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Iron-Clad Java: Building Secure Web Applications

Best Practices for Secure Java Web Application
Development



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AN Whitehead



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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

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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, 1988 *Secure Java* Abhay Bhargav, 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
Armed Forces Journal International, 1864 *Industries*, 1887 *Army, Navy, Air Force Journal & Register*, 1864

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 *A Guide to Building Secure Web Applications and Web Services* OWASP., **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 Hashing and encryption algorithms Book Description Knowing that experienced hackers are itching to test your skills makes security one of the most difficult and high pressured concerns of creating an application The complexity of properly securing an application is compounded when you must also integrate this factor with existing code new technologies and other frameworks Use this book to easily secure your Java application with the tried and trusted Spring Security framework a powerful and highly customizable authentication and access control framework The book starts by integrating a variety of authentication mechanisms It then demonstrates how to properly restrict access to your application It also covers tips on integrating with some of the more popular web frameworks An example of how Spring Security defends against session fixation moves into concurrency control and how you can utilize session management for administrative functions is also included It concludes with advanced security scenarios for RESTful webservices and microservices detailing the issues surrounding stateless authentication and demonstrates a concise step by step approach to solving those issues And by the end of the book readers can rest assured that integrating version 4.2 of Spring Security will be a seamless endeavor from start to finish What you will learn Understand common security

vulnerabilities and how to resolve them Perform initial penetration testing to uncover common security vulnerabilities Utilize existing corporate infrastructure such as LDAP Active Directory Kerberos OpenID and OAuth Integrate with popular frameworks such as Spring Spring Boot Spring Data jQuery and AngularJS Deep understanding of the security challenges with RESTful webservices and microservice architectures Integrate Spring with other security infrastructure components like LDAP Apache Directory server and SAML Who this book is for This book is intended for Java Web and or RESTful webservice developers and assumes a basic understanding of creating Java 8 Java Web and or RESTful webservice applications XML and the Spring Framework You are not expected to have any previous experience with Spring Security

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

Pro Spring Security Carlo Scarioni, Massimo Nardone, 2019-11-21 Build and deploy secure Spring Framework and Spring Boot based enterprise Java applications with the Spring Security Framework This book explores a comprehensive set of functionalities to implement industry standard authentication and authorization mechanisms for Java applications *Pro Spring Security Second Edition* has been updated to incorporate the changes in Spring Framework 5 and Spring Boot 2 It is an advanced tutorial and reference that guides you through the implementation of the security features for a Java web application by presenting consistent examples built from the ground up This book also provides you with a broader look into Spring security by including up to date use cases such as building a security layer for RESTful web services and Grails applications What You Will Learn Explore the scope of security and how to use the Spring Security Framework Master Spring security architecture and design Secure the web tier in Spring Work with alternative authentication providers Take advantage of business objects and logic security Extend Spring security with other frameworks and languages Secure the service layer Who This Book Is For Experienced Spring and Java developers with prior experience in building Spring Framework or Boot based applications [Hack Proofing Your Web Applications](#) Syngress, 2001-06-18 From the authors of

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