Gartner Magic Quadrant Application Security Testing

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Gartner Magic Quadrant Application Security Testing ***2021-12-11***

KELLEY DIAZ

UTM Security with Fortinet John Wiley & Sons
Traditionally, network security (firewalls to block unauthorized users, Intrusion Prevention Systems (IPS) to keep attackers out, Web filters to avoid misuse of Internet browsing, and antivirus software to block malicious programs) required separate boxes with increased cost and complexity. Unified Threat Management (UTM) makes network security less complex, cheaper, and more effective by consolidating all these components. This book explains the advantages of using UTM and how it works, presents best practices on deployment, and is a hands-on, step-by-step guide to deploying Fortinet's FortiGate in the enterprise. Provides tips, tricks, and proven suggestions and guidelines to set up FortiGate implementations Presents topics that are not covered (or are not covered in detail) by Fortinet’s documentation Discusses hands-on troubleshooting techniques at both the project deployment level and technical implementation area
Proceedings of International Conference on Smart Computing and Cyber Security CRC Press
In the 2010s, new technological and business trends threaten, or promise, to disrupt multiple industries to such a degree that we might be moving into a new and fourth industrial revolution. The background and content of these new developments are laid out in the book from a holistic perspective. Based on an outline of the nature and developments of the market economy, business, global business industries and IT, the new technological and business trends are thoroughly dealt with, including issues such as internet, mobile, cloud, big data, internet of things, 3D-printing, the sharing economy, social media, gamification, and the way they transform industries and businesses
T-Bytes Digital Customer Experience Industry. Academic Conferences and publishing limited
There is an intrinsic conflict between

creating secure systems and usable systems. But usability and security can be made synergistic by providing requirements and design tools with specific usable security principles earlier in the requirements and design phase. In certain situations, it is possible to increase usability and security by revisiting design decisions made in the past; in others, to align security and usability by changing the regulatory environment in which the computers operate. This book addresses creation of a usable security protocol for user authentication as a natural outcome of the requirements and design phase of the authentication method development life cycle.

Applications and Techniques in Information Security CRC Press
Your guide to planning and executing a complete mobile web strategy Revisit your approach to the mobile web—and deliver effective solutions that reach customers and clients on a variety of mobile devices. In this practical guide, web development luminary Dino Esposito shows you how to develop a solid mobile strategy for the enterprise, starting with an effective mobile website. You'll receive essential architectural and implementation guidance, as well as mobile-specific design patterns for building cross-platform and native applications. Discover how to: Architect a website accessible from many different mobile devices Implement design patterns specific to mobile app development Examine tools that enable you to write one codebase for many platforms Use technologies for building Windows Phone, iPhone, and Android apps Develop cross-platform app features, such as localization and offline behavior

Advanced Solutions in Diagnostics and Fault Tolerant Control River Publishers
Most organizations have been caught off-guard with the proliferation of smart devices. The IT organization was comfortable supporting the Blackberry due to its ease of implementation and maintenance. But the use of Android and iOS smart devices have created a maintenance nightmare not only for the IT organization but for the IT auditors as well. This book will serve as a guide to IT and Audit professionals on how to manage, secure and audit smart device. It provides guidance on the handling of corporate devices and the Bring Your Own Devices (BYOD) smart devices.

IFIP TC11 / WG11.3 Sixteenth Annual Conference on Data and Applications Security July 28–31, 2002, Cambridge, UK Springer
MACHINE LEARNING TECHNIQUES AND ANALYTICS FOR CLOUD SECURITY This book covers new methods, surveys, case studies, and policy with almost all machine learning techniques and analytics for cloud security solutions The aim of Machine Learning Techniques and Analytics for Cloud Security is to integrate machine learning approaches to meet various analytical issues in cloud security. Cloud security with ML has long-standing challenges that require methodological and theoretical handling. The conventional cryptography approach is less applied in resource-constrained devices. To solve these issues, the machine learning approach may be effectively used in providing security to the vast growing cloud environment. Machine learning algorithms can also be used to meet various cloud security issues, such as effective intrusion detection systems, zero-knowledge authentication systems, measures for passive attacks, protocols design, privacy system designs, applications,

and many more. The book also contains case studies/projects outlining how to implement various security features using machine learning algorithms and analytics on existing cloud-based products in public, private and hybrid cloud respectively. Audience Research scholars and industry engineers in computer sciences, electrical and electronics engineering, machine learning, computer security, information technology, and cryptography.

Cyber Security Innovation for the Digital Economy Springer Science & Business Media

This book is the culmination of literally more than thirty thousand hands on practical hours of log review, log assessment, enterprise-level packet capture forensics, live dynamic malware analysis, behavior malware root-cause triage analysis, use-case data analysis, and more, which have led to the remediation of nation state systemic malware infection droppers, command-and-control-compromised computers, exfiltration from targeted attackers and insider attacks, and more. This book will get you and your security operation center teams started in the correct direction instead of sitting around, pretending to do security, and not get fired by your bosses when they find out. This book will save your career and show you where your security manager or security peer lied to you about technology that they never understood. All this and more is at your fingertips. You can reinvigorate your career with security results that have been proven by my hands. Everyone in security operation center life is struggling to get into a role that is promising, and they are struggling to find a way up. Information Security is an expertise-driven field. This book and the others that will follow such as Consequence, Lies, Misconceptions, and Pains of Incompetent Security and Splunk Data Analysis Handbook and Cookbook for Everyone will invigorate your career and make you the envy of your peers. This may include your management, so be careful. Managers are scared of expertise. You will be in the driver's seat of data analysis, but first, you must walk through untying and unbinding all the broken premises and broken ideas that you have learned and relearned from year to year. You must unsubscribe to the bad notions that you take as commonplace watercooler talk. You need to do this now with this book. I will walk you through, step-by-step, to understand what is real security and what is fake security. This is where the rubber meets the road in breaking you free from the shackles of a silo-mentality or a silo-position. Too often crummy managers will leave you to rot in a security operations center with no growth and no hope to get out. This book is what you need to get your promotion somewhere else. Be the leader that you want to be. Be the discussion changer and not just the guy that nods and can never disagree or offer something fulfilling to a team. All the ideas contained in this book and the others come from results-proven security. This is not theory. This is technical, strategy guidance that is born from detecting the things that have put companies on the news, which have been hacked from exfiltration, insider attacks, nation-state botnet malware, ghost malware, network-level postcompromise, and so on. I have found them all using no alerts and no threat intelligence ever. This is the protection that you want.

Digital Economics John Wiley & Sons

Cybersecurity is vital for all businesses, regardless of sector. With constant threats and potential online dangers, businesses must remain aware of the current research and information available to them in order to protect themselves and their employees. Maintaining tight cybersecurity can be difficult for businesses as there are so many moving parts to contend with, but remaining vigilant and having protective measures and training in place is essential for a successful company. The Research Anthology on Business Aspects of Cybersecurity considers all emerging aspects of cybersecurity in the business sector including frameworks, models, best practices, and emerging areas of interest. This comprehensive reference source is split into three sections with the first discussing audits and risk assessments that businesses can conduct to ensure the security of their systems. The second section covers training and awareness initiatives for staff that promotes a security culture. The final section discusses software and systems that can be used to secure and manage cybersecurity threats. Covering topics such as audit models, security behavior, and insider threats, it is ideal for businesses, business professionals, managers, security analysts, IT specialists, executives, academicians, researchers, computer engineers, graduate students, and practitioners.

Building Secure Systems in Untrusted Networks Pearson Education

Recently, mobile security has garnered considerable interest in both the research community and industry due to the popularity of smartphones. The current smartphone platforms are open systems that allow application development, also for malicious parties. To protect the mobile device, its user, and other mobile ecosystem stakeholders such as network operators, application execution is controlled by a platform security architecture. This book explores how such mobile platform security architectures work. We present a generic model for mobile platform security architectures: the model illustrates commonly used security mechanisms and techniques in mobile devices and allows a systematic comparison of different platforms. We analyze several mobile platforms using the model. In addition, this book explains hardware-security mechanisms typically present in a mobile device. We also discuss enterprise security extensions for mobile platforms and survey recent research in the area of mobile platform security. The objective of this book is to provide a comprehensive overview of the current status of mobile platform security for students, researchers, and practitioners. Table of Contents: Preface / Introduction / Platform Security Model / Mobile Platforms / Platform Comparison / Mobile Hardware Security / Enterprise Security Extensions / Platform Security Research / Conclusions / Bibliography / Authors' Biographies

Network Security Addison-Wesley Professional

The best source for cutting-edge insights into AI in healthcare operations AI in Healthcare: How Artificial Intelligence Is Changing IT Operations and Infrastructure Services collects, organizes and provides the latest, most up-to-date research on the emerging technology of artificial intelligence as it is applied to healthcare operations. Written by a world-leading technology executive specializing in healthcare IT, this book provides concrete examples and practical advice on how to deploy artificial intelligence solutions in your healthcare environment. AI in Healthcare reveals to readers how they can take advantage of connecting real-time event correlation and response automation to minimize IT disruptions in critical healthcare IT functions. This book provides in-depth coverage of all the most important and central topics in the healthcare applications of artificial intelligence, including: Healthcare IT AI Clinical Operations AI Operational Infrastructure Project Planning Metrics, Reporting, and Service Performance AIOps in Automation AIOps Cloud Operations Future of AI Written in an accessible and straightforward style, this book will be invaluable to IT managers, administrators, and engineers in healthcare settings, as well as anyone with an interest or stake in healthcare technology.

Engineering and Management of Data Centers Springer

Across industries, firms vary broadly on how they operate with respect to their Research & Development (R&D) activities. This volume presents a holistic approach to evaluating the critical elements of R&D management, including planning, organization, portfolio management, project management, and knowledge transfer—by assessing R&D management from different sectors. Featuring empirical research and in-depth case studies from industries as diverse as medical imaging, electric vehicles, and cyber security, the authors identify common features of successful R&D management, despite fundamental differences, such as company size, number of employees, industry sector, and the R&D budget. In particular, they consider the implications for decision making with respect to resource allocation and investments, such as site selection, purchasing, and cross-departmental communication.

27th IFIP TC 11 Information Security and Privacy Conference, SEC 2012, Heraklion, Crete, Greece, June 4-6, 2012, Proceedings Newnes

This book constitutes the refereed proceedings of the International Conference on Applications and Techniques in Information Security, ATIS 2015, held in Beijing, China, in November 2015. The 25 revised full papers and 10 short papers presented were carefully reviewed and selected from 103 submissions. The papers are organized in topical sections on invited speeches; cryptograph; evaluation, standards and protocols; trust computing and privacy protection; cloud security and applications; tools and methodologies; system design and implementations.

Routledge

Melvin Greer and Kevin Jackson have assembled a comprehensive guide to industry-specific cybersecurity threats and provide a detailed risk management framework required to mitigate business risk associated with the adoption of cloud computing. This book can serve multiple purposes, not the least of which is documenting the breadth and severity of the challenges that today's enterprises face, and the breadth of programmatic elements required to address these challenges. This has become a boardroom issue: Executives must not only exploit the potential of information technologies, but manage their potential risks.

ECCWS2016-Proceedings fo the 15th European Conference on Cyber Warfare and Security " Morgan & Claypool Publishers

As industries are rapidly being digitalized and information is being more heavily stored and transmitted online, the security of information has become a top priority in securing the use of online networks as a safe and effective platform. With the vast and diverse potential of artificial intelligence (AI) applications, it has become easier than ever to identify cyber vulnerabilities, potential threats, and the identification of solutions to these unique problems. The latest tools and technologies for AI applications have untapped potential that conventional systems and human security systems cannot meet, leading AI to be a frontrunner in the fight against malware, cyber-attacks, and various security issues. However, even with the tremendous progress AI has made within the sphere of security, it's important to understand the impacts, implications, and critical issues and challenges of AI applications along with the many benefits and emerging trends in this essential field of security-based research. Research Anthology on Artificial Intelligence Applications in Security seeks to address the fundamental advancements and technologies being used in AI applications for the security of digital data and information. The included chapters cover a wide range of topics related to AI in security stemming from the development and design of these applications, the latest tools and technologies, as well as the utilization of AI and what challenges and impacts have been discovered along the way. This resource work is a critical exploration of the latest research on security and an overview of how AI has impacted the field and will continue to advance as an essential tool for security, safety, and privacy online. This book is ideally intended for cyber security analysts, computer engineers, IT specialists, practitioners, stakeholders, researchers, academicians, and students interested in AI applications in the realm of security research.

Infonomics Springer Science & Business Media

Computer security touches every part of our daily lives from our computers and connected devices to the wireless signals around us. Breaches have real and immediate financial, privacy, and safety consequences. This handbook has compiled advice from top professionals working in the real world about how to minimize the possibility of computer security breaches in your systems. Written for professionals and college students, it provides comprehensive best guidance about how to minimize hacking, fraud, human error, the effects of natural disasters, and more. This essential and highly-regarded reference maintains timeless lessons and is fully revised and updated with current information on security issues for social networks, cloud computing, virtualization, and more.

Security and Privacy in Communication Networks Larstan Publishing Inc.

This book constitutes the refereed proceedings of the 27th IFIP TC 11 International Information Security Conference, SEC 2012, held in Heraklion, Crete, Greece, in June 2012. The 42 revised full papers presented together with 11 short papers were carefully reviewed and selected from 167 submissions. The papers are organized in topical sections on attacks and malicious code, security architectures, system security, access control, database security, privacy attitudes and properties, social networks and social engineering, applied cryptography, anonymity and trust, usable security, security and trust models, security economics, and authentication and delegation.

First International Conference, TrustBus 2004, Zaragoza, Spain, August 30-September 1, 2004, Proceedings IGI Global

The Practical, Comprehensive Guide to Applying Cybersecurity Best Practices and Standards in Real Environments In Effective Cybersecurity, William Stallings introduces the technology, operational procedures, and management practices needed for successful cybersecurity. Stallings makes extensive use of standards and best practices documents that are often used to guide or mandate cybersecurity implementation. Going beyond these, he offers in-depth tutorials on the “how” of implementation, integrated into a unified framework and realistic plan of action. Each chapter contains a clear technical overview, as well as a detailed discussion of action items and appropriate policies. Stallings offers many pedagogical features designed to help readers master the material: clear learning objectives, keyword lists, review questions, and QR codes linking to relevant standards documents and web resources. Effective Cybersecurity aligns with the comprehensive Information Security Forum document “The Standard of Good Practice for Information Security,” extending ISF’s work with extensive insights from ISO, NIST, COBIT, other official standards and guidelines, and modern professional, academic, and industry literature. • Understand the cybersecurity discipline and the role of standards and best practices • Define security governance, assess risks, and manage strategy and tactics • Safeguard information and privacy, and ensure GDPR compliance • Harden systems across the system development life cycle (SDLC) • Protect servers, virtualized systems, and storage • Secure networks and electronic communications, from email to VoIP • Apply the most appropriate methods for user authentication • Mitigate security risks in supply chains and cloud environments This knowledge is indispensable to every cybersecurity professional. Stallings presents it systematically and coherently, making it practical and actionable.

Intelligent Security Systems IGI Global

Inhaltsangabe:Abstract: Today, more and more enterprises are developing business applications for Internet usage, which results in the exposure of their sensitive data not only to customers, and business partners but also to hackers. Because web applications provide the interface between users sitting somewhere within the World Wide Web and enterprises backend-resources, hackers can execute sophisticated attacks that are almost untraceable, aiming to steal, modify or delete enterprises vital data, even when it is protected by passwords or encryption. As recent viruses and worms such as Nimda, CodeRed or MSBlast have shown, modern attacks are occurring at the application itself, since this is where high-value information is most vulnerable. Such attack scenarios a becoming very problematic nowadays, since traditional network security products such as firewalls or network intrusion detection systems are completely blind to those malicious activities and therefore can not offer any protection at all. Modern protection mechanisms require more sophisticated detection capabilities in order to protect enterprises assets from such attacks now and in the future. Additionally web application security currently is a highly dynamic and also very emerging field within enterprises IT security activities. Therefore this diploma thesis aims to provide a strong focussed picture on the current state of web application security and its different possibilities to raise the overall security level of already implemented web applications and also of future web applications. Acting as a basis for further analysis, the currently most common web application vulnerabilities are described to get an overview of what a web application has to be protected of and where the root problems of these weaknesses are lying. Although these generic categories may not be applicable to every actually implemented web application, they may be used as baseline for future web applications. Armed with the background of the current vulnerabilities and their related root causes, a detailed analysis of currently available countermeasures will provide recommendations that may be taken at each of the certain stages of a web application s lifecycle. Since all further decisions generally should be based upon risk evaluations of specifically considered systems, a possible risk management assessment methodology is provided within the thesis. Controls and countermeasures are provided from an [...]

in The Digital Age Springer

With the continued progression of technologies such as mobile computing and the internet of things (IoT), cybersecurity has swiftly risen to a prominent field of global interest. This has led to cyberattacks and cybercrime becoming much more sophisticated to a point where cybersecurity can no longer be the exclusive responsibility of an organization’s information technology (IT) unit. Cyber warfare is becoming a national issue and causing various governments to reevaluate the current defense strategies they have in place. Cyber Security Auditing, Assurance, and Awareness Through CSAM and CATRAM provides emerging research exploring the practical aspects of reassessing current cybersecurity measures within organizations and international governments and improving upon them using audit and awareness training models, specifically the Cybersecurity Audit Model (CSAM) and the Cybersecurity Awareness Training Model (CATRAM). The book presents multi-case studies on the development and validation of these models and frameworks and analyzes their implementation and ability to sustain and audit national cybersecurity strategies. Featuring coverage on a broad range of topics such as forensic analysis, digital evidence, and incident management, this book is ideally designed for researchers, developers, policymakers, government officials, strategists, security professionals, educators, security analysts, auditors, and students seeking current research on developing training models within cybersecurity management and awareness.

Practical Cloud Security EGBG Services LLC

This book constitutes the refereed proceedings of the 13th International Joint Conference on E-Business and Telecommunications, ICETE 2016, held in Lisbon, Portugal, in July 2016. ICETE is a joint international conference integrating four major areas of knowledge that are divided into six corresponding conferences: International Conference on Data Communication Networking, DCNET; International Conference on E-Business, ICE-B; International Conference on Optical Communication Systems, OPTICS; International

Conference on Security and Cryptography, SECRYPT; International Conference on Signal Processing and Multimedia, SIGMAP; International Conference on Wireless Information Systems, WINSYS. The 20 full papers presented together with an invited paper in this volume were carefully reviewed and selected from 241 submissions. The papers cover the following key areas of e-business and telecommunications: data communication networking; e-business; optical communication systems; security and cryptography; signal processing and multimedia applications; wireless networks and mobile systems.