

# Read Book Apache CXF Web Service Development Pdf For Free

Apache CXF Web Service Development Advanced JAX-WS Web Services Developing Web Services with Apache CXF and Axis2 (3rd Edition) Apache Karaf Cookbook Java Web Services: Up and Running Web Service Implementation and Composition Techniques JBoss: Developer's Guide Rama Revealed Service Design Patterns Exploring Services Science Advanced Jax-Ws Web Services RESTful Java with JAX-RS Mule 2 Enterprise Integration Patterns SoapUI Cookbook Web Services mit Apache CXF RESTful Java Web Services RESTful Java Web Services Java SOA Cookbook Web Services Security Spring Web Services Cookbook Camel in Action Open-Source ESBs in Action Java EE 7 Development with WildFly The Definitive Guide to HTML5 WebSocket Java Web Services Spring 5 Recipes Apache Camel Developer's Cookbook Software Quality. Increasing Value in Software and Systems Development Programming Grails Spring Recipes Spring MVC Blueprints Alfresco 3 Web Services Enterprise OSGi In Action Practical Web Design for Absolute Beginners Service Engineering Handbook of Research on E-Business Standards and Protocols: Documents, Data and Advanced Web Technologies JBoss AS 7 Development Service Oriented Computing RESTful Java with

JAX-RS 2.0

This book constitutes the refereed proceedings of the 5th Software Quality Days Conference (SWQD) held in Vienna, Austria, in January 2013. This professional symposium and conference offers a range of comprehensive and valuable opportunities for advanced professional training, new ideas, and networking with a series of keynote speeches, professional lectures, exhibits, and tutorials. The seven scientific full papers accepted for SWQD were each peer-reviewed by three or more reviewers and selected out of 18 high-quality submissions. Further, two keynotes and six short papers on promising research directions were also presented and included in order to spark discussions between researchers and practitioners. The papers are organized into topical sections on risk management; software and systems testing; test processes; model-based development; and process improvement and measurement. Electronic business is a major force shaping the digital world. Yet, despite of years of research and standardization efforts, many problems persist that prevent e-business from achieving its full potential. Problems arise from different

data vocabularies, classification schemas, document names, structures, exchange formats and their varying roles in business processes. Non-standardized business terminology, lack of common acceptable and understandable processes (grammar), and lack of common dialog rules (protocols) create barriers to improving electronic business processes. Handbook of Research on E-Business Standards and Protocols: Documents, Data and Advanced Web Technologies contains an overview of new achievements in the field of e-business standards and protocols, offers in-depth analysis of and research on the development and deployment of cutting-edge applications, and provides insight into future trends. This book unites new research that promotes harmony and agreement in business processes and attempts to choreograph business protocols and orchestrate semantic alignment between their vocabularies and grammar. Additionally, this Handbook of Research discusses new approaches to improving standards and protocols, which include the use of intelligent agents and Semantic Web technology. Java SOA Cookbook offers practical solutions and advice to programmers charged with

implementing a service-oriented architecture (SOA) in their organization. Instead of providing another conceptual, high-level view of SOA, this cookbook shows you how to make SOA work. It's full of Java and XML code you can insert directly into your applications and recipes you can apply right away. The book focuses primarily on the use of free and open source Java Web Services technologies -- including Java SE 6 and Java EE 5 tools -- but you'll find tips for using commercially available tools as well. Java SOA Cookbook will help you:

- Construct XML vocabularies and data models appropriate to SOA applications
- Build real-world web services using the latest Java standards, including JAX-WS 2.1 and JAX-RS 1.0 for RESTful web services
- Integrate applications from popular service providers using SOAP, POX, and Atom
- Create service orchestrations with complete coverage of the WS-BPEL (Business Process Execution Language) 2.0 standard
- Improve the reliability of SOAP-based services with specifications such as WS-Reliable Messaging
- Deal with governance, interoperability, and quality-of-service issues

The recipes in Java SOA Cookbook will equip you with the knowledge you need to approach SOA as an integration challenge, not an obstacle. Build your own enterprise applications and integration flows with JBoss and its products

About This Book Build fast, smart, and flexible applications using JBoss Couple one or more JBoss

products to effectively solve various business problems

Explore the JBoss product ecosystem for improving the performance of your projects

Who This Book Is For If you are a Java developer who wants to have a complete view of the JBoss ecosystem or quickly explore a specific JBoss Product, then this is the book you want. Integrators and consultants, familiar with JBoss, who want integrate several JBoss products within their ongoing project will also find this book useful.

What You Will Learn

- Create new applications or integrate existing systems with JBoss products
- Setup and manage a JBoss domain
- Setup and manage a JBoss Fuse cluster with Fabric and Apache Karaf
- Create and deploy OSGi applications on JBoss Fuse containers
- Manage enterprise data with JBoss Datagrid
- Aggregate various data sources with JBoss Data virtualization to offer data as a service
- Optimize your business and workflows with both JBoss Business Rules Management System and JBoss Business Process Management platforms.

In Detail Have you often wondered what is the best JBoss product to solve a specific problem? Do you want to get started with a specific JBoss product and know how to integrate different JBoss products in your IT Systems? Then this is the book for you. Through hands-on examples from the business world, this guide presents details on the major products and how you can build your own Enterprise services around the JBoss

ecosystem. Starting with an introduction to the JBoss ecosystem, you will gradually move on to developing and deploying clustered application on JBoss Application Server, and setting up high availability using undertow or HA proxy loadbalancers. As you are moving to a micro service architecture, you will be taught how to package existing Java EE applications as micro service using Swarm or create your new micro services from scratch by coupling most popular Java EE frameworks like JPA, CDI with Undertow handlers. Next, you will install and configure JBoss Data grid in development and production environments, develop cache based applications and aggregate various data source in JBoss data virtualization. You will learn to build, deploy, and monitor integration scenarios using JBoss Fuse and run both producers/consumers applications relying on JBoss AMQ. Finally, you will learn to develop and run business workflows and make better decisions in your applications using Drools and Jboss BPM Suite Platform.

Style and Approach The book works through the major JBoss products, with examples and instructions to help you understand each product and how they work together. Learn how to design and develop distributed web services in Java, using RESTful architectural principles and the JAX-RS 2.0 specification in Java EE 7. By focusing on implementation rather than theory, this hands-on reference demonstrates how easy it is to

get started with services based on the REST architecture. With the book's technical guide, you'll learn how REST and JAX-RS work and when to use them. The RESTEasy workbook that follows provides step-by-step instructions for installing, configuring, and running several working JAX-RS examples, using the JBoss RESTEasy implementation of JAX-RS 2.0. Learn JAX-RS 2.0 features, including a client API, server-side asynchronous HTTP, and filters and interceptors Examine the design of a distributed RESTful interface for an e-commerce order entry system Use the JAX-RS Response object to return complex responses to your client (ResponseBuilder) Increase the performance of your services by leveraging HTTP caching protocols Deploy and integrate web services within Java EE7, servlet containers, EJB, Spring, and JPA Learn popular mechanisms to perform authentication on the Web, including client-side SSL and OAuth 2.0 Design scalable and robust RESTful web services with JAX-RS and Jersey extension APIs About This Book Get to grips with the portable Java APIs used for JSON processing Design solutions to produce, consume, and visualize RESTful web services using WADL, RAML, and Swagger A step-by-step guide packed with many real-life use-cases to help you build efficient and secure RESTful web APIs in Java Who This Book Is For If you are a web developer with a basic understanding of the REST concepts but are new to 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 APIs and Jackson API for JSON processing Build portable RESTful web APIs, making use of the JAX-RS 2.0 API Simplify API development using the Jersey 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 REST (REpresentational State Transfer) is a simple yet powerful software architecture style to create scalable web services and allow them to be simple, lightweight, and fast. The REST API uses HTTP and JSON, so that it can be used with many programming languages such as Ruby, Java, Python, and Scala. Its use in Java seems to be the most popular though, because of the API's reusability. This book is a guide to developing RESTful web services in Java using the popular RESTful framework APIs available today. You will begin with gaining an in-depth knowledge of the RESTful software architectural style and

its relevance in modern applications. Further, you will understand the APIs to parse, generate, transform, and query JSON effectively. Then, you will see how to build a simple RESTful service using the popular JAX-RS 2.0 API along with some real-world examples. This book will introduce you to the Jersey framework API, which is used to simplify your web services. You will also see how to secure your services with various authentication mechanisms. You will get to grips with various solutions to describe, produce, consume, and visualize RESTful web services. Finally, you will see how to design your web services to equip them for the future technological advances, be it Cloud or mobile computing. By the end of this book, you will be able to efficiently build robust, scalable, and secure RESTful web services, making use of the JAX-RS and Jersey framework extensions. Style and approach This book is written as a 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. Mule 2: A Developer's Guide introduces the Mule 2.0 integration platform for developers of enterprise integration applications who wish to leverage Mule as a lightweight messaging framework that contains a distributable object broker for managing communication between applications. The book is based on insight, knowledge,

and experience resulting from working with Mule. The text provides support, consulting, and training to developers implementing Mule in a broad range of scenarios ranging from small projects through to large corporations developing major deployments. The author(s) have also developed the official training materials for Mule. On its mysterious voyage through interstellar space, a massive alien starship carries its human passengers to the end of a generations-long odyssey. But the great experiment designed by the Ramans has failed, and Rama III has become a battleground. Fleeing a tyrant, a band of humans ventures into the nether regions of the ship, where they encounter an emerald-doomed lair ruled by the fabulously advanced octospiders. As the octospiders lure the humans deeper into their domain, the humans must decide whether the creatures are their allies or enemies. All the while, Rama III continues its in-explorable journey towards the node, where the climax of their voyage awaits the stunning revelation of the true identity of the beings behind this glittering trek across the cosmos. If you'd like to learn how to create web services (in particular, using Apache CXF or Axis2) and make some sense of various standards like JAX-WS, JAX-RS, JAXB, SOAP, WSDL, REST, MTOM, WS-Security, WS-Policy, XML Encryption and XML Signature, then this book is for you. Why?1) It has a tutorial style that walks you through in a step-by-step

manner.2) It is concise. There is no lengthy, abstract description.3) Many diagrams are used to show the flow of processing and high level concepts so that you get a whole picture of what's happening.4) It contains working code.5) The first two chapters are freely available on <http://www.agileskills2.org>. You can judge it yourself. Dig deeper into Grails architecture and discover how this application framework works its magic. Written by a core developer on the Grails team, this practical guide takes you behind the curtain to reveal the inner workings of its 2.0 feature set. You'll learn best practices for building and deploying Grails applications, including performance, security, scaling, tuning, debugging, and monitoring. Understand how Grails integrates with Groovy, Spring, Hibernate, and other JVM technologies, and learn how to create and use plugins to augment your application's functionality. Once you know how Grails adds behavior by convention, you can solve problems more easily and develop applications more intuitively. Write simpler, more powerful code with the Groovy language Manage persistence in Grails, using Hibernate or a NoSQL datastore Learn how Grails uses Spring's functionality and optional modules Discover how Hibernate handles details for storing and retrieving data Integrate technologies for messaging, mail, creating web services, and other JEE technologies Bypass convention

and configure Grails manually Learn a general approach to upgrading applications and plugins Use Grails to develop and deploy IaaS and PaaS applications 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. It's easy to get started with services based on the REST architecture. RESTful Java with JAX-RS includes a technical guide that explains REST and JAX-RS, how they work, and when to use them. With the RESTEasy workbook that follows, you get step-by-step instructions for installing, configuring, and running several working JAX-RS examples using the JBoss RESTEasy implementation of JAX-RS. Work on the design of a distributed RESTful interface, and develop it in Java as a JAX-RS service Dispatch HTTP requests in JAX-RS, and learn how to extract information from them Deploy your web services within Java Enterprise Edition using the Application class, Default Component Model, EJB Integration, Spring Integration, and JPA Discover several options for securing your web services Learn how to implement RESTful design patterns using JAX-RS Write RESTful clients in Java using libraries and frameworks such as `java.net.URL`, Apache HTTP Client, and RESTEasy Proxy Learn the fundamentals of

modern web design, rather than relying on CMS programs, such as WordPress or Joomla!. You will be introduced to the essentials of good design and how to optimize for search engines. You will discover how to register a domain name and migrate a website to a remote host. Because you will have built the web pages yourself, you will know exactly how HTML and CSS work. You have will complete control over your websites and their maintenance. Practical Website Design for Absolute Beginners centers around introducing small amounts of new code in short practical chapters and provides many website templates that can be easily adapted for your own websites. Each chapter builds on the templates created in the previous chapter. You are provided with a practical project to complete in most chapters, and taught to produce practical web pages right from the start. In the first chapter you will install and configure a free text editor, then you will produce the structure for your first web page. You will then gradually learn to create more sophisticated and increasingly practical web pages and websites. In this book you will be encouraged by means of a series of achievable goals, and you will be rewarded by the knowledge that you are learning something valuable and really worthwhile. You will not have to plow through daunting chapters of disembodied code theory because the code is described and explained in context within

each project. Because each project is fully illustrated, you will see clearly what you are expected to achieve as you create each web page. What You'll Learn Provides instructions for installing a text editor for producing HTML and CSS Shows you step-by-step how to build and test web pages and websites Teaches you how to ensure that your websites are attractive and useful Describes how to make the most effective use of color and images Teaches you the essential features of search engine optimization Shows you how to migrate your website to a remote host Who This Book Is For Practical Website Design for Absolute Beginners is for people who want to begin designing their own websites. It uses a highly motivational, easily assimilated step-by-step approach where you will start learning practical skills from the very first chapter. The book is an excellent choice for people who have computer skills but would also like to learn HTML and CSS. For readers who have little or no knowledge of HTML and CSS, the book will teach enough to complete all the projects in the book. This book is written in a Cookbook style with short recipes showing developers how to effectively implement EIP without breaking everything in the process. It is concise and to the point, and it helps developers get their data flowing between different components without the need to read through page upon page of theory, while also enabling the reader to learn how to create exciting new

projects. Camel Enterprise Integration Cookbook is intended for developers who have some familiarity with Apache Camel and who want a quick lookup reference to practical, proven tips on how to perform common tasks. Every recipe also includes a summary and reference pointers for more details that make it easy for you to get a deeper understanding of the Apache Camel capabilities that you will use day to day. This volume offers the experienced Java developer a way into the Web services world. It explains the range of technologies in use and how they relate to Java and shows Java developers how to put them to use to solve real problems. Build Alfresco applications using Web Services, WebScripts and CMIS. If you are a Java developer who wants to learn about Java EE, this is the book for you. It's also ideal for developers who already have experience with the Java EE platform but would like to learn more about the new Java EE 7 features by analyzing fully functional sample applications using the new application server WildFly. This book is aimed at developers and technical testers who are looking for a quick way to take their SoapUI skills and understanding to the next level. Even if you are new to SoapUI but have basic Java skills and a reasonable grasp of RESTful and Soap web services, then you should have no problem making use of this book. This book will kick-start your productivity and help you to master JBoss AS development.

The author's experience with JBoss enables him to share insights on JBoss AS development in a clear and friendly way. By the end of the book, you will have the confidence to apply all the newest programming techniques to your JBoss applications. If you are a Java architect or developer who wants to get the most out of the latest release of the JBoss application server, then this book is for you. You are not expected to have accumulated experience on the application server though you must know the basic concepts of Java EE. Das Buch "Web Services mit Apache CXF" bietet einen schnellen Einstieg in die Technik der Web Service Entwicklung. Dazu wird zunächst ein durchgängiges Beispiel zur Vorstellung der Entwicklungswerkzeuge vorgestellt. Im Anschluss daran beschreibt der Autor die theoretischen Grundlagen. Dabei ist es ihm wichtig, dass auch der noch ungeübte Entwickler den schnellen Einstieg in die Methoden findet. Service engineering is increasingly posing challenges to traditional software engineering methodologies including specification, modeling, architecture, and verification, just to name a few. On the other hand, the latest advancements in software engineering are continuously leveraged in Service Engineering research, especially in the design and implementation of service-oriented systems. Several mutual impacts between service engineering and

software engineering could be observed in the last decade, and many research efforts have been devoted to the field. However, in spite of the considerable efforts and significant contributions, few have attempted to summarize the research results systematically. Design and implement real-world web-based applications using the Spring Framework 4.x specification based on technical documentation About This Book Learn all the details of implementing Spring 4.x MVC applications from basic core platform construction to advanced integration implementations Gain a complete reference guide to implementing the controllers, models, views, view resolvers, and other service-related components to solve various real-world problems Discover the possible optimal solutions for developers and experts to build enterprise and personal web-based applications Create a Spring MVC application that has a validation process and exception handling with the HTTP status codes Who This Book Is For This book is for competent Spring developers who wish to understand how to develop complex yet flexible applications with Spring MVC. You must have a good knowledge of JAVA programming and be familiar with the basics of Spring. What You Will Learn Set up and configure the Spring 4.x MVC platform from ground level up using the basic Spring Framework 4.x APIs Study requirements and manage solutions on file uploading

transactions in Spring 4.x applications Configure, , and test Spring integration to the Hibernate, MyBatis, and JPA frameworks for database transactions Properly implement exception handlers and audit trails in Spring MVC applications Generate reports using JFreeChart, Google Charts, JasperReports, DynamicReports, FreeMarker, Velocity, and Spring's API known as ContentNegotiatingViewResolver Configure security and flexibility by adding Captcha, Spring Security, Spring Flow, Spring Portlets, JTA to improve data management performance Implement web services using Spring's RESTful implementation and other service-oriented integration plugins Design and implement a Spring 4.x application using AngularJS, ExtJs, Twitter Bootstrap, and Spring Mobile for responsive web design In Detail Spring MVC is the ideal tool to build modern web applications on the server side. With the arrival of Spring Boot, developers can really focus on the code and deliver great value, leveraging the rich Spring ecosystem with minimal configuration. Spring makes it simple to create RESTful applications, interact with social services, communicate with modern databases, secure your system, and make your code modular and easy to test. It is also easy to deploy the result on different cloud providers. This book starts all the necessary topics in starting a Spring MVC-based application. Moving ahead it explains how to design model

objects to handle file objects. save files into a data store and how Spring MVC behaves when an application deals with uploading and downloading files. Further it highlights form transactions and the user of Validation Framework as the tool in validating data input. It shows how to create a customer feedback system which does not require a username or password to log in. It will show you the soft side of Spring MVC where layout and presentation are given importance. Later it will discuss how to use Spring Web Flow on top of Spring MVC to create better web applications. Moving ahead, it will teach you how create an Invoice Module that receives and transport data using Web Services By the end of the book you will be able to create efficient and flexible real-time web applications using all the frameworks in Spring MVC. Style and approach This book is a compendium of technical specification documents that will guide you through building an application using Spring 4.x MVC. Each chapter starts with a high-level wireframe design of the software followed by how to set up and configure different libraries and tools. In this book you'll learn the concepts of SOAP based Web Services architecture and get practical advice on building and deploying Web Services in the enterprise. Starting from the basics and the best practices for setting up a development environment, this book enters into the inner details of the JAX-WS in a clear and concise way. You will also

learn about the major toolkits available for creating, compiling and testing SOAP Web Services and how to address common issues such as debugging data and securing its content. This book is intended for developers who have some familiarity with Apache Karaf and who want a quick reference for practical, proven tips on how to perform common tasks such as configuring Pax modules deployed in Apache Karaf, Extending HttpService with Apache Karaf. You should have working knowledge of Apache karaf, as the book provides a deeper understanding of the capabilities of Apache Karaf. This is a cookbook full of recipes with the essential code explained clearly and comprehensively. Each chapter is neatly compartmentalized with focused recipes which are perfectly organized for easy reference and understanding. This book is for Java/J2EE developers. As the books covers a variety of topics in Web-Service development, it will serve as a reference guide to those already familiar with Web-Services. Beginners can also use this book to gain real-world experience of Web-Service development. This book embarks on a mission to dissect, unravel and demystify the concepts of Web services, including their implementation and composition techniques. It provides a comprehensive perspective on the fundamentals of implementation standards and strategies for Web services (in the first half of the book), while also presenting composition

techniques for leveraging existing services to create larger ones (in the second half). Pursuing a unique approach, it begins with a sound overview of concepts, followed by a targeted technical discussion that is in turn linked to practical exercises for hands-on learning. For each chapter, practical exercises are available on Github. Mainly intended as a comprehensive textbook on the implementation and composition of Web services, it also offers a useful reference guide for academics and practitioners. Lecturers will find this book useful for a variety of courses, from undergraduate courses on the foundational technology of Web services through graduate courses on complex Web service composition. Students and researchers entering the field will benefit from the combination of a broad technical overview with practical self-guided exercises. Lastly, professionals will gain a well-informed grasp of how to synthesize the concepts of conventional and "newer" breeds of Web services, which they can use to revise foundational concepts or for practical implementation tasks. The Definitive Guide to HTML5 WebSocket is the ultimate insider's WebSocket resource. This revolutionary new web technology enables you to harness the power of true real-time connectivity and build responsive, modern web applications. This book contains everything web developers and architects need to know about WebSocket. It discusses how WebSocket-

based architectures provide a dramatic reduction in unnecessary network overhead and latency compared to older HTTP (Ajax) architectures, how to layer widely used protocols such as XMPP and STOMP on top of WebSocket, and how to secure WebSocket connections and deploy WebSocket-based applications to the enterprise. Build real-time web applications with HTML5. This book: Introduces you to the WebSocket API and protocol Describes and provides real-world examples of protocol communication over WebSocket Explains WebSocket security and enterprise deployment In this book you'll learn the concepts of SOAP based Web Services architecture and get practical advice on building and deploying Web Services in the enterprise. Starting from the basics and the best practices for setting up a development environment, this book enters into the inner details of the JAX-WS in a clear and concise way. You will also learn about the major toolkits available for creating, compiling and testing SOAP Web Services and how to address common issues such as debugging data and securing its content. What you will learn: Move your first steps with SOAP Web Services. Developing Web Services using top-down and bottom-up approach. Using Maven archetypes to speed up Web Services creation. Getting into the details of JAX-WS types: Java to XML mapping and XML to Java Developing SOAP Web Services on WildFly 8 and Tomcat. Running native Apache

CXF on WildFly Securing Web Services. Applying authentication policies to your services. Encrypting the communication. Enterprise Integration Patterns provides an invaluable catalog of sixty-five patterns, with real-world solutions that demonstrate the formidable of messaging and help you to design effective messaging solutions for your enterprise. The authors also include examples covering a variety of different integration technologies, such as JMS, MSMQ, TIBCO ActiveEnterprise, Microsoft BizTalk, SOAP, and XSL. A case study describing a bond trading system illustrates the patterns in practice, and the book offers a look at emerging standards, as well as insights into what the future of enterprise integration might hold. This book provides a consistent vocabulary and visual notation framework to describe large-scale integration solutions across many technologies. It also explores in detail the advantages and limitations of asynchronous messaging architectures. The authors present practical advice on designing code that connects an application to a messaging system, and provide extensive information to help you determine when to send a message, how to route it to the proper destination, and how to monitor the health of a messaging system. If you want to know how to manage, monitor, and maintain a messaging system once it is in use, get this book. Explains how to implement secure Web services and includes coverage

of trust, confidentiality, cryptography, authentication, authorization, and Kerberos. You'll also find details on Security Assertion Markup Language (SAML), XML Key Management Specification (XKMS), XML Encryption, Hypertext Transfer Protocol-Reliability (HTTP-R) and more. Most modern business systems include independent applications that exchange information with each other-a technique usually called enterprise integration. An architectural approach called the Enterprise Service Bus (ESB) offers developers a way to handle the messages between those independent applications without creating a lot of custom code. While commercial ESB solutions can be quite expensive to implement and maintain, a set of high-quality open source ESB tools offer the same functionality at a substantially lower cost. Open Source ESBs in Action shows you how to implement and use two open source ESB implementations: Mule and ServiceMix. The authors introduce you to these freely-available ESB tools and present practical examples of how to use them in real-world scenarios. You will learn how the various features of an ESB such as transformation, routing, security, connectivity and more can be implemented using Mule and ServiceMix. You will also learn how to solve common enterprise integration problems using a structured approach. Beyond simply learning how Mule and Service Mix work, you'll learn the core techniques of ESB



implementation such as Process Choreography, or the implementation of complex business processes through an ESB, and Service Orchestration, or exposing a set of services as a single service. The book shows you the fundamentals of ESB-based event processing and Quality of Service concerns like security, reliable delivery, and transaction management. Working in integration projects is exciting, with new technologies and paradigms arriving every day. Open Source technologies like Mule and ServiceMix both offer lower-cost solutions and a higher degree of innovation than commercial ESB implementations. Open Source ESBs in Action will help you master ESB-driven integration techniques quickly and will provide you with knowledge you need to work effectively with Mule and ServiceMix. Purchase of the print book comes with an offer of a free PDF, ePub, and Kindle eBook from Manning. Also available is all code from the book. This example-driven book offers a thorough introduction to Java's APIs for XML Web Services (JAX-WS) and RESTful Web Services (JAX-RS). Java Web Services: Up and Running takes a clear, pragmatic approach to these technologies by providing a mix of architectural overview, complete working code examples, and short yet precise instructions for compiling, deploying, and executing an application. You'll learn how to write web services from scratch and integrate existing

services into your Java applications. With Java Web Services: Up and Running, you will: Understand the distinction between SOAP-based and REST-style services Write, deploy, and consume SOAP-based services in core Java Understand the Web Service Definition Language (WSDL) service contract Recognize the structure of a SOAP message Learn how to deliver Java-based RESTful web services and consume commercial RESTful services Know security requirements for SOAP- and REST-based web services Learn how to implement JAX-WS in various application servers Ideal for students as well as experienced programmers, Java Web Services: Up and Running is the concise guide you need to start working with these technologies right away. "Forewords by Martin Fowler and Ian Robinson"--From front cover. The discipline of Services Science, introduced by IBM in 2002, has emerged and matured in a true transdisciplinary atmosphere. Encompassing disciplines not only in management and engineering, it also draws from disciplines such as social and cognitive sciences, law, ethics, economics etc. to address the theoretical and practical aspects of the challenging services industry and its economy. Services Science leverages methods, results and knowledge stemming from these disciplines towards the development of its own concepts, methods, techniques and approaches thus creating the basis for true trans-

disciplinary gatherings and the production of transdisciplinary results. Services Science is building a concrete framework for transdisciplinary purposes. IESS1.0 - the First International Conference on Exploring Services Science - was the first international conference held in Europe in this domain. The conference took place during February 17-19, 2010 in Geneva, Switzerland. The goal of the conference was to build upon the growing community to further study and understand this emerging discipline. Academics, researchers and practitioners of all disciplines were invited to contribute their results and approaches to Services Science in a transdisciplinary setting. In order to achieve the best possible mix of disciplines and their representation, the conference call for papers was structured around transdisciplinary service research topics including service innovation, service exploration, service design, service engineering, and service sustainability, and around more disciplinary oriented service contexts such as: sectors and services, IT and services, foundations of services science, and governance and management. Summary Enterprise OSGi in Action is a hands-on guide for developers using OSGi to build the next generation of enterprise Java applications. By presenting relevant examples and case studies, this book guides the reader through the maze of new standards and projects. About This Book Enterprise OSGi is a set of

standards for building modular Java applications which integrate seamlessly with existing Java EE technologies. It extends the OSGi component framework to distributed systems. Enterprise OSGi in Action is a hands-on guide for developers using OSGi to build enterprise Java applications. Many examples and case studies show you how to build, test, and deploy modular web applications. The book explains how to take advantage of dynamism, distribution, and automatic dependency provisioning, while still integrating with existing Java EE applications. The book is written for Java EE developers. No prior experience with OSGi is required. What's Inside Build modular applications using servlets, JSPs, WARs, and JPA Better component reuse and robustness Expert tips for Apache Aries Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications. About the Authors Holly Cummins and Tim Ward are lead engineers who regularly speak at developerWorks, DevOxx, JavaZone, and EclipseCon. Tim has written standards in both the OSGi Core and Enterprise Specifications and both authors are active Apache Aries committers. Table of Contents PART 1 PROGRAMMING BEYOND HELLO WORLD OSGi and the enterprise—why now? Developing a simple OSGi-based web application Persistence pays off Packaging your enterprise OSGi applications PART 2 BUILDING BETTER ENTERPRISE OSGi

APPLICATIONS Best practices for enterprise applications Building dynamic applications with OSGi services Provisioning and resolution Tools for building and testing IDE development tools PART 3 INTEGRATING ENTERPRISE OSGi WITH EVERYTHING ELSE Hooking up remote systems with distributed OSGi Migration and integration Coping with the non-OSGi world Choosing a stack This book constitutes the refereed proceedings of the 9th International Conference on Service-Oriented Computing, ICSOC 2011, held in Paphos, Cyprus, in December 2011. The 54 revised papers presented were carefully reviewed and selected from 184 submissions. The papers are organized in topical sections on business process modeling, quality of service, formal methods, XaaS computing, service discovery, service security and trust, service runtime infrastructures and service applications. Spring Recipes: A Problem-Solution Approach, Third Edition builds upon the best-selling success of the previous editions and focuses on the latest Spring Framework features for building enterprise Java applications. This book provides code recipes for the following, found in the latest Spring: Spring fundamentals: Spring IoC container, Spring AOP/ AspectJ, and more. Spring enterprise: Spring Java EE integration, Spring Integration, Spring Batch, Spring Remoting, messaging, transactions, and working with big data and the cloud using Hadoop and MongoDB. Spring

web: Spring MVC, other dynamic scripting, integration with the popular Grails Framework (and Groovy), REST/web services, and more This book guides you step-by-step through topics using complete and real-world code examples. When you start a new project, you can consider copying the code and configuration files from this book, and then modifying them for your needs. This can save you a great deal of work over creating a project from scratch! This book provides a quick start in developing web services using the open source Apache CXF framework. Each chapter uses illustrations from an Order Processing Application and all the code examples are built using the ANT tool. These practical, simple, and easy-to-work-with illustrations are accompanied by step-by-step instructions. As a developer you can take advantage of these practical scenarios to understand the CXF framework and also make use of them in real-life applications. After reading this book, you will be able to develop and deploy services using the CXF framework. This book is for developers who want to design and develop SOAP and RESTful services using Apache CXF framework and leverage various CXF features for service development. It is ideal for developers who have some experience in Java application development as well as some basic knowledge of web services, but it covers some of the basic fundamentals of web services and REST to get you

acquainted with these technologies before using these concepts to develop services using the CXF framework. Summary Camel in Action, Second Edition is the most complete Camel book on the market. Written by core developers of Camel and the authors of the highly acclaimed first edition, this book distills their experience and practical insights so that you can tackle integration tasks like a pro. Forewords by James Strachan and Dr. Mark Little Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications. About the Technology Apache Camel is a Java framework that implements enterprise integration patterns (EIPs) and comes with over 200 adapters to third-party systems. A concise DSL lets you build integration logic into your app with just a few lines of Java or XML. By using Camel, you benefit from the testing and experience of a large and vibrant open source community. About the Book Camel in Action, Second Edition is the definitive guide to the Camel framework. It starts with core concepts like sending, receiving, routing, and transforming data. It then goes in depth on many topics such as how to develop, debug, test, deal with errors, secure, scale, cluster, deploy, and monitor your Camel applications. The book also discusses how to run Camel with microservices, reactive systems, containers, and in the cloud. What's Inside Coverage of all relevant EIPs Camel microservices with

Spring Boot Camel on Docker and Kubernetes Error handling, testing, security, clustering, monitoring, and deployment Hundreds of examples in Java and XML About the Reader Readers should be familiar with Java. This book is accessible to beginners and invaluable to experts. About the Author Claus Ibsen is a senior principal engineer working for Red Hat specializing in cloud and integration. He has worked on Apache Camel for the last nine years where he heads the project. Claus lives in Denmark. Jonathan Anstey is an engineering manager at Red Hat and a core Camel contributor. He lives in Newfoundland, Canada. Table of Contents Part 1 - First steps Meeting Camel Routing with Camel Part 2 - Core Camel Transforming data with Camel Using beans with Camel Enterprise integration patterns Using components Part 3 - Developing and testing Microservices Developing Camel projects Testing RESTful web services Part 4 - Going further with Camel Error handling Transactions and idempotency Parallel processing Securing Camel Part 5 - Running and managing Camel Running and deploying Camel Management and monitoring Part 6 - Out in the wild Clustering Microservices with Docker and Kubernetes Camel tooling Bonus online chapters Available at <https://www.manning.com/book/s/camel-in-action-second-edition> and in electronic versions of this book: Reactive Camel Camel and the IoT by Henryk Konsek 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. Solve all your Spring 5 problems using complete and real-world code examples. When you start a new project, you'll be able to copy the code and configuration files from this book, and then modify them for your needs. This can save you a great deal of work over creating a project from

scratch. The recipes in Spring 5 Recipes cover Spring fundamentals such as Spring IoC container, Spring AOP/AspectJ, and more. Other recipes include Spring enterprise solutions for topics such as Spring Java EE integration, Spring Integration, Spring Batch, Spring Remoting, messaging, transactions, and working with big data and the cloud using Hadoop and MongoDB. Finally, Spring web recipes cover Spring MVC, other dynamic scripting, integration with the popular Grails Framework (and Groovy), REST/web services, and more. You'll also see recipes on new topics such as Spring Framework 5, reactive Spring, Spring 5 microservices, the functional web framework and much more. This book builds upon the best-selling success of the previous editions and focuses on the latest Spring Framework features for building enterprise Java applications. What You'll Learn Get re-usable code recipes and snippets for core Spring, annotations and other development tools Access Spring MVC for web development Work with Spring REST and microservices for web services development and integration into your enterprise Java applications Use Spring Batch, NoSQL and big data for building and integrating various cloud computing services and resources Integrate Java Enterprise Edition and other Java APIs for use in Spring Use Grails code and much more Who This Book Is For Experienced Java and Spring programmers.

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