Core Security Patterns Best Practices And Strategies For J2ee Web Services And Identity Management Sun Core Series

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JOVANI PALOMA

Advances in Systems Science Addison-Wesley Professional
For quite some time, in systems and software design, security only came as a second thought or even as a nice-to-have add-on. However, since the breakthrough of the Internet as a virtual backbone for electronic commerce and similar applications, security is now recognized as a fundamental requirement. This book presents a systematic security improvement approach based on the pattern paradigm. The author first clarifies the key concepts of security patterns, defines their semantics and syntax, demonstrates how they can be used, and then compares his model with other security approaches. Based on the author's model and best practice in security patterns, security novices are now in a position to understand how security experts solve problems and can basically act like them by using the patterns available as building blocks for their designs.
Effective Java Springer Science & Business Media
This is the completely updated and revised edition to the bestselling tutorial and reference to J2EE Patterns. The book introduces new patterns, new refactorings, and new ways of using XML and J2EE Web services.
Information Security IGI Global
What every software professional should know about security. Designing Secure Software consolidates Loren Kohnfelder’s more than twenty years of experience into a concise, elegant guide to improving the security of technology products. Written for a wide range of software professionals, it emphasizes building security into software design early and involving the entire team in the process. The book begins with a discussion of core concepts like trust, threats, mitigation, secure design patterns, and cryptography. The second part, perhaps this book’s most unique and important contribution to the field, covers the process of designing and reviewing a software design with security considerations in mind. The final section details the most common coding flaws that create vulnerabilities, making copious use of code snippets written in C and Python to illustrate implementation vulnerabilities. You’ll learn how to: • Identify important assets, the attack surface, and the trust boundaries in a system • Evaluate the effectiveness of various threat mitigation candidates • Work with well-known secure coding patterns and libraries • Understand and prevent vulnerabilities like XSS and CSRF, memory flaws, and more • Use security testing to proactively

identify vulnerabilities introduced into code • Review a software design for security flaws effectively and without judgment Kohnfelder's career, spanning decades at Microsoft and Google, introduced numerous software security initiatives, including the co-creation of the STRIDE threat modeling framework used widely today. This book is a modern, pragmatic consolidation of his best practices, insights, and ideas about the future of software.

Security and Dependability for Ambient Intelligence BoD – Books on Demand

The ever growing number of application scenarios for IT systems leads to a significant increase in their number and hence to a level of complexity that has grown tremendously in comparison with early IT installations by the mid of the past decade. In numerous attempts to integrate these diverging application stacks, various prominent methods have emerged in the past, most recently the topic of EAI which strives to achieve a consolidated view at diverse application systems. However, the emergence and rise of cloud-based services leads to new challenges to deal with. Usage of offerings from a no further specified cloud appears appealing for IT decision makers since it promises cost savings while even enhancing flexibility to quickly respond to changing market needs. To further support this idea, this work focuses on the aspect of inter-organisational networks that are characterised by short setup times and short time to market in order to achieve innovative products emerging from the cooperation between different actors. In this context, proper backing by dedicated ICT components is one of the key challenges. This book therefore demonstrates how portal systems, acting as intermediary between providers and consumers, can be embedded into networked enterprises by providing seamless access to all relevant information. To achieve this, this book presents a generic architecture that can serve as a blueprint for future implementations for the type of enterprise portals introduced previously and focuses on integration of external services in a user-centric manner, concentrating on the user and his specific needs to achieve productivity and user satisfaction gains. Moreover, secure communication facilities allow to consider the current application and/or user context to control exchange of information between different applications integrated on the portal platform.

Standards and Standardization: Concepts, Methodologies, Tools, and Applications Springer Science & Business Media

Effective communication requires a common language, a truth that applies to science and mathematics as much as it does to culture and conversation. Standards and Standardization: Concepts, Methodologies, Tools, and Applications addresses the necessity of a common system of measurement in all technical communications and endeavors, in addition to the need for common rules and guidelines for regulating such enterprises. This multivolume reference will be of practical and theoretical significance to researchers, scientists, engineers, teachers, and students in a wide array of disciplines.

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Software -- Software Engineering.

Engineering Secure Software and Systems
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The OpenShift Security Guide was created to help those in cloud infrastructure and security engineering roles address the many security challenges facing them. Cloud security is complex, and Red Hat understands that users need more than just guidance in technical system configurations. The authors have identified approaches that aid in the triaging of security trade-offs and risk, policy enforcement, reporting, and the validation of system configuration. Cloud infrastructure and security engineering roles are central to establishing and preserving security postures. It is the book's intent to support these roles by providing the proper mixture of conceptual, organizational, and technical guidance, thereby increasing the security vigilance and effectiveness of those with such responsibilities. For the cloud security auditor, whether in an internal role or as a third-party assessment organization, this book intends to provide the technical guidance needed to verify, validate, and enforce security controls. For technology professionals charged with security policy management, this book should offer insight into related organizational policy, functional testing, and data stewardship tasks while augmenting knowledge in these areas. While the book speaks to OpenShift from a holistic infrastructure perspective, it does cover areas that application developers and reliability engineers may find valuable. With the ever evolving trends in container-based microservices, baking security into the continuous integration and delivery pipelines is a fundamental requirement. Build and runtime security features are discussed, and advantages of a secure container baseline image are covered as well. Readers are not expected to have expert-level knowledge of core OpenShift concepts. However, basic knowledge of Linux, Containers, and Kubernetes from a user or administrative perspective will certainly be useful, especially when reading through some of the technical implementation described in the chapters.

Advances in Grid Computing John Wiley & Sons
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.

Security Engineering with Patterns Springer

This book approaches the grid computing with a perspective on the latest achievements in the field, providing an insight into the current research trends and advances, and presenting a large range of innovative research papers. The topics covered in this book include resource and data management, grid architectures and development, and grid-enabled applications. New ideas employing heuristic methods from swarm intelligence or genetic algorithm and quantum encryption are considered in order to explain two main aspects of grid computing: resource management and data management. The book addresses also some aspects of grid computing that regard architecture and development, and includes a diverse range of applications for grid computing, including possible human grid computing system, simulation of the fusion reaction, ubiquitous healthcare service provisioning and complex water systems.

Cloud, Grid and High Performance Computing: Emerging Applications Packt Publishing Ltd

Learn to combine security theory and code to produce secure systems Security is clearly a crucial issue to consider during the design and implementation of any distributed software architecture. Security patterns are increasingly being used by developers who take security into serious consideration from the creation of their work. Written by the authority on security patterns, this unique book examines the structure and purpose of security patterns, illustrating their use with the help of detailed implementation advice, numerous code samples, and descriptions in UML. Provides an extensive, up-to-date catalog of security patterns Shares real-world case studies so you can see when and how to use security patterns in practice Details how to incorporate security from the conceptual stage Highlights tips on authentication, authorization, role-based access control, firewalls, wireless networks, middleware, VoIP, web services security, and more Author is well known and highly respected in the field of security and an expert on security patterns Security Patterns in Practice shows you how to confidently develop a

secure system step by step.
Digital Identity and Access Management: Technologies and Frameworks John Wiley & Sons
"This book explores important and emerging advancements in digital identity and access management systems, providing innovative answers to an assortment of problems as system managers are faced with major organizational, economic and market changes"--Provided by publisher.
Hands-On RESTful API Design Patterns and Best Practices Springer Science & Business Media
Advanced API Security is a complete reference to the next wave of challenges in enterprise security--securing public and private APIs. API adoption in both consumer and enterprises has gone beyond predictions. It has become the ‘coolest’ way of exposing business functionalities to the outside world. Both your public and private APIs, need to be protected, monitored and managed. Security is not an afterthought, but API security has evolved a lot in last five years. The growth of standards, out there, has been exponential. That's where AdvancedAPI Security comes in--to wade through the weeds and help you keep the bad guys away while realizing the internal and external benefits of developing APIs for your services. Our expert author guides you through the maze of options and shares industry leading best practices in designing APIs for rock-solid security. The book will explain, in depth, securing APIs from quite traditional HTTP Basic Authentication to OAuth 2.0 and the standards built around it. Build APIs with rock-solid security today with Advanced API Security. Takes you through the best practices in designing APIs for rock-solid security. Provides an in depth tutorial of most widely adopted security standards for API security. Teaches you how to compare and contrast different security standards/protocols to find out what suits your business needs the best.
Designing Secure Software Packt Publishing Ltd
Internet-based information systems, the second covering the large-scale in- gration of heterogeneous computing systems and data resources with the aim of providing a global computing space. Eachofthesefourconferencesencouragesresearcherstotreattheirrespective topics within a framework that incorporates jointly (a) theory, (b) conceptual design and development, and (c) applications, in particular case studies and industrial solutions. Following and expanding the model created in 2003, we again solicited and selected quality workshop proposals to complement the more "archival" nature of the main conferences with research results in a number of selected and more "avant-garde" areas related to the general topic of Web-based distributed c- puting. For instance, the so-called Semantic Web has given rise to several novel research areas combining linguistics, information systems technology, and ar- ?cial intelligence, such as the modeling of (legal) regulatory systems and the ubiquitous nature of their usage. We were glad to see that ten of our earlier s- cessful workshops (ADI, CAMS, EI2N, SWWS, ORM, OnToContent, MONET, SEMELS, COMBEK, IWSSA) re-appeared in 2008 with a second, third or even

?fth edition, sometimes by alliance with other newly emerging workshops, and that no fewer than three brand-new independent workshops could be selected from proposals and hosted: ISDE, ODIS and Beyond SAWSDL. Workshop - diences productively mingled with each other and with those of the main c- ferences, and there was considerable overlap in authors.

Hands-On Design Patterns with C# and .NET Core Anchor Academic Publishing (aap_verlag) Build effective RESTful APIs for enterprise with design patterns and REST framework's out-of-the-box capabilities Key FeaturesUnderstand advanced topics such as API gateways, API securities, and cloudImplement patterns programmatically with easy-to-follow examplesModernize legacy codebase using API connectors, layers, and microservicesBook Description This book deals with the Representational State Transfer (REST) paradigm, which is an architectural style that allows networked devices to communicate with each other over the internet. With the help of this book, you'll explore the concepts of service-oriented architecture (SOA), event-driven architecture (EDA), and resource-oriented architecture (ROA). This book covers why there is an insistence for high-quality APIs toward enterprise integration. It also covers how to optimize and explore endpoints for microservices with API gateways and touches upon integrated platforms and Hubs for RESTful APIs. You'll also understand how application delivery and deployments can be simplified and streamlined in the REST world. The book will help you dig deeper into the distinct contributions of RESTful services for IoT analytics and applications. Besides detailing the API design and development aspects, this book will assist you in designing and developing production-ready, testable, sustainable, and enterprise-grade APIs. By the end of the book, you'll be empowered with all that you need to create highly flexible APIs for next-generation RESTful services and applications. What you will learnExplore RESTful concepts, including URI, HATEOAS, and Code on DemandStudy core patterns like Statelessness, Pagination, and DiscoverabilityOptimize endpoints for linked microservices with API gatewaysDelve into API authentication, authorization, and API security implementationsWork with Service Orchestration to craft composite and process-aware servicesExpose RESTful protocol-based APIs for cloud computingWho this book is for This book is primarily for web, mobile, and cloud services developers, architects, and consultants who want to build well-designed APIs for creating and sustaining enterprise-class applications. You'll also benefit from this book if you want to understand the finer details of RESTful APIs and their design techniques along with some tricks and tips.

ASP.NET Core Security Prentice Hall Professional Secure your ASP.NET applications before you get hacked! This practical guide includes secure coding techniques with annotated examples and full coverage of built-in ASP.NET Core security tools. In ASP.NET Core Security, you will learn how to: Understand and

recognize common web app attacks Implement attack countermeasures Use testing and scanning tools and libraries Activate built-in browser security features from ASP.NET Take advantage of .NET and ASP.NET Core security APIs Manage passwords to minimize damage from a data leak Securely store application secrets ASP.NET Core Security teaches you the skills and countermeasures you need to keep your ASP.NET Core apps secure from the most common web application attacks. With this collection of practical techniques, you will be able to anticipate risks and introduce practices like testing as regular security checkups. You'll be fascinated as the author explores real-world security breaches, including rogue Firefox extensions and Adobe password thefts. The examples present universal security best practices with a sharp focus on the unique needs of ASP.NET Core applications. Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications. About the technology Your ASP.NET Core applications are under attack now. Are you ready? Th ere are specific countermeasures you can apply to keep your company out of the headlines. This book demonstrates exactly how to secure ASP.NET Core web applications, including safe browser interactions, recognizing common threats, and deploying the framework's unique security APIs. About the book ASP.NET Core Security is a realistic guide to securing your web applications. It starts on the dark side, exploring case studies of cross-site scripting, SQL injection, and other weapons used by hackers. As you go, you'll learn how to implement countermeasures, activate browser security features, minimize attack damage, and securely store application secrets. Detailed ASP.NET Core code samples in C# show you how each technique looks in practice. What's inside Understand and recognize common web app attacks Testing tools, helper libraries, and scanning tools Activate built-in browser security features Take advantage of .NET and ASP.NET Core security APIs Manage passwords to minimize damage from a data leak About the reader For experienced ASP.NET Core web developers. About the author Christian Wenz is a web pioneer, consultant, and entrepreneur. Table of Contents PART 1 FIRST STEPS 1 On web application security PART 2 MITIGATING COMMON ATTACKS 2 Cross-site scripting (XSS) 3 Attacking session management 4 Cross-site request forgery 5 Unvalidated data 6 SQL injection (and other injections) PART 3 SECURE DATA STORAGE 7 Storing secrets 8 Handling passwords PART 4 CONFIGURATION 9 HTTP headers 10 Error handling 11 Logging and health checks PART 5 AUTHENTICATION AND AUTHORIZATION 12 Securing web applications with ASP.NET Core Identity 13 Securing APIs and single page applications PART 6 SECURITY AS A PROCESS 14 Secure dependencies 15 Audit tools 16 OWASP Top 10

Design Patterns Pearson Deutschland GmbH

Most security books are targeted at security engineers and specialists. Few show how build security into software. None breakdown the different concerns facing

security at different levels of the system: the enterprise, architectural and operational layers. Security Patterns addresses the full spectrum of security in systems design, using best practice solutions to show how to integrate security in the broader engineering process. Essential for designers building large-scale systems who want best practice solutions to typical security problems Real world case studies illustrate how to use the patterns in specific domains For more information visit www.securitypatterns.org

Game Development Patterns and Best Practices BoD – Books on Demand

The two-volume set LNAI 5711 and LNAI 5712 constitutes the refereed proceedings of the 13th International Conference on Knowledge-Based Intelligent Information and Engineering Sysetms, KES 2009, held in Santiago de Chile in September 2009. The 153 revised papers presented were carefully reviewed and selected from numerous submissions. The topics covered are: fuzzy and neuro-fuzzy systems, agent systems, knowledge based and expert systems, miscelleanous generic intelligent systems topics, intelligent vision and image processing, knowledge management, ontologies and data mining, web intelligence, text and multimedia mining and retrieval, other advanced knowledge-based systems, innovations in chance discovery, advanced knowledge-based systems, multi-agent negotiation and coordination, innovations in intelligent systems, intelligent technology approach to management engineering, data mining and service science for innovation, knowledge-based systems for e-business, video surveillance, social networks, advanced engineering design techniques for adaptive systems, knowledge technology in learning support, advanced information system for supporting personal activity, design of intelligent society, knowledge-based interface systems, knowledge-based multi-criteria decision support, soft computing techniques and their applications, immunity-based systems. The book also includes three keynote speaker plenary presentations.

Security for Web Services and Service-Oriented Architectures John Wiley & Sons

This book constitutes the refereed proceedings of the First International Symposium on Engineering Secure Software and Systems, ESSoS 2009, held in Leuven, Belgium, in February 2009. The 10 revised full papers presented together with 7 industry reports and ideas papers were carefully reviewed and selected from 57 submissions. The papers are organized in topical sections on policy verification and enforcement, model refinement and program transformation, secure system development, attack analysis and prevention, as well as testing and assurance.

Information Science and Applications Addison-Wesley Professional

"This 10-volume compilation of authoritative, research-based articles contributed by thousands of researchers and experts from all over the world emphasized modern issues and the presentation of potential opportunities, prospective solutions, and future

directions in the field of information science and technology"--Provided by publisher.

Software Engineering for Secure Systems: Industrial and Research Perspectives

Packt Publishing Ltd

This proceedings volume provides a snapshot of the latest issues encountered in technical convergence and convergences of security technology. It explores how information science is core to most current research, industrial and commercial activities and consists of contributions covering topics including Ubiquitous Computing, Networks and Information Systems, Multimedia and Visualization, Middleware and Operating Systems, Security and Privacy, Data Mining and Artificial Intelligence, Software Engineering, and Web Technology. The proceedings introduce the most recent information technology and ideas, applications and problems related to technology convergence, illustrated through case studies, and reviews converging existing security techniques. Through this volume, readers will gain an understanding of the current state-of-the-art in information strategies and technologies of convergence security. The intended readership are researchers in academia, industry, and other research institutes focusing on information science and technology.

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