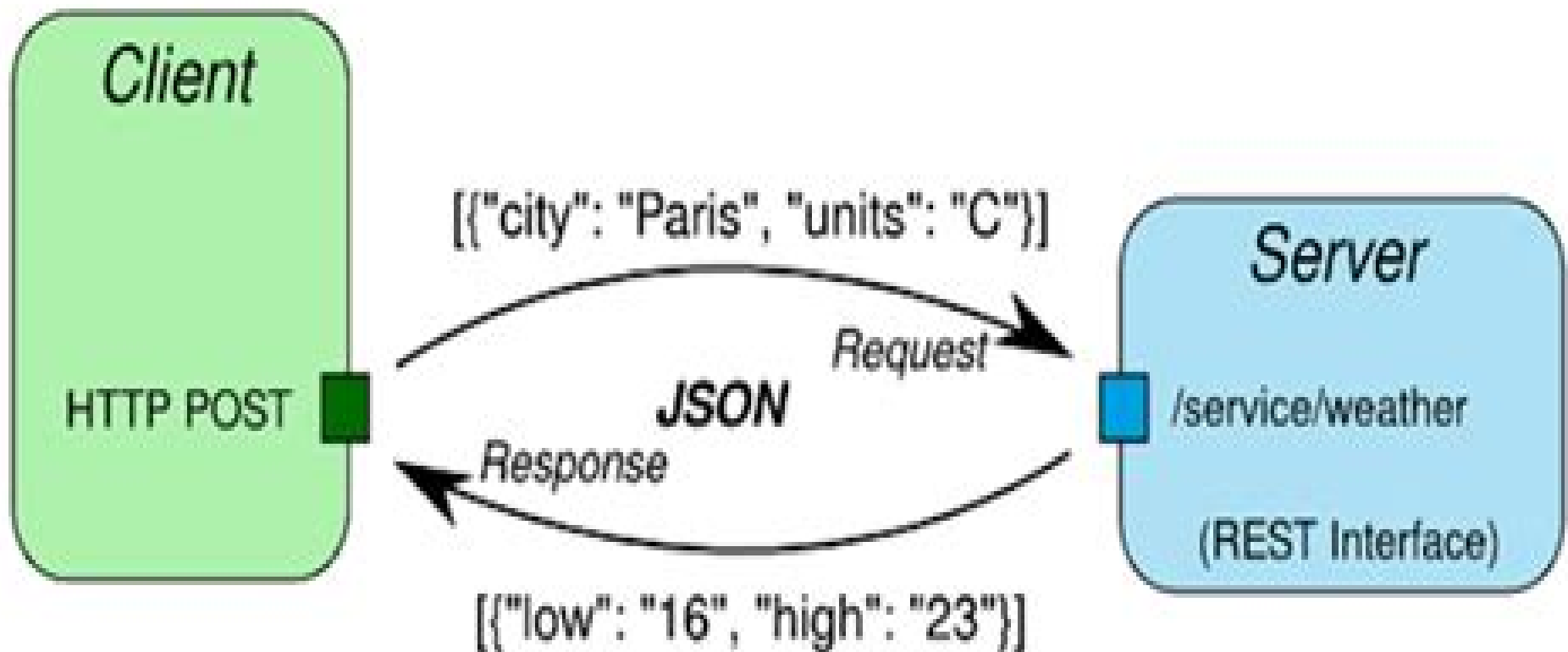


# RESTful Web Service in Java



# Restful Microservices Java

**Jasmine Kaur,Ayush Kumar Mishra**



## **Restful Microservices Java:**

Spring REST Balaji Varanasi, Maxim Bartkov, 2022 Design and develop Java based RESTful APIs using the latest versions of the Spring MVC and Spring Boot frameworks This book walks you through the process of designing and building a REST application while delving into design principles and best practices for versioning security documentation error handling paging and sorting Spring REST provides a brief introduction to REST HTTP and web infrastructure You will learn about several Spring projects such as Spring Boot Spring MVC Spring Data JPA and Spring Security and the role they play in simplifying REST application development You will learn how to build clients that consume REST services Finally you will learn how to use the Spring MVC test framework to unit test and integration test your REST API After reading this book you will come away with all the skills to build sophisticated REST applications using Spring technologies You will Build Java based microservices native cloud or any applications using Spring REST Employ Spring MVC and RESTful Spring Build a QuickPoll application example Document REST services as well as versioning paging and sorting Test handle errors and secure your application     Enterprise Java Microservices Kenneth Finnigan, 2018-09-27 Summary Enterprise Java Microservices is an example rich tutorial that shows how to design and manage large scale Java applications as a collection of microservices Purchase of the print book includes a free eBook in PDF Kindle and ePub formats from Manning Publications About the Technology Large applications are easier to develop and maintain when you build them from small simple components Java developers now enjoy a wide range of tools that support microservices application development including right sized app servers open source frameworks and well defined patterns Best of all you can build microservices applications using your existing Java skills About the Book Enterprise Java Microservices teaches you to design and build JVM based microservices applications You ll start by learning how microservices designs compare to traditional Java EE applications Always practical author Ken Finnigan introduces big picture concepts along with the tools and techniques you ll need to implement them You ll discover ecosystem components like Netflix Hystrix for fault tolerance and master the Just enough Application Server JeAS approach To ensure smooth operations you ll also examine monitoring security testing and deploying to the cloud What s inside The microservices mental model Cloud native development Strategies for fault tolerance and monitoring Securing your finished applications About the Reader This book is for Java developers familiar with Java EE About the Author Ken Finnigan leads the Thorntail project at Red Hat which seeks to make developing microservices for the cloud with Java and Java EE as easy as possible Table of Contents PART 1 MICROSERVICES BASICS Enterprise Java microservices Developing a simple RESTful microservice Just enough Application Server for microservices Microservices testing Cloud native development PART 2 IMPLEMENTING ENTERPRISE JAVA MICROSERVICES Consuming microservices Discovering microservices for consumption Strategies for fault tolerance and monitoring Securing a microservice Architecting a microservice hybrid Data streaming with Apache Kafka     *Microservices Design Patterns with Java* Sergey

Seroukhov,2024-05-24 Java microservices The ultimate pattern guide KEY FEATURES Covers 70 Java microservices patterns in detail Practical code examples for immediate application Strategies from architecture to deployment explained DESCRIPTION Microservices a popular software architecture style breaks down applications into small independent services built with Java a versatile and widely used programming language This book serves as a roadmap for mastering design patterns that solve common problems encountered during microservices development in Java Start with microservices setup for team success Discover various architectural styles and communication approaches for seamless service interaction Learn effective data management within microservices Acquire skills for handling unforeseen scenarios in transactions and crafting secure APIs for user service access Lastly grasp crucial monitoring testing and deployment practices to identify and address issues ensuring smooth production deployment Microservices Design Patterns with Java positions itself as an indispensable tool in the arsenal of today s software professionals It not only aids in navigating the complexities of microservices architecture but also enhances the reader s ability to deliver robust high quality software solutions efficiently WHAT YOU WILL LEARN Architect scalable resilient microservices using Java based design patterns Implement efficient communication and data management strategies within microservices Design secure robust external APIs for microservices integration and interaction Monitor and maintain microservices with advanced logging tracing and health checks Deploy microservices with Docker Kubernetes and serverless platforms effectively Automate CI CD pipelines for microservices for streamlined development and deployment WHO THIS BOOK IS FOR This book is for seasoned microservices developers seeking to expand their repertoire of design patterns and practices as well as for newcomers looking for comprehensive guidance on patterns and practices throughout the entire development lifecycle It is tailored for architects developers team leads and DevOps engineers TABLE OF CONTENTS 1 Defining Product Vision and Organization Structure 2 Architecting Microservices Systems 3 Organizing and Documenting Code 4 Configuring Microservices 5 Implementing Communication 6 Working with Data 7 Handling Complex Business Transactions 8 Exposing External APIs 9 Monitoring Microservices 10 Packaging Microservices 11 Testing Microservices 12 Scripting Environments 13 Automating CI CD Pipelines 14 Assembling and Deploying Products **Microservices Deployment Cookbook** Vikram Murugesan,2017-01-31 Master over 60 recipes to help you deliver complete scalable microservice based solutions and see the improved business results immediately About This Book Adopt microservices based architecture and deploy it at scale Build your complete microservice architecture using different recipes for different solutions Identify specific tools for specific scenarios and deliver immediate business results correlate use cases and adopt them in your team and organization Who This Book Is For This book is for developers ops and DevOps professionals who would like to put microservices to work and improve products services and operations Those looking to build and deploy microservices will find this book useful as well as managers and people at CXO level looking to adopt microservices in their organization Prior knowledge of Java is expected No prior knowledge of microservices is

assumed What You Will Learn Build microservices using Spring Boot Wildfly Swarm Dropwizard and SparkJava Containerize your microservice using Docker Deploy microservices using Mesos Marathon and Kubernetes Implement service discovery and load balancing using Zookeeper Consul and Nginx Monitor microservices using Graphite and Grafana Write stream programs with Kafka Streams and Spark Aggregate and manage logs using Kafka Get introduced to DC OS Docker Swarm and YARN In Detail This book will help any team or organization understand deploy and manage microservices at scale It is driven by a sample application helping you gradually build a complete microservice based ecosystem Rather than just focusing on writing a microservice this book addresses various other microservice related solutions deployments clustering load balancing logging streaming and monitoring The initial chapters offer insights into how web and enterprise apps can be migrated to scalable microservices Moving on you ll see how to Dockerize your application so that it is ready to be shipped and deployed We will look at how to deploy microservices on Mesos and Marathon and will also deploy microservices on Kubernetes Next you will implement service discovery and load balancing for your microservices We ll also show you how to build asynchronous streaming systems using Kafka Streams and Apache Spark Finally we wind up by aggregating your logs in Kafka creating your own metrics and monitoring the metrics for the microservice Style and approach This book follows a recipe driven approach and shows you how to plug and play with all the various pieces putting them together to build a complete scalable microservice ecosystem You do not need to study the chapters in order as you can directly refer to the content you need for your situation

**Microservices with Spring Boot and Spring Cloud** Magnus Larsson, 2021-07-29 A step by step guide to creating and deploying production quality microservices based applications Key Features Build cloud native production ready microservices with this comprehensively updated guide Understand the challenges of building large scale microservice architectures Learn how to get the best out of Spring Cloud Kubernetes and Istio in combination Book Description With this book you ll learn how to efficiently build and deploy microservices This new edition has been updated for the most recent versions of Spring Java Kubernetes and Istio demonstrating faster and simpler handling of Spring Boot local Kubernetes clusters and Istio installation The expanded scope includes native compilation of Spring based microservices support for Mac and Windows with WSL2 and an introduction to Helm 3 for packaging and deployment A revamped security chapter now follows the OAuth 2.1 specification and makes use of the newly launched Spring Authorization Server from the Spring team Starting with a set of simple cooperating microservices you ll add persistence and resilience make your microservices reactive and document their APIs using OpenAPI You ll understand how fundamental design patterns are applied to add important functionality such as service discovery with Netflix Eureka and edge servers with Spring Cloud Gateway You ll learn how to deploy your microservices using Kubernetes and adopt Istio You ll explore centralized log management using the Elasticsearch Fluentd and Kibana EFK stack and monitor microservices using Prometheus and Grafana By the end of this book you ll be confident in building microservices that are scalable and robust

using Spring Boot and Spring Cloud What you will learn Build reactive microservices using Spring Boot Develop resilient and scalable microservices using Spring Cloud Use OAuth 2.1 OIDC and Spring Security to protect public APIs Implement Docker to bridge the gap between development testing and production Deploy and manage microservices with Kubernetes Apply Istio for improved security observability and traffic management Write and run automated microservice tests with JUnit testcontainers Gradle and bash Who this book is for If you are a Java or Spring Boot developer who wants to learn how to build microservice landscapes from scratch this book is for you No familiarity with microservices architecture is required

### **Start Building Restful Microservices Using Akka HTTP with Scala: A Quick Start Guide to Building**

**Microservices Using Akka HTTP with Scala in a One-Wee** Ayush Kumar Mishra, 2017-12-31 Book Description This book is a part of Knoldus Reactive Programming Series Few years ago applications were much simpler and required all solutions at one place we call them monolithic applications Now a days markets are changing rapidly You either adapt quickly or you go out of business If your application is successful you will start enhancing features day by day and as a result your application becomes complex day by day and that complexity creates challenges in development It will be difficult to fully understand and made changes fast and correctly You must redeploy the entire application on each update These type of application also has a barrier to adopting new technologies because it will affect the entire application In this book you will learn how you can manage this problem by dividing project into smaller pieces You will learn how quickly you can start transforming your monolithic application into microservices Microservice can be developed using different programming language Personally I don't suggest to do it I prefer Akka HTTP because it is fully integrated into Typesafe stack Since there are already a lot of scala frameworks to build REST APIs then the obvious question is Why Akka HTTP There are many reasons to use Akka HTTP which you will learn in this book I have written this book for those who want to start developing REST API right away and have a basic understanding of Scala I don't exhaustively list all feature of Akka HTTP I don't make you suffer through long and contrived example I have tried to explain every topic of this book with short and easy to understand examples with test cases Akka HTTP is available for both Java and Scala but in this book we will go with Scala I choose Scala because it cuts down on boilerplate and we can concentrate on the logic of our problems In Scala you are not limited to just object oriented patterns to implement your code you can bring in functional paradigms as well What You'll Learn Advantage of using Microservices architecture over monolithic Introduction to Akka HTTP Start coding in Akka HTTP Powerful JSON unmarshalling support How to build server side API How to build client side API WebSocket support using Akka HTTP By the end of the book you will get the links of multiple sample projects of Akka HTTP For ex Akka HTTP with SOLRAkka HTTP with SlickAkka HTTP with Neo4J You will also get templates with frameworks like Angular js Spark Et al You can clone these sample projects according to your requirement and start playing with restful web services Who This Book Is For Those who want to start working on microservices architecture right away The only pre requisite to this book is

that you are comfortable with Scala However language is not a bar even if you want to develop java microservices using Akka HTTP you can still read this book to understand the concept I have used the latest version of Akka HTTP in this book About The Author Ayush Kumar Mishra is a Lead Scala Consultant based in Singapore He is currently working with Knoldus an organization where knowledge sharing and upskilling each Knolder is a way of life which is the only organization to be partners with Lightbend Databricks Confluent and Datastax to deliver high quality reactive products to its global clients He has been working in Scala for more than 5 years He loves to troubleshoot complex problems and look for the best solutions In his career he has successfully developed and delivered various microservice based systems with Scala and Akka HTTP When he is not programming he writes technical blogs Most of his blogs are related to rest api design He has also transformed some monolithic systems into microservice based system

**Microservices from Theory to Practice: Creating Applications in IBM Bluemix Using the Microservices Approach** Shahir Daya, Nguyen Van Duy, Kameswara Eati, Carlos M Ferreira, Dejan Glozic, Vasfi Gucer, Manav Gupta, Sunil Joshi, Valerie Lampkin, Marcelo Martins, Shishir Narain, Ramratan Vennam, IBM Redbooks, 2016-04-04 Microservices is an architectural style in which large complex software applications are composed of one or more smaller services Each of these microservices focuses on completing one task that represents a small business capability These microservices can be developed in any programming language They communicate with each other using language neutral protocols such as Representational State Transfer REST or messaging applications such as IBM MQ Light This IBM Redbooks publication gives a broad understanding of this increasingly popular architectural style and provides some real life examples of how you can develop applications using the microservices approach with IBM Bluemix™ The source code for all of these sample scenarios can be found on GitHub <https://github.com> The book also presents some case studies from IBM products We explain the architectural decisions made our experiences and lessons learned when redesigning these products using the microservices approach Information technology IT professionals interested in learning about microservices and how to develop or redesign an application in Bluemix using microservices can benefit from this book

*Spring Microservices in Action* John Carnell, Kalpit Patel, 2017-06-11 Summary Spring Microservices in Action teaches you how to build microservice based applications using Java and the Spring platform Purchase of the print book includes a free eBook in PDF Kindle and ePub formats from Manning Publications About the technology Microservices break up your code into small distributed and independent services that require careful forethought and design Fortunately Spring Boot and Spring Cloud simplify your microservice applications just as the Spring Framework simplifies enterprise Java development Spring Boot removes the boilerplate code involved with writing a REST based service Spring Cloud provides a suite of tools for the discovery routing and deployment of microservices to the enterprise and the cloud About the Book Spring Microservices in Action teaches you how to build microservice based applications using Java and the Spring platform You ll learn to do microservice design as you build and deploy your first Spring Cloud application Throughout the book

carefully selected real life examples expose microservice based patterns for configuring routing scaling and deploying your services You ll see how Spring s intuitive tooling can help augment and refactor existing applications with micro services What s Inside Core microservice design principles Managing configuration with Spring Cloud Config Client side resiliency with Spring Hystrix and Ribbon Intelligent routing using Netflix Zuul Deploying Spring Cloud applications About the Reader This book is written for developers with Java and Spring experience About the Author John Carnell is a senior cloud engineer with twenty years of experience in Java Table of contents Welcome to the cloud Spring Building microservices with Spring Boot Controlling your configuration with Spring Cloud configuration server On service discovery When bad things happen client resiliency patterns with Spring Cloud and Netflix Hystrix Service routing with Spring Cloud and Zuul Securing your microservices Event driven architecture with Spring Cloud Stream Distributed tracing with Spring Cloud Sleuth and Zipkin Deploying your microservices

**Spring Microservices** Rajesh RV,2016-06-28 Build scalable microservices with Spring Docker and Mesos About This Book Learn how to efficiently build and implement microservices in Spring and how to use Docker and Mesos to push the boundaries of what you thought possible Examine a number of real world use cases and hands on code examples Distribute your microservices in a completely new way Who This Book Is For If you are a Spring developers and want to build cloud ready internet scale applications to meet modern business demands then this book is for you Developers will understand how to build simple Restful services and organically grow them to truly enterprise grade microservices ecosystems What You Will Learn Get to know the microservices development lifecycle process See how to implement microservices governance Familiarize yourself with the microservices architecture and its benefits Use Spring Boot to develop microservices Find out how to avoid common pitfalls when developing microservices Be introduced to end to end microservices written in Spring Framework and Spring Boot In Detail The Spring Framework is an application framework and inversion of the control container for the Java platform The framework s core features can be used by any Java application but there are extensions to build web applications on top of the Java EE platform This book will help you implement the microservice architecture in Spring Framework Spring Boot and Spring Cloud Written to the latest specifications of Spring you ll be able to build modern Internet scale Java applications in no time We would start off with the guidelines to implement responsive microservices at scale We will then deep dive into Spring Boot Spring Cloud Docker Mesos and Marathon Next you will understand how Spring Boot is used to deploy autonomous services server less by removing the need to have a heavy weight application server Later you will learn how to go further by deploying your microservices to Docker and manage it with Mesos By the end of the book you ll will gain more clarity on how to implement microservices using Spring Framework and use them in Internet scale deployments through real world examples Style and approach The book follows a step by step approach on how to develop microservices using Spring Framework Spring Boot and a set of Spring Cloud components that will help you scale your applications

**Spring Microservices in Action, Second**



Edition John Carnell, Illary Huaylupo Sánchez, 2021-06-29 Spring Microservices in Action Second Edition teaches you to build microservice based applications using Java and Spring Summary By dividing large applications into separate self contained units Microservices are a great step toward reducing complexity and increasing flexibility Spring Microservices in Action Second Edition teaches you how to build microservice based applications using Java and the Spring platform This second edition is fully updated for the latest version of Spring with expanded coverage of API routing with Spring Cloud Gateway logging with the ELK stack metrics with Prometheus and Grafana security with the Hashicorp Vault and modern deployment practices with Kubernetes and Istio Purchase of the print book includes a free eBook in PDF Kindle and ePub formats from Manning Publications About the technology Building and deploying microservices can be easy in Spring Libraries like Spring Boot Spring Cloud and Spring Cloud Gateway reduce the boilerplate code in REST based services They provide an effective toolbox to get your microservices up and running on both public and private clouds About the book Spring Microservices in Action Second Edition teaches you to build microservice based applications using Java and Spring You ll start by creating basic services then move to efficient logging and monitoring Learn to refactor Java applications with Spring s intuitive tooling and master API management with Spring Cloud Gateway You ll even deploy Spring Cloud applications with AWS and Kubernetes What s inside Microservice design principles and best practices Configuration with Spring Cloud Config and Hashicorp Vault Client side resiliency with Resilience4j and Spring Cloud Load Balancer Metrics monitoring with Prometheus and Grafana Distributed tracing with Spring Cloud Sleuth Zipkin and ELK Stack About the reader For experienced Java and Spring developers About the author John Carnell is a senior cloud engineer with 20 years of Java experience Illary Huaylupo S nchez is a software engineer with over 13 years of experience Table of Contents 1 Welcome to the cloud Spring 2 Exploring the microservices world with Spring Cloud 3 Building microservices with Spring Boot 4 Welcome to Docker 5 Controlling your configuration with the Spring Cloud Configuration Server 6 On service discovery 7 When bad things happen Resiliency patterns with Spring Cloud and Resilience4j 8 Service routing with Spring Cloud Gateway 9 Securing your microservices 10 Event driven architecture with Spring Cloud Stream 11 Distributed tracing with Spring Cloud Sleuth and Zipkin 12 Deploying your microservices

*A Journey Towards Bio-inspired Techniques in Software Engineering* Jagannath Singh, Saurabh Bilgaiyan, Bhabani Shankar Prasad Mishra, Satchidananda Dehuri, 2020-03-11 This book covers a range of basic and advanced topics in software engineering The field has undergone several phases of change and improvement since its invention and there is significant ongoing research in software development addressing aspects such as analysis design testing and maintenance Rather than focusing on a single aspect of software engineering this book provides a systematic overview of recent techniques including requirement gathering in the form of story points in agile software and bio inspired techniques for estimating the effort cost and time required for software development As such it is a valuable resource for new researchers interested in advances in software engineering particularly in the area of bio inspired techniques Pro

RESTful APIs with Micronaut Sanjay Patni,2023 Discover the RESTful technologies including REST JSON XML JAX RS web services SOAP and more for building today s Java based microservices big data applications and web service applications using the Micronaut framework This book is based on a course the Oracle based author is teaching for UC Santa Cruz Silicon Valley which covers architecture design best practices and coding labs Pro RESTful APIs with Micronaut Second Edition gives you all the fundamentals from the top down from the top architecture through the middle design to the bottom coding This book is a must have for any microservices or web services application programmer or developer building applications and services for today s enterprises After reading and using this book you ll be competent in using Micronaut and RESTful APIs for building today s microservices Source code for the examples and case studies are free and available on Apress GitHub page for this book What You ll Learn Discover the key RESTful APIs including REST JSON XML JAX SOAP and more Explore the Micronaut framework Use these for microservices for today s modern web services and data exchanges Harness Java XML JSON REST and JAX RS in examples and case studies Apply best practices to your solutions architecture and more

*Hands-On RESTful API Design Patterns and Best Practices* Harihara Subramanian,Pethuru Raj,2019-01-31 Build effective RESTful APIs for enterprise with design patterns and REST framework s out of the box capabilities Key FeaturesUnderstand advanced topics such as API gateways API securities and cloudImplement patterns programmatically with easy to follow examplesModernize legacy codebase using API connectors layers and microservicesBook Description This book deals with the Representational State Transfer REST paradigm which is an architectural style that allows networked devices to communicate with each other over the internet With the help of this book you ll explore the concepts of service oriented architecture SOA event driven architecture EDA and resource oriented architecture ROA This book covers why there is an insistence for high quality APIs toward enterprise integration It also covers how to optimize and explore endpoints for microservices with API gateways and touches upon integrated platforms and Hubs for RESTful APIs You ll also understand how application delivery and deployments can be simplified and streamlined in the REST world The book will help you dig deeper into the distinct contributions of RESTful services for IoT analytics and applications Besides detailing the API design and development aspects this book will assist you in designing and developing production ready testable sustainable and enterprise grade APIs By the end of the book you ll be empowered with all that you need to create highly flexible APIs for next generation RESTful services and applications What you will learnExplore RESTful concepts including URI HATEOAS and Code on DemandStudy core patterns like Statelessness Pagination and DiscoverabilityOptimize endpoints for linked microservices with API gatewaysDelve into API authentication authorization and API security implementationsWork with Service Orchestration to craft composite and process aware servicesExpose RESTful protocol based APIs for cloud computingWho this book is for This book is primarily for web mobile and cloud services developers architects and consultants who want to build well designed APIs for creating and sustaining enterprise class applications You ll also benefit

from this book if you want to understand the finer details of RESTful APIs and their design techniques along with some tricks and tips

**Learn Microservices with Spring Boot** Moises Macero, 2017-12-08 Build a microservices architecture with Spring Boot by evolving an application from a small monolith to an event driven architecture composed of several services This book follows an incremental approach to teach microservice structure test driven development Eureka Ribbon Zuul and end to end tests with Cucumber Author Moises Macero follows a very pragmatic approach to explain the benefits of using this type of software architecture instead of keeping you distracted with theoretical concepts He covers some of the state of the art techniques in computer programming from a practical point of view You ll focus on what s important starting with the minimum viable product but keeping the flexibility to evolve it What You ll Learn Build microservices with Spring Boot Use event driven architecture and messaging with RabbitMQ Create RESTful services with Spring Master service discovery with Eureka and load balancing with Ribbon Route requests with Zuul as your API gateway Write end to end tests for an event driven architecture using Cucumber Carry out continuous integration and deployment Who This Book Is For Those with at least some prior experience with Java programming Some prior exposure to Spring Boot recommended but not required

*Hands-on Application Development using Spring Boot* Shagun Bakliwal, 2021-10-30 A pragmatic guide for Java developers to help build Microservices and Cloud Apps using Spring Boot

**KEY FEATURES** Develops microservices from start to finish using the Spring Boot Framework Creates cloud native applications using Spring Boot s production ready features Covers the API gateway unit testing cloud deployments and managing high traffic applications

**DESCRIPTION** Spring is an excellent framework for developing both web and cloud native applications This book on application development using Spring Boot simplifies the process of writing boilerplate code for complex software It allows developers to concentrate on the application s concept rather than on the internal Java configuration This book will guide you on how to make the best use of the strength that Spring Boot provides You ll gain an understanding of how Spring Boot configuration works in conjunction with application development including auto configuration and overriding default configurations You will learn to develop scalable dependable microservices to accelerate the development lifecycle of a cloud based application Each chapter will walk you through the features of Spring Boot as a Software Development Framework such as performing Create Read Update and Delete CRUD operations on a database and securing web services with appropriate logging By the end of this book you will develop test and deploy applications ready for production and how to establish them as cloud based applications The readers will also gain the expertise of writing unit and integration test cases

**WHAT YOU WILL LEARN** Get to know Spring Boot and all its capabilities Build start to end production ready applications Explore the API Gateway and practice how to run request routing Learn API doc tools like Swagger and host your apps on Cloud Practice how to balance the application s load when the system is under high traffic Learn to write unit tests and integration tests for bug free coding

**WHO THIS BOOK IS FOR** This book is for Java developers who want to quickly develop test and deploy production ready applications This book will

also appeal to cloud native application developers and cloud engineers No prior Spring Boot knowledge is required as the basics are covered in the book

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**Building RESTful Web Services with Java EE 8** Mario-Leander Reimer, 2018-07-31 Learn the fundamentals of Java EE 8 APIs to build effective web services

**Key Features**

- Design modern and stylish web services with Java EE APIs
- Secure your web services with JSON Web Tokens
- Explore the advanced concepts of RESTful web services and the JAX RS API

**Book Description**

Java Enterprise Edition is one of the leading application programming platforms for enterprise Java development With Java EE 8 finally released and the first application servers now available it is time to take a closer look at how to develop modern and lightweight web services with the latest API additions and improvements

**Building RESTful Web Services with Java EE 8** is a comprehensive guide that will show you how to develop state of the art RESTful web services with the latest Java EE 8 APIs You will begin with an overview of Java EE 8 and the latest API additions and improvements You will then delve into the details of implementing synchronous RESTful web services and clients with JAX RS Next up you will learn about the specifics of data binding and content marshalling using the JSON B 1.0 and JSON P 1.1 APIs This book also guides you in leveraging the power of asynchronous APIs on the server and client side and you will learn to use server sent events SSEs for push communication The final section covers advanced web service topics such as validation JWT security and diagnosability By the end of this book you will have implemented several working web services and have a thorough understanding of the Java EE 8 APIs required for lightweight web service development

**What you will learn**

- Dive into the latest Java EE 8 APIs relevant for developing web services
- Use the new JSON B APIs for easy data binding
- Understand how JSON P API can be used for flexible processing
- Implement synchronous and asynchronous JAX RS clients
- Use server sent events to implement server side code
- Secure Java EE 8 web services with JSON Web Tokens

**Who this book is for**

If you are a Java developer who wants to learn how to implement web services using the latest Java EE 8 APIs this book is for you Though no prior knowledge of Java EE 8 is required experience with a previous Java EE version will be beneficial

**Learn Microservices with Spring Boot 3** Moisés Macero García, 2021-01-12 Build Java based microservices architecture using the Spring Boot 3 framework by evolving an application from a small monolith to an event driven architecture composed of several services This revised book follows an incremental approach in teaching the structure of microservices test driven development Eureka Ribbon Zuul and end to end tests with Cucumber This updated book now covers what's been added to the new Spring Boot 3 release including support for the latest Java SE LTS changes to the Stream Editor UI Maven preemptive authentication building Docker images using cloud native build packs building layered

jars for optimized Docker images E2E traceability for configuration properties many dependency upgrades support for Spring Data Neumann and more Author Moises Macero uses a pragmatic approach to explain the benefits of using this type of software architecture instead of keeping you distracted with theoretical concepts He covers some of the state of the art techniques in computer programming from a practical point of view You ll focus on what s important starting with the minimum viable product but keeping the flexibility to evolve it What You Will Learn Build microservices with Spring Boot 3 Use event driven architecture and messaging with RabbitMQ Master service discovery with Eureka and load balancing with Ribbon Route requests with Zuul as your API gateway Write end to end tests for an event driven architecture using Cucumber Carry out continuous integration and deployment Who This Book Is For Those with at least some prior experience with Java programming Some prior exposure to Spring Boot recommended but not required **Spring Boot 3 API Mastery**

Vincenzo Racca,2025-02-24 DESCRIPTION This book is a complete guide to designing and implementing scalable secure and modern APIs in a microservices architecture Covering both synchronous communication via REST GraphQL and gRPC as well as asynchronous communication with Kafka it equips you with the tools to build efficient reliable and observable APIs Learn best practices for designing REST APIs including HTTP verb usage and the API first approach Explore Spring Boot technologies like WebFlux and virtual threads to build scalable REST APIs The book also demonstrates how to use Spring Cloud Stream for broker agnostic asynchronous communication to build robust event driven architectures To ensure observability you will implement logging monitoring and tracing with Grafana Prometheus and Tempo Security is key and the book covers OAuth2 and OpenID Connect using Spring Security and Keycloak for centralized authentication Finally discover how to deploy microservices with Docker and Kubernetes mastering containerization and orchestration KEY FEATURES Design scalable and observable APIs for cloud native microservices Master REST GraphQL gRPC and event driven API best practices Secure APIs with OAuth2 OpenID Connect and Spring Security WHAT YOU WILL LEARN Design scalable secure REST APIs with Spring Boot WebFlux and virtual threads Implement GraphQL and gRPC for modern APIs Master asynchronous communication with Kafka and Spring Cloud Stream Achieve observability with logging metrics and distributed tracing Deploy microservices on Docker and Kubernetes with ease WHO THIS BOOK IS FOR This book is for software developers and architects aiming to design scalable secure and modern APIs in a microservices architecture Prior knowledge of Java and Spring Framework is recommended TABLE OF CONTENTS 1 Introduction to REST Architecture and API first Approach 2 Reactive REST APIs with Spring WebFlux 3 Easily Scalable APIs with Virtual Threads 4 GraphQL with Spring Boot 5 Designing APIs with gRPC 6 Asynchronous APIs with Spring Cloud Stream and Apache Kafka 7 Centralized Security with Spring Cloud Gateway 8 Observability and Monitoring 9 Deploying Applications on Kubernetes with Kind

**Start Building RESTful Microservices Using Lagom with Java** Jasmine Kaur,Ayush Kumar Mishra,2018-07-26 Book Description This book is a part of Knoldus Reactive Programming Series Today most of the big successful applications are

moving to microservices architecture There have been lot of buzz around the word Microservices in the past few years But just because something is buzzy doesn t mean we should start following it It is really important to think about how you can get the hype to work in your application Few years ago applications were much simpler and required all solutions at one place we call them monolithic applications Now a days markets are changing rapidly You either adapt quickly or you go out of business If your application is successful it will eventually grow and become huge with the frequent addition of new codes thus overloading the IDE and reducing the developer s productivity Any minor malfunctioning in a single component can affect the entire application These type of applications also have a barrier in adopting the new technologies because it will affect the entire application In this book you will learn how easily and effectively you can transform monolithic applications into microservices The microservices architectural style is an approach to developing a single application as a suite of small services These services are built around business capabilities and are independently deployable by fully automated deployment machinery The advantages of Microservices over the monstrous monolithic system have convinced some of the major enterprises like Netflix Amazon and eBay Microservices can be developed using different programming languages There are many frameworks available to build microservices but they are good at helping you building the first one and you are left alone with all the others Lagom extends that to systems of microservices and thus building a larger system There are many other reasons to use Lagom which you will learn in this book We have written this book for those who want to start developing REST API right away and have a basic understanding of Java We don t exhaustively list all the features of Lagom We don t make you suffer through long and contrived example We have tried to explain every topic of this book with short and easy to understand examples along with the test cases Lagom is available for both Java and Scala but in this book we will go with Java We choose Java because it is the platform independence Programs can run on several different types of computer as long as the computer has a Java Runtime Environment JRE installed a Java program can run on it If you want to go with Scala you can refer my another book Start Building RESTful Microservices using Lagom By the end of this book you will be able to migrate a monolithic application to microservices based application What You ll Learn Advantage of using Microservices architecture over monolithic Introduction to Lagom Start building services in Lagom CQRS and Event Sourcing with Lagom Circuit Breakers Error Handling in Lagom Testing in Lagom By the end of the book you will get the links of multiple sample projects of Lagom created by Knoldus Inc For ex Lagom with ScalaLagom with JavaLagom with KafkaLagom StreamingYou can clone these sample projects according to your requirement and start building restful web services You will also get a link of video tutorials Who This Book Is ForThose who want to start working on microservices architecture right away The only prerequisite to this book is that you are comfortable with Java However language is not a barrier even if you want to develop scala microservices using Lagom you can still refer this book to understand the concept We have used the latest version of Lagom in this book      [Full Stack Development with JHipster](#) Deepu K. Sasidharan,Sendil

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## Embracing the Track of Expression: An Psychological Symphony within **Restful Microservices Java**

In a world used by displays and the ceaseless chatter of immediate communication, the melodic splendor and psychological symphony developed by the prepared term often fade into the backdrop, eclipsed by the persistent sound and disturbances that permeate our lives. However, nestled within the pages of **Restful Microservices Java** a charming fictional treasure brimming with fresh feelings, lies an immersive symphony waiting to be embraced. Crafted by an outstanding musician of language, this fascinating masterpiece conducts readers on a psychological journey, well unraveling the hidden songs and profound influence resonating within each carefully crafted phrase. Within the depths of the poignant examination, we will investigate the book is main harmonies, analyze its enthralling publishing fashion, and surrender ourselves to the profound resonance that echoes in the depths of readers souls.

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