

Iron-Clad **Java:** Building Secure Web Applications



Best Practices for Secure Java Web Application Development

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Ironclad Java Building Secure Web Applications

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Ironclad Java Building Secure Web Applications:

Iron-Clad Java Jim Manico, August Detlefsen, 2014-09-12 Proven Methods for Building Secure Java Based Web Applications Develop deploy and maintain secure Java applications using the expert techniques and open source libraries described in this Oracle Press guide Iron Clad Java presents the processes required to build robust and secure applications from the start and explains how to eliminate existing security bugs Best practices for authentication access control data protection attack prevention error handling and much more are included Using the practical advice and real world examples provided in this authoritative resource you ll gain valuable secure software engineering skills Establish secure authentication and session management processes Implement a robust access control design for multi tenant web applications Defend against cross site scripting cross site request forgery and clickjacking Protect sensitive data while it is stored or in transit Prevent SQL injection and other injection attacks Ensure safe file I O and upload Use effective logging error handling and intrusion detection methods Follow a comprehensive secure software development lifecycle In this book Jim Manico and August Detlefsen tackle security education from a technical perspective and bring their wealth of industry knowledge and experience to application designers A significant amount of thought was given to include the most useful and relevant security content for designers to defend their applications This is not a book about security theories it s the hard lessons learned from those who have been exploited turned into actionable items for application designers and condensed into print From the Foreword by Milton Smith Oracle Senior Principal Security Product Manager Java

Digital Java EE 7 Web Application Development Peter Pilgrim, 2015-09-30 Develop Java enterprise applications to meet the emerging digital standards using Java EE 7 About This Book Build modern Java EE web applications that insert update retrieve and delete customer data with up to date methodologies Delve into the essential JavaScript programming language and become proficient with front end technologies that integrate with the Java platform Learn about JavaServer Faces its lifecycle and custom tags and build exciting digital applications with the aid of handpicked real world examples Who This Book Is For If you are a professional Java engineer and want to develop well rounded and strong Java Web Development skills then this book is for you What You Will Learn Understand and apply updated JavaServer Faces key features including HTML5 support resource library constructs and pass through attributes Build web applications that conform to digital standards and governance and leverage the Java EE 7 web architecture Construct modern JSF Forms that apply validation add AJAX for immediate validation and write your own validators Augment a traditional web application with JSF 2 2 Flow Beans and Flow Scope Beans Program single page applications including AngularJS and design Java RESTful back end services for integration Utilize modern web frameworks such as Bootstrap and Foundation in your JSF applications Create your own JSF custom components that generate reusable content for your stakeholders and their businesses In Detail Digital Java EE 7 presents you with an opportunity to master writing great enterprise web software using the Java EE 7 platform with the

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Matt Bishop,2018-11-27 The Comprehensive Guide to Computer Security Extensively Revised with Newer Technologies Methods Ideas and Examples In this updated guide University of California at Davis Computer Security Laboratory co director Matt Bishop offers clear rigorous and thorough coverage of modern computer security Reflecting dramatic growth in the quantity complexity and consequences of security incidents Computer Security Second Edition links core principles with technologies methodologies and ideas that have emerged since the first edition s publication Writing for advanced undergraduates graduate students and IT professionals Bishop covers foundational issues policies cryptography systems design assurance and much more He thoroughly addresses malware vulnerability analysis auditing intrusion detection and best practice responses to attacks In addition to new examples throughout Bishop presents entirely new chapters on availability policy models and attack analysis Understand computer security goals problems and challenges and the deep links between theory and practice Learn how computer scientists seek to prove whether systems are secure Define security policies for confidentiality integrity availability and more Analyze policies to reflect core questions of trust and use them to constrain operations and change Implement cryptography as one component of a wider computer and network security strategy Use system oriented techniques to establish effective security mechanisms defining who can act and what they can do Set appropriate security goals for a system or product and ascertain how well it meets them Recognize program flaws and malicious logic and detect attackers seeking to exploit them This is both a comprehensive text explaining the most fundamental and pervasive aspects of the field and a detailed reference It will help you align security concepts with realistic policies successfully implement your policies and thoughtfully manage the trade offs that inevitably arise Register your book for convenient access to downloads updates and or corrections as they become available See inside book for details

Tribe of Hackers Marcus J. Carey,Jennifer Jin,2019-07-20 Tribe of Hackers Cybersecurity Advice from the Best Hackers in the World 9781119643371 was previously published as Tribe of Hackers Cybersecurity Advice from the Best Hackers in the World 9781793464187 While this version features a new cover design and introduction the remaining content is the same as the prior release and should not be considered a new or updated product Looking for real world advice from leading

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Seguridad en aplicaciones Web Java José Manuel Ortega Candell, 2018-03-20 Java es uno de los lenguajes de programación más utilizados a nivel empresarial a la hora de desarrollar aplicaciones de gestión con buenos niveles de escalabilidad y disponibilidad Además de tener sólidos conocimientos en programación orientada a objetos y arquitectura de software desde el punto de vista de la seguridad aquellos que buscan desarrollar una carrera profesional con tecnologías open source es necesario conocer un conjunto de buenas prácticas a la hora de crear aplicaciones web El objetivo de este libro es enseñar los principales criterios y buenas prácticas para crear aplicaciones web de forma segura en Java Además comentaremos los aspectos de seguridad en las diferentes etapas del desarrollo de aplicaciones web en Java alineadas a las buenas prácticas propuestas por OWASP Open Web Application Security Project y en particular el top ten de vulnerabilidades que podemos encontrar en aplicaciones web Veremos cómo configurar la seguridad de nuestras aplicaciones en los principales servidores de aplicaciones del mercado y detallaremos los pasos a seguir para implementar mecanismos de seguridad con el framework Spring Security Con el objetivo de desarrollar aplicaciones web seguras utilizando la especificación Java Enterprise Edition J2EE se estudiarán los mecanismos de clave pública privada y firma digital que proporcionen servicios de encriptación desencriptación autenticación y comunicación segura

InfoWorld, 1996-10-21 InfoWorld is targeted to Senior IT professionals Content is segmented into Channels and Topic Centers InfoWorld also celebrates people companies and projects

The Software Encyclopedia, 1986

Secure Java Abhay Bhargava, 2010-09-14 Most security books on Java focus on cryptography and access control but exclude key aspects such as coding practices logging and web application risk assessment Encapsulating security requirements for web development with the Java programming platform Secure Java For Web Application Development covers secure programming risk assessment and

PC World, 2002

A Guide to Building Secure Web Applications and Web Services OWASP.,

The Tangled Web Michal Zalewski, 2011-11-15

Modern web applications are built on a tangle of technologies that have been developed over time and then haphazardly pieced together. Every piece of the web application stack from HTTP requests to browser side scripts comes with important yet subtle security consequences. To keep users safe it is essential for developers to confidently navigate this landscape. In *The Tangled Web*, Michal Zalewski, one of the world's top browser security experts, offers a compelling narrative that explains exactly how browsers work and why they're fundamentally insecure. Rather than dispense simplistic advice on vulnerabilities, Zalewski examines the entire browser security model, revealing weak points and providing crucial information for shoring up web application security. You'll learn how to perform common but surprisingly complex tasks such as URL parsing and HTML sanitization. Use modern security features like Strict Transport Security, Content Security Policy, and Cross-Origin Resource Sharing. Leverage many variants of the same origin policy to safely compartmentalize complex web applications and protect user credentials in case of XSS bugs. Build mashups and embed gadgets without getting stung by the tricky frame navigation policy. Embed or host user-supplied content without running into the trap of content sniffing. For quick reference, Security Engineering Cheat Sheets at the end of each chapter offer ready solutions to problems you're most likely to encounter. With coverage extending as far as planned HTML5 features, *The Tangled Web* will help you create secure web applications that stand the test of time.

Web Application Security Andrew Hoffman, 2024-02-27 In the first edition of this critically acclaimed book, Andrew Hoffman defined the three pillars of application security: reconnaissance, offense, and defense. In this revised and updated second edition, he examines dozens of related topics from the latest types of attacks and mitigations to threat modeling the secure software development lifecycle (SSDL) SDLC and more. Hoffman, senior staff security engineer at Ripple, also provides information regarding exploits and mitigations for several additional web application technologies such as GraphQL, cloud-based deployments, content delivery networks (CDN), and server-side rendering (SSR). Following the curriculum from the first book, this second edition is split into three distinct pillars comprising three separate skill sets: Pillar 1: Recon. Learn techniques for mapping and documenting web applications remotely, including procedures for working with web applications. Pillar 2: Offense. Explore methods for attacking web applications using a number of highly effective exploits that have been proven by the best hackers in the world. These skills are valuable when used alongside the skills from Pillar 3. Pillar 3: Defense. Build on skills acquired in the first two parts to construct effective and long-lived mitigations for each of the attacks described in Pillar 2.

Web Application Security Andrew Hoffman, 2024-01-17 In the first edition of this critically acclaimed book, Andrew Hoffman defined the three pillars of application security: reconnaissance, offense, and defense. In this revised and updated second edition, he examines dozens of related topics from the latest types of attacks and mitigations to threat modeling the secure software development lifecycle (SSDL) SDLC and more. Hoffman, senior staff security engineer at Ripple, also provides information regarding exploits and mitigations for several additional web application technologies such as GraphQL, cloud-based deployments, content delivery networks (CDN), and server-side rendering (SSR). Following the

curriculum from the first book this second edition is split into three distinct pillars comprising three separate skill sets Pillar 1 Recon Learn techniques for mapping and documenting web applications remotely including procedures for working with web applications Pillar 2 Offense Explore methods for attacking web applications using a number of highly effective exploits that have been proven by the best hackers in the world These skills are valuable when used alongside the skills from Pillar 3 Pillar 3 Defense Build on skills acquired in the first two parts to construct effective and long lived mitigations for each of the attacks described in Pillar 2

Secure Web Apps Barrett Williams, ChatGPT, 2024-12-28 Unlock the fortress of web security with Secure Web Apps your essential guide to mastering the art of protecting modern digital landscapes Whether you're a seasoned developer a tech enthusiast or new to web development this comprehensive resource lays a solid foundation for building secure web applications Dive into the intricacies of web application vulnerabilities and understand why security is paramount in today's interconnected world Secure Web Apps walks you through the revered OWASP Top Ten unraveling common vulnerabilities and providing actionable strategies to mitigate them Empower yourself with knowledge about advanced authentication mechanisms including multi factor authentication and the nuances of OAuth and OpenID Connect Master the art of secure session management with techniques for implementing secure cookies and maintaining session ID security Protect your applications from sophisticated threats like Cross Site Scripting XSS and Cross Site Request Forgery CSRF through expert guidance on user input sanitization and the use of anti CSRF tokens Learn to shield your data with robust SQL injection defenses using parameterized queries prepared statements and ORM principles Enhance data transmission security through effective use of TLS SSL HSTS and certificate pinning ensuring your users sensitive information remains confidential Delve into Content Security Policy CSP configurations secure your APIs and fortify your server side security practices to create an impenetrable environment Discover powerful defenses against Denial of Service DoS attacks and gain insights into configuring Web Application Firewalls WAF for optimal protection Navigate the complexities of security testing automate your scanning processes and embrace the critical human element in web security by fostering a culture of awareness and continuous learning Stay ahead of emerging threats with adaptive security strategies and learn from real world case studies of both failures and success stories With Secure Web Apps you receive not just knowledge but a toolkit for the future Embrace the rise of AI and emerging standards to keep your applications secure today and tomorrow As you turn the last page you'll be equipped with best practices a cheat sheet of key takeaways and recommended resources ready to tackle any security challenge that comes your way

Spring Security Mick Knutson, Robert Winch, Peter Mularien, 2017-11-28 Learn how to secure your Java applications from hackers using Spring Security 4.2 Key Features Architect solutions that leverage the power of Spring Security while being loosely coupled Implement existing user stores user sign up authentication and supporting AJAX requests Integrate with popular Cloud services such as Zookeeper Eureka and Consul along with advanced techniques including OAuth JSON Web Tokens JWS

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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

Hack Proofing Your Web Applications Syngress, 2001-06-18 From the authors of the bestselling Hack Proofing Your Network OPEC Amazon Yahoo and E bay If these large well established and security conscious web sites have problems how can anyone be safe How can any programmer expect to develop web applications that are secure Hack Proofing Your Web Applications is the only book specifically written for application developers and webmasters who write programs that are used on web sites It covers Java applications XML ColdFusion and other database applications Most hacking books focus on catching the hackers once they

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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 **Securing Java Web Applications with Spring Security** Kevin Bowersox,2015 In this Securing Java Web Applications with Spring Security training course expert author Kevin Bowersox will teach you everything you need to know to secure Java web applications with Spring Security This course is designed for users that already have a working knowledge of Java XML HTML and JavaScript You will start with an introduction to Spring Security then jump into learning the basics of Spring Security From there Kevin will teach you about authentication including custom authentication creating new user accounts and user details This video tutorial also covers JDBC authentication LDAP authentication authorization and access control Finally you will learn advanced features including HTTPS channel security and Java configuration Once you have completed this computer based training course you will have learned how to provide authentication and authorization to Java web applications using Spring Security Resource description page

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