

# RESTful Java Web Services Security

Secure your RESTful applications against common vulnerabilities



# Restful Java Web Services Security C Andres Salazar

**Sourabh Sharma** 

# Restful Java Web Services Security C Andres Salazar:

RESTful Java Web Services Security René Enríquez, Andrés Salazar C., 2014-07-25 A seguential and easy to follow guide which allows you to understand the concepts related to securing web apps services quickly and efficiently since each topic is explained and described with the help of an example and in a step by step manner helping you to easily implement the examples in your own projects This book is intended for web application developers who use RESTful web services to power their websites Prior knowledge of RESTful is not mandatory but would be advisable **Mastering Microservices with** Java 9 Sourabh Sharma, 2017-12-07 Master the art of implementing scalable microservices in your production environment with ease About This Book Use domain driven design to build microservices Use Spring Cloud to use Service Discovery and Registeration Use Kafka Avro and Spring Streams for implementing event based microservices Who This Book Is For This book is for Java developers who are familiar with the microservices architecture and now wants to take a deeper dive into effectively implementing microservices at an enterprise level A reasonable knowledge level and understanding of core microservice elements and applications is expected What You Will Learn Use domain driven design to design and implement microservices Secure microservices using Spring Security Learn to develop REST service development Deploy and test microservices Troubleshoot and debug the issues faced during development Learning best practices and common principals about microservices In Detail Microservices are the next big thing in designing scalable easy to maintain applications It not only makes app development easier but also offers great flexibility to utilize various resources optimally If you want to build an enterprise ready implementation of the microservices architecture then this is the book for you Starting off by understanding the core concepts and framework you will then focus on the high level design of large software projects You will gradually move on to setting up the development environment and configuring it before implementing continuous integration to deploy your microservice architecture Using Spring security you will secure microservices and test them effectively using REST Java clients and other tools like RxJava 2 0 We ll show you the best patterns practices and common principals of microservice design and you ll learn to troubleshoot and debug the issues faced during development We ll show you how to design and implement reactive microservices Finally well show you how to migrate a monolithic application to microservices based application By the end of the book you will know how to build smaller lighter and faster services that can be implemented easily in a production environment Style and approach This book starts from the basics including environment setup and provides easy to follow steps to implement the sample project using microservices Restful Iava Web Services Security Rene Enriquez, Andres Salazar C, 2014-01-01 A sequential and easy to follow guide which allows you to understand the concepts related to securing web apps services quickly and efficiently since each topic is explained and described with the help of an example and in a step by step manner helping you to easily implement the examples in your own projects This book is intended for web application developers who use RESTful web services to power their websites

Prior knowledge of RESTful is not mandatory but would be advisable **Java Web Services** Martin Kalin, 2013 Annotation Learn how to develop REST style and SOAP based web services and clients with this guick and thorough introduction This hands on book delivers a clear pragmatic approach to web services by providing an architectural overview complete working code examples and short yet precise instructions for compiling deploying and executing them Youll learn how to write services from scratch and integrate existing services into your Java applications With greater emphasis on REST style services this second edition covers HttpServlet Restlet and JAX RS APIs jQuery clients against REST style services and JAX WS for SOAP based services Code samples include an Apache Ant script that compiles packages and deploys web services Learn differences and similarities between REST style and SOAP based servicesProgram and deliver RESTful web services using Java APIs and implementations Explore RESTful web service clients written in Java JavaScript and PerlWrite SOAP based web services with an emphasis on the application levelExamine the handler and transport levels in SOAP based messagingLearn wire level security in HTTP S users roles security and WS SecurityUse a Java Application Server JAS as an alternative to a standalone web server 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 Token's JWS Hashing and encryption algorithms Book DescriptionKnowing 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

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 EIB 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 **RESTful Java Web Services** José Sandoval, 2009 The approach we take is ideal for software developers with some or extensive programming experience we design a RESTful API which serves as our software specification and implement it with every framework discussed in the book there are no hypothetical examples only practical working applications This book is for Java developers who want to code RESTful web services using any of the open source RESTful frameworks available to date for example JAX RS implementations such as Jersey and RESTEasy the Restlet lightweight framework or Struts 2 with the REST plug in You don t need to know REST as we cover the theory of REST and web services however you should be familiar with the Java language and have some understanding of Java web applications For each framework we develop the same web service outlined in Chapter 4 so there is lots of working code available This is a practical guide and the majority of the book is about coding RESTful web services and not just about the theory of REST

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 ForExperienced Spring and Java developers with prior experience in building Spring

Framework or Boot based applications RESTful Java Web Services Bogunuva Mohanram Balachandar, 2017-11-17 Master core REST concepts and create RESTful web services in Java About This Book Build efficient and secure RESTful web APIs in Java Design solutions to produce consume and visualize RESTful web services using WADL RAML and Swagger Familiarize the role of RESTful APIs usage in emerging technology trends like Cloud IoT Social Media Who This Book Is For If you are a web developer with a basic understanding of the REST concepts and envisage to get acquainted with the idea of designing and developing RESTful web services this is the book for you As all the code samples for the book are written in Java proficiency in Java is a must What You Will Learn Introduce yourself to the RESTful software architectural style and the REST API design principles Make use of the JSR 353 API JSR 374 API JSR 367 API and Jackson API for JSON processing Build portable RESTful web APIs making use of the JAX RS 2 1 API Simplify API development using the Jersey and RESTEasy extension APIs Secure your RESTful web services with various authentication and authorization mechanisms Get to grips with the various metadata solutions to describe produce and consume RESTful web services Understand the design and coding guidelines to build well performing RESTful APIs See how the role of RESTful web services changes with emerging technologies and trends In Detail Representational State Transfer REST is a simple yet powerful software architecture style to create lightweight and scalable web services The RESTful web services use HTTP as the transport protocol and can use any message formats including XML JSON widely used CSV and many more which makes it easily inter operable across different languages and platforms This successful book is currently in its 3rd edition and has been used by thousands of developers It serves as an excellent guide for developing RESTful web services in Java This book attempts to familiarize the reader with the concepts of REST It is a pragmatic guide for designing and developing web services using Java APIs for real life use cases following best practices and for learning to secure REST APIs using OAuth and JWT Finally you will learn the role of RESTful web services for future technological advances be it cloud IoT or social media By the end of this book you will be able to efficiently build robust scalable and secure RESTful web services using Java APIs Style and approach Step by step guide to designing and developing robust RESTful web services Each topic is explained in a simple and easy to understand manner with lots of real life use cases and their solutions **Pro Spring Security** Carlo Scarioni, 2013-03-25 Security is a key element in the development of any non trivial application The Spring Security Framework provides a comprehensive set of functionalities to implement industry standard authentication and authorization mechanisms for Java applications Pro Spring Security will be a reference and advanced tutorial that will do the following Guides you through the implementation of the security features for a Java web application by presenting consistent examples built from the ground up Demonstrates the different authentication and authorization methods to secure enterprise level applications by using the Spring Security Framework 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 Restful Web Services with Java Luan Nico, 2019

RESTful Web Services is a stateless client server architecture where web services are resources and can be identified by their URIs Implementing RESTful Web Services with Java helps to simplify the development and deployment of web services. This course will show you how to implement a REST Web Service API in Java from scratch using servlets covering the basic concepts. This will be later followed by improvements in security authentication authorization scalability performance API modeling CORS versioning and documentation Finally you will find out what libraries are available to help you implement an API with ease how to integrate with different layers and kinds of dependencies how to integrate with other APIs and where and how to deploy your application Resource description page

Restful Java: With Jax-Rs Bill Burke,2010 Learn how to design and develop distributed web services in Java using RESTful architectural principals and the JAX RS specification in Java EE 6 With this hands on reference you ll focus on implementation rather than theory and discover why the RESTful method is far better than technologies like CORBA and SOAP

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web building instructions start by building the castor bot click the picture for building instructions use the shortest wire for this step connect the wire from the touch sensor to port 1 on the nxt you can route the wire around the round cross brace under the robot to keep it out of the way use the program bumper car for your bumper car