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CHRISTOPHER STEEL · RAMESH NAGAPPAN · RAY LAI

Forewords by Jody Lin, Executive Vice President, VeriSign,
and Joseph Dmijewski, Chief Technology Officer, RSA Security

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

Waylon Kenning



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

Core Security Patterns Christopher Steel, Ramesh Nagappan, Ray Lai, 2005 Praise for Core Security Patterns Java provides the application developer with essential security mechanisms and support in avoiding critical security bugs common in other languages A language however can only go so far The developer must understand the security requirements of the application and how to use the features Java provides in order to meet those requirements Core Security Patterns addresses both aspects of security and will be a guide to developers everywhere in creating more secure applications Whitfield Diffie inventor of Public Key Cryptography A comprehensive book on Security Patterns which are critical for secure programming Li Gong former Chief Java Security Architect Sun Microsystems and coauthor of Inside Java 2 Platform Security As developers of existing applications or future innovators that will drive the next generation of highly distributed applications the patterns and best practices outlined in this book will be an important asset to your development efforts Joe Uniejewski Chief Technology Officer and Senior Vice President RSA Security Inc This book makes an important case for taking a proactive approach to security rather than relying on the reactive security approach common in the software industry Judy Lin Executive Vice President VeriSign Inc Core Security Patterns provides a comprehensive patterns driven approach and methodology for effectively incorporating security into your applications I recommend that every application developer keep a copy of this indispensable security reference by their side Bill Hamilton author of ADO NET Cookbook ADO NET in a Nutshell and NUnit Pocket Reference As a trusted advisor this book will serve as a Java developers security handbook providing applied patterns and design strategies for securing Java applications Shaheen Nasirudheen CISSP Senior Technology Officer JPMorgan Chase Like Core J2EE Patterns this book delivers a proactive and patterns driven approach for designing end to end security in your applications Leveraging the authors strong security experience they created a must have book for any designer developer looking to create secure applications John Crupi Distinguished Engineer Sun Microsystems coauthor of Core J2EE Patterns Core Security Patterns is the hands on practitioners guide to building robust end to end security into J2EE tm enterprise applications Web services identity management service provisioning and personal identification solutions Written by three leading Java security architects the patterns driven approach fully reflects todays best practices for security in large scale industrial strength applications The authors explain the fundamentals of Java application security from the ground up then introduce a powerful structured security methodology a vendor independent security framework a detailed assessment checklist and twenty three proven security architectural patterns They walk through several realistic scenarios covering architecture and implementation and presenting detailed sample code They demonstrate how to apply cryptographic techniques obfuscate code establish secure communication secure J2ME tm applications authenticate and authorize users and fortify Web services enabling single sign on effective identity management

and personal identification using Smart Cards and Biometrics Core Security Patterns covers all of the following and more
What works and what doesn't J2EE application security best practices and common pitfalls to avoid Implementing key Java platform security features in real world applications Establishing Web Services security using XML Signature XML Encryption WS Security XKMS and WS-I Basic security profile Designing identity management and service provisioning systems using SAML Liberty XACML and SPML Designing secure personal identification solutions using Smart Cards and Biometrics Security design methodology patterns best practices reality checks defensive strategies and evaluation checklists End to end security architecture case study architecting designing and implementing an end to end security solution for large scale applications *Using Security Patterns in Web -Application* Shahnawaz Alam, 2014-04-24 Web Applications have been widely accepted by the organization be it in private public or government sector and form the main part of any e-commerce business on the internet However with the widespread of web application the threats related to the web application have also emerged Web application transmit substantial amount of critical data such as password or credit card information etc and this data should be protected from an attacker There has been huge number of attacks on the web application such as SQL Injection Cross Site Scripting Http Response Splitting in recent years and it is one of the main concerns in both the software developer and security professional community This project aims to explore how security can be incorporated by using security pattern in web application and how effective it is in addressing the security problems of web application

Software Engineering for Secure Systems: Industrial and Research Perspectives Mouratidis, H., 2010-10-31 This book provides coverage of recent advances in the area of secure software engineering that address the various stages of the development process from requirements to design to testing to implementation Provided by publisher

Handbook of Research on Innovations in Systems and Software Engineering Díaz, Vicente García, Lovelle, Juan Manuel Cueva, García-Bustelo, B. Cristina Pelayo, 2014-08-31 Professionals in the interdisciplinary field of computer science focus on the design operation and maintenance of computational systems and software Methodologies and tools of engineering are utilized alongside the technological advancements of computer applications to develop efficient and precise databases of information The Handbook of Research on Innovations in Systems and Software Engineering combines relevant research from all facets of computer programming to provide a comprehensive look at the challenges and changes in the field With information spanning topics such as design models cloud computing and security this handbook is an essential reference source for academicians researchers practitioners and students interested in the development and design of improved and effective technologies **The CERT Oracle Secure Coding Standard for Java** Fred Long, 2012 In the Java world security is not viewed as an add on a feature It is a pervasive way of thinking Those who forget to think in a secure mindset end up in trouble But just because the facilities are there doesn't mean that security is assured automatically A set of standard practices has evolved over the years The Secure Coding Standard for Java TM is a compendium of these

practices These are not theoretical research papers or product marketing blurbs This is all serious mission critical battle tested enterprise scale stuff James A Gosling Father of the Java Programming Language An essential element of secure coding in the Java programming language is a well documented and enforceable coding standard Coding standards encourage programmers to follow a uniform set of rules determined by the requirements of the project and organization rather than by the programmer s familiarity or preference Once established these standards can be used as a metric to evaluate source code using manual or automated processes The CERT R Oracle R Secure Coding Standard for Java TM provides rules designed to eliminate insecure coding practices that can lead to exploitable vulnerabilities Application of the standard s guidelines will lead to higher quality systems robust systems that are more resistant to attack Such guidelines are required for the wide range of products coded in Java for devices such as PCs game players mobile phones home appliances and automotive electronics After a high level introduction to Java application security seventeen consistently organized chapters detail specific rules for key areas of Java development For each area the authors present noncompliant examples and corresponding compliant solutions show how to assess risk and offer references for further information Each rule is prioritized based on the severity of consequences likelihood of introducing exploitable vulnerabilities and cost of remediation The standard provides secure coding rules for the Java SE 6 Platform including the Java programming language and libraries and also addresses new features of the Java SE 7 Platform It describes language behaviors left to the discretion of JVM and compiler implementers guides developers in the proper use of Java s APIs and security architecture and considers security concerns pertaining to standard extension APIs from the javax package hierarchy The standard covers security issues applicable to these libraries lang util Collections Concurrency Utilities Logging Management Reflection Regular Expressions Zip I O JMX JNI Math Serialization and JAXP

Pattern-Oriented Software Architecture, On Patterns and Pattern Languages Frank Buschmann, Kevin Henney, Douglas C. Schmidt, 2007-04-30 Software patterns have revolutionized the way developers think about how software is designed built and documented and this unique book offers an in depth look of what patterns are what they are not and how to use them successfully The only book to attempt to develop a comprehensive language that integrates patterns from key literature it also serves as a reference manual for all pattern oriented software architecture POSA patterns Addresses the question of what a pattern language is and compares various pattern paradigms Developers and programmers operating in an object oriented environment will find this book to be an invaluable resource

User-Centric Application Integration in Enterprise Portal Systems Oliver Gmelch, 2012 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

Java EE and .NET Interoperability Marina Fisher, 2006 It s a fact the NET and Java platforms exist in the enterprise with many touch points Developers are very eager for information and examples on how the two environments can coexist This book reflects our interoperability collaboration with Sun and provides best practices for using Web services to bridge NET and Java applications DAN L LEWIN corporate vice president Developer Platform Evangelism Microsoft Corp This book is a developer handbook for implementing interoperable applications and services It includes actionable strategies for developers and best practices from the field experience GREG PAPADOPOULOS chief technology officer Sun Microsystems A comprehensive practical guide to developing applications that cross the Java EE NET boundary BILL SMITH director business alliances Sun Microsystems Efficient effective interoperability between Java EE and NET is a crucial element in the IT architecture of large enterprises and is vital to running a successful business This book takes interoperability to the next level far beyond the cold coexistence of systems by describing effective strategies that allow you to achieve true interoperability while reducing complexity in your applications and your data center Additionally it provides examples and practical advice on how to achieve this new level of interoperability and covers in depth all of the options available from bridging to porting to platform unification The costs that this can save you from management maintenance and server consolidation are very significant YAACOV COHEN chief executive officer Mainsoft A complete and up to date coverage of Java EE NET security interoperability standards and related specifications HUBERT A LE VAN GONG architect Sun Microsystems and the coauthor of Web SSO MEX Specification Evolving Web services standards and technologies offer limited interoperability when it comes to security management and other important application characteristics Successful interoperability solutions require comprehensive integration strategies that go beyond simple connections The capability to mitigate security and reliability risks and transactional support is critical to interoperability Java EE and NET Interoperability

addresses issues encountered during the integration process such as a diverse technology set incompatible APIs and disparate environment maintenance The experienced authors outline strategies approaches and best practices including messaging Web services and integration related frameworks and patterns The book also introduces readers to Service Oriented Architecture SOA the building block for scalable and reliable enterprise integration solutions This indispensable book provides the Java EE and NET developer community with multiple strategies to integrate between Java EE and NET platforms that save developers time and effort Applying proven interoperability solutions significantly reduces the application development cycle Coverage includes Effective Java EE NET integration strategies and best practices Detailed enterprise coverage as well as standalone Java EE component integration with NET SOA as a building block for Java EE NET interoperability Interoperability security issues and risk mitigation Managing reliability availability and scalability for Web services built on Java EE and NET The latest interoperability standards and specifications including Web SSO MEX and WS Management Current interoperability technologies such as Windows Communication Foundation WSE 3.0 JAX WS and Enterprise Service Bus

Biomedical Informatics Vadim Astakhov, 2009-07-25 In past decades the area of bioinformatics has proved to be both dynamic and vital producing a wide spectrum of novel approaches and assuming an increasingly important role in modern bio technological development In *Biomedical Informatics* expert researchers explore cutting edge new advances in the field providing an overview of novel cyberinfrastructures which are currently under development in various bio medical centers across the world Chapters demonstrate various architectures for large scale collaboration offer modern approaches currently used in various areas of bioinformatics and highlight the software challenges associated with large scale biomedical informatics Composed in the highly successful *Methods in Molecular Biology*™ series format chapters include a brief introduction detailed methods and a Notes section which shares tips on troubleshooting and avoiding known pitfalls Wide ranging and innovative *Biomedical Informatics* is an essential manual for newcomers to this area as well as an invaluable addition to the laboratories and offices of the most practiced researchers

Joyce in the Belly of the Big Truck; Workbook Joyce A. Cascio, 2005-05 [Mastering Web Services Security](#) Bret Hartman, Donald J. Flinn, Konstantin Beznosov, Shirley Kawamoto, 2003-02-17 Uncovers the steps software architects and developers will need to take in order to plan and build a real world secure Web services system Authors are leading security experts involved in developing the standards for XML and Web services security Focuses on XML based security and presents code examples based on popular EJB and NET application servers Explains how to handle difficult to solve problems such as passing user credentials and controlling delegation of those credentials across multiple applications Companion Web site includes the source code from the book as well as additional examples and product information

Open Source Identity Management Patterns and Practices Using OpenAM 10.x Waylon Kenning, 2013 Annotation OpenAM is a web based open source application that provides authentication authorization entitlement and federation services OpenAM provides core identity services to simplify

the implementation of transparent single sign on SSO as a security component in a network infrastructure It also provides the foundation for integrating diverse web applications that might typically operate against a disparate set of identity repositories and that are hosted on a variety of platforms such as web application servers Open Source Identity Management Patterns and Practices Using OpenAM 10 x is a condensed practical guide on installing OpenAM to protect your web applications This book will teach you how to integrate to different identity sources such as Active Directory or Facebook using two factor authentications Open Source Identity Management Patterns and Practices Using OpenAM 10 x looks at Identity Management and how to implement it using OpenAM 10 x It specifically focuses on providing authentication to your web application using either a local identity source or a cloud based identity source so you dont have to worry about authentication in your application You will learn how to install OpenAM and then how to install policy agents against your web and application servers to do authentication In addition well focus on integrating to applications directly using SAML either through the use of a small preconfigured application or through a third party SAML library Finally well focus on integrating to cloud identity providers using OAuth 2 0 and utilizing two factor authentication If you want a scalable robust identity management infrastructure Open Source Identity Management Principles and Patterns Using OpenAM 10 x will get you up and running in the least amount of time possible

Enterprise Java Security Marco Pistoia,2004 This is a practical guide to building a secure enterprise infrastructure with J2SE and J2EE technologies This text explains how J2SE and J2EE security architectures relate to each other and also covers the security aspects of servlets JSP and EJB

Security Patterns in Practice Eduardo Fernandez-Buglioni,2013-06-25 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

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Cyber Security identity and access management (IAM) Mark Hayward,2025-06-06 Cyber Security Identity and Access Management IAM centers on the accurate verification of user identities and the precise control of access rights within an organization s digital environment At its core IAM provides a structured approach to ensure that the right individuals can access the right resources at the right times for the right reasons This system helps prevent unauthorized access safeguarding sensitive data and critical systems from internal mistakes and external threats Effective IAM is grounded in establishing trusted identities establishing policies and implementing technologies that enforce these policies reliably When executed well IAM not only enhances security but also streamlines user experiences reduces administrative burdens and enables compliance with regulatory standards

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