST Special Publication SP 800 55 This document is a guide for the specific development selection and implementation of information system level and program level measures to indicate the implementation efficiency effectiveness and impact of security controls and other security related activities It provides guidelines on how an organization through the use of measures identifies the adequacy of in place security controls policies and procedures It provides an approach to help management decide where to invest in additional information security resources identify and evaluate nonproductive security controls and prioritize security controls for continuous monitoring It explains the measurement development and implementation processes and how measures can be used to adequately justify information security investments and support risk based decisions The results of an effective information security measurement program can provide useful data for directing the allocation of information security resources and should simplify the preparation of performance related reports Successful implementation of such a program assists agencies in meeting the annual requirements of the Office of Management and Budget OMB to report the status of agency information security programs NIST Special Publication SP 800 55 Revision 1 expands upon NIST's previous work in the field of information security measures to provide additional program level guidelines for quantifying information security performance in support of organizational strategic goals The processes and methodologies described in this document link information system security performance to agency performance by leveraging agency level strategic planning processes By doing so the processes and methodologies help demonstrate how information security contributes to accomplishing agency strategic goals and objectives Performance measures developed according to this guide will enhance the ability of agencies to respond to a variety of federal government mandates and initiatives including FISMA This publication uses the security controls identified in NIST SP 800 53 Recommended Security Controls for Federal Information Systems as a basis for developing measures that support the evaluation of information security programs In addition to providing guidelines on developing measures the guide lists a number of candidate measures that agencies can tailor expand or use as models for developing other measures 1 While focused on NIST SP 800 53 security controls the process described in this guide can be applied to develop agency specific measures related to security controls that are not included in NIST SP 800 53 Disclaimer This hardcopy is not published by National Institute of Standards and Technology NIST the US Government or US Department of Commerce The publication of this document should not in any way imply any relationship or affiliation to the above named organizations and Government *Complete Guide to Security and Privacy Metrics* Debra S. Herrmann, 2007-01-22 This book defines more than 900 metrics measuring compliance with current legislation resiliency of security controls and return on investment It explains what needs to be measured why and how to measure it and how to tie

security and privacy metrics to business goals and objectives The metrics are scaled by information sensitivity asset criticality and risk aligned to correspond with different lateral and hierarchical functions designed with flexible measurement boundaries and can be implemented individually or in combination The text includes numerous examples and sample reports and stresses a complete assessment by evaluating physical personnel IT and operational security controls Official (ISC)2® Guide to the CISSP®-ISSEP® CBK® Susan Hansche,2005-09-29 The Official ISC 2 Guide to the CISSP ISSEP CBK provides an inclusive analysis of all of the topics covered on the newly created CISSP ISSEP Common Body of Knowledge The first fully comprehensive guide to the CISSP ISSEP CBK this book promotes understanding of the four ISSEP domains Information Systems Security Engineering ISSE Certification PRAGMATIC Security Metrics W. Krag Brotby,Gary Hinson,2016-04-19 Other books on information security metrics discuss number theory and statistics in academic terms Light on mathematics and heavy on utility PRAGMATIC Security Metrics Applying Metametrics to Information Security breaks the mold This is the ultimate how to do it guide for security metrics Packed with time saving tips the book offers easy to follow

Homeland Security: Guidance & Standards are Needed for Measuring the Effectiveness of Agencies' Facility Protection Efforts ,2006 **Technology assessment cybersecurity for critical infrastructure protection.** ,2004 Technology Assessment ,2004 **Advances in Information and Intelligent Systems** Zbigniew W Ras,William Ribarsky,2009-10-12 The College of Computing and Informatics CCI at UNC Charlotte has three departments Computer Science Software and Information Systems and Bioinformatics and Genomics The Department of Computer Science offers study in a variety of specialized computing areas such as database design knowledge systems computer graphics artificial intelligence computer networks game design visualization computer vision and virtual reality The Department of Software and Information Systems is primarily focused on the study of technologies and methodologies for information system architecture design implementation integration and management with particular emphasis on system security The Department of Bioinformatics and Genomics focuses on the discovery development and application of novel computational technologies to help solve important biological problems This volume gives an overview of research done by CCI faculty in the area of Information Intelligent Systems Presented papers focus on recent advances in four major directions Complex Systems Knowledge Management Knowledge Discovery and Visualization A major reason for producing this book was to demonstrate a new important thrust in academic research where college wide interdisciplinary efforts are brought to bear on large general and important problems As shown in the research described here these efforts need not be formally organized joint undertakings through parts could be but are rather a convergence of interests around grand themes Information Security in the Federal Government United States. Congress. House. Committee on Government Reform. Subcommittee on Technology, Information Policy, Intergovernmental Relations, and the Census,2004 Export Controls , The SIPRI export control project seeks to raise the quality of information and awareness of the current state of national and multilateral export control

systems primarily in Europe **Handbook of Research on ICTs and Management Systems for Improving Efficiency in Healthcare and Social Care** Cruz-Cunha, Maria Manuela, Miranda, Isabel Maria, Gonçalves, Patricia, 2013-04-30 Through the use of ICT tools such as the internet portals and telecommunication devices the quality of healthcare has improved in local and global health aiding in the development of a sustainable economy Handbook of Research on ICTs and Management Systems for Improving Efficiency in Healthcare and Social Care brings together a valuable research collection on ICT elements needed to improve communication and collaboration between global health institutes public and private organizations and foundations Highlighting the adoption and success factors in the development of technologies for healthcare this book is essential for IT professionals technology solution providers researchers and students interested in technology and its relationship with healthcare and social services Homeland security information sharing responsibilities, challenges, and key management issues , **Creating an Information Security Program from Scratch** Walter Williams, 2021-09-14 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 **Departments of Veterans Affairs and Housing and Urban Development, and Independent Agencies Appropriations for 2004** United States. Congress. House. Committee on Appropriations. Subcommittee on VA, HUD, and Independent Agencies, 2003 Departments of Veterans Affairs and Housing and Urban Development, and Independent Agencies Appropriations for 2004 United States. Congress. House. Committee on Appropriations. Subcommittee on VA, HUD, and Independent Agencies, 2003 *Guide to Security Assurance for Cloud Computing* Shao Ying Zhu, Richard Hill, Marcello Trovati, 2016-03-09 This practical and didactic text reference discusses the leading edge of secure cloud computing exploring the essential concepts and principles tools techniques and

deployment models in this field Enlightening perspectives are presented by an international collection of pre eminent authorities in cloud security assurance from both academia and industry Topics and features Describes the important general concepts and principles of security assurance in cloud based environments Presents applications and approaches to cloud security that illustrate the current state of the art Reviews pertinent issues in relation to challenges that prevent organizations moving to cloud architectures Provides relevant theoretical frameworks and the latest empirical research findings Discusses real world vulnerabilities of cloud based software in order to address the challenges of securing distributed software Highlights the practicalities of cloud security and how applications can assure and comply with legislation Includes review questions at the end of each chapter This Guide to Security Assurance for Cloud Computing will be of great benefit to a broad audience covering enterprise architects business analysts and leaders IT infrastructure managers cloud security engineers and consultants and application developers involved in system design and implementation The work is also suitable as a textbook for university instructors with the outline for a possible course structure suggested in the preface The editors are all members of the Computing and Mathematics Department at the University of Derby UK where Dr Shao Ying Zhu serves as a Senior Lecturer in Computing Dr Richard Hill as a Professor and Head of the Computing and Mathematics Department and Dr Marcello Trovati as a Senior Lecturer in Mathematics The other publications of the editors include the Springer titles Big Data Analytics and Cloud Computing Guide to Cloud Computing and Cloud Computing for Enterprise Architectures

Out of Many, One United States. Congress. House. Committee on Government Reform, 2003

Checkpoints in Cyberspace Roland L. Trope, Gregory E. Upchurch, 2005 This book maps the risk points that are emerging for cross border corporate transactions in the digital and Internet eras and in the new enforcement environment and explains the best practices to avert liability in cross border transactions

International Guide to Cyber Security Jody R. Westby, 2004 The book discussess the categories of infrastucture that require protection The issues associated with each and the responsibilities of the public and private sector in securing this infrastructure

Software Security Suhel Ahmad Khan, Rajeev Kumar, Raees Ahmad Khan, 2023-02-13 Software Security Concepts Practices is designed as a textbook and explores fundamental security theories that govern common software security technical issues It focuses on the practical programming materials that will teach readers how to implement security solutions using the most popular software packages It s not limited to any specific cybersecurity subtopics and the chapters touch upon a wide range of cybersecurity domains ranging from malware to biometrics and more Features The book presents the implementation of a unique socio technical solution for real time cybersecurity awareness It provides comprehensible knowledge about security risk protection estimation knowledge and governance Various emerging standards models metrics continuous updates and tools are described to understand security principals and mitigation mechanism for higher security The book also explores common vulnerabilities plaguing today s web applications The book is aimed primarily at advanced undergraduates and graduates

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