Spring Microservices In Action

Microservices in ActionGo Microservices in ActionSpring Microservices in ActionSpring Microservices in Action, Second EditionMicroservices in ActionMicroservices Security in ActionMicroservices Security in ActionSpring Start HereData Mesh in ActionMicroservices Security in ActionA Verification Framework for a Rule-oriented Data Grid Management SystemElixir in Action, Third EditionMicroservices PatternsIstio in ActionBootstrapping Microservices, Second EditionMicroservices Development CookbookSimple Object-Oriented DesignHow to Accelerate Microservices Development: A Practical Guide to Applying Code GenerationDeveloping Open Cloud Native MicroservicesFull Stack Development with JHipster Morgan Bruce Greyson Chesterfield John Carnell John Carnell Angelina Gilbert Wajjakkara Dias Prabath Siriwardena Laurentiu Spilca Jacek Majchrzak 刘 超 理查德 Richard Shuo Liu Saša Juric Chris Richardson Christian E. Posta Ashley Davis Paul Osman Mauricio Aniche Ivan Kashuba Graham Charters Deepu K. Sasidharan Microservices in Action Go Microservices in Action Spring Microservices in Action Spring Microservices in Action, Second Edition Microservices in Action Microservices Security in Action Microservices Security in Action Spring Start Here Data Mesh in Action Microservices Security in Action A Verification Framework for a Rule-oriented Data Grid Management System Elixir in Action, Third Edition Microservices Patterns Istio in Action Bootstrapping Microservices, Second Edition Microservices Development Cookbook Simple Object-Oriented Design How to Accelerate Microservices Development: A Practical Guide to Applying Code Generation Developing Open Cloud Native Microservices Full Stack Development with JHipster Morgan Bruce Greyson Chesterfield John Carnell John Carnell Angelina Gilbert Wajjakkara Dias Prabath Siriwardena Laurentiu Spilca Jacek Majchrzak 刘 超 理查德 Richard Shuo Liu Saša Juric Chris Richardson Christian E. Posta Ashley Davis Paul Osman Mauricio Aniche Ivan Kashuba Graham Charters Deepu K. Sasidharan

the one and only book on implementing microservices with a real world cover to cover example you can relate to christian bach swiss re microservices in action is a practical book about building and deploying microservice based applications written for developers and architects with a solid grasp of service oriented development it tackles the challenge of putting microservices into production purchase of the print book includes a free ebook in pdf kindle and epub formats from manning publications about the technology invest your time in designing great applications improving infrastructure and making the most out of your dev teams microservices are easier to write scale and maintain than traditional enterprise applications because they re built as a system of independent components master a few important new patterns and processes and you ll be ready to develop deploy and run production quality microservices about the book microservices in action teaches you how to write and maintain microservice based applications created with day to day development in mind this informative guide immerses you in real world use cases from design to deployment you ll discover how microservices enable an efficient continuous delivery pipeline and explore examples using kubernetes docker and google container engine what s inside an overview of microservice architecture building a delivery pipeline best practices for designing multi service transactions and queries deploying with containers monitoring your microservices about the reader written for intermediate developers familiar with enterprise architecture and cloud platforms like aws and gcp about the author morgan bruce and paulo a pereira are experienced engineering leaders they work daily with microservices in a production environment using the techniques detailed in this book table of contents designing and running microservices microservices at simplebank architecture of a microservice application designing new features transactions and queries in microservices designing reliable services building a reusable microservice framework deploying microservices deployment with containers and schedulers building a delivery pipeline for microservices building a monitoring system using logs and traces to understand behavior building microservice teams part 1 the lay of the land part 2 design part 3 deployment part 4 observability and ownership

unlock the power of go to build high performance scalable microservices designed for today s cloud native world go microservices in action is your hands on guide to designing developing and deploying lightweight resilient apis that thrive in modern distributed environments through real world examples this book takes you from foundational microservices principles to advanced go based implementations you ll learn to create restful apis implement service discovery containerize with docker orchestrate with kubernetes and secure microservices using industry best practices dive into practical patterns like circuit breakers retries and api gateways to build robust systems that handle failure gracefully whether you re transitioning from monoliths or starting greenfield projects this book empowers you to write clean efficient and production ready go microservices that scale effortlessly in the cloud cloud native api development go powered microservices architecture containerization and kubernetes deployment security observability and resilience patterns real world code examples and best practices if you re ready to master go for microservices and lead the way in cloud native development this is the book for you

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 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 sánchez 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 simplified rundown of one of the most revolutionary concepts in software architecture microservices in action architecting modular systems is a special report designed to break down the complexity of microservices architecture into comprehensible content that even a novice in the technical field can understand explore this transformative trend in software development from the viewpoint of an expert angelina gilbert who guides you through the ins and outs of microservices demonstrates how to modularize systems effectively and showcases ways to improve scalability and streamline service continuity this report is not just for tech professionals no matter your occupation or level of technical understanding this comprehensive guide will benefit those looking to gain a grasp on how software systems are developed deployed and maintained in our evolving digital world with real life cases and expert commentary you ll be able to demystify the technical jargon while acquiring practical insights into the attractive and adaptable world of microservices don t miss this opportunity to understand the significant role microservices play in the modern software landscape microservices in action architecting modular systems is your ultimate guide to reshaping your understanding of software architecture

microservices security in action is filled with solutions teaching best practices for throttling and monitoring access control and microservice to microservice communications detailed code samples exercises and real world use cases help you put what you ve learned into production along the way authors and software security experts prabath siriwardena and nuwan dias shine a light on important concepts like throttling analytics gathering access control at the api gateway and microservice to microservice communication you ll also discover how to securely deploy microservices using state of the art technologies including kubernetes docker and the istio service mesh lots of hands on exercises secure your learning as you go and this straightforward guide wraps up with a security process review and best practices when you re finished reading you ll be planning designing and implementing microservices applications with the priceless confidence that comes with knowing they re secure

a complete guide to the challenges and solutions in securing microservices architectures massimo siani findynamic key features secure microservices infrastructure and code monitoring access control and microservice to microservice communications deploy securely using kubernetes docker and the istio service mesh hands on examples and exercises using java and spring boot purchase of the print book includes a free ebook in pdf kindle and epub formats from manning publications microservices security in action teaches you how to address microservices specific security challenges throughout the system this practical guide includes plentiful hands on exercises using industry leading open source tools and examples using java and spring boot about the book design and implement security into your microservices from the start microservices security in action teaches you to assess and address security challenges at every level of a microservices application from apis to infrastructure you ll find effective solutions to common security problems including throttling and monitoring access control at the api gateway and microservice to microservice communication detailed java code samples exercises and real world business use cases ensure you can put what you ve learned into action immediately what you will learn microservice security concepts edge services with an api gateway deployments with docker

kubernetes and istio security testing at the code level communications with http grpc and kafka this book is written for for experienced microservices developers with intermediate java skills about the author prabath siriwardena is the vice president of security architecture at wso2 nuwan dias is the director of api architecture at wso2 they have designed secure systems for many fortune 500 companies table of contents part 1 overview 1 microservices security landscape 2 first steps in securing microservices part 2 edge security 3 securing north south traffic with an api gateway 4 accessing a secured microservice via a single page application 5 engaging throttling monitoring and access control part 3 service to service communications 6 securing east west traffic with certificates 7 securing east west traffic with jwt 8 securing east west traffic over grpc 9 securing reactive microservices part 4 secure deployment 10 conquering container security with docker 11 securing microservices on kubernetes 12 securing microservices with istio service mesh part 5 secure development 13 secure coding practices and automation

quickly master the massive spring ecosystem with this focused hands on guide that teaches you exactly what you need to know in spring start here you will learn how to build web applications with spring manage application objects with spring context implement data persistence using data sources and transactions implement data exchange between applications using rest services utilize spring boot s convention over configuration approach write unit and integration tests for apps implemented with spring minimize work when building any kind of app persisting data in a spring application using the latest approach spring start here introduces you to java development with spring by concentrating on the core concepts you ll use in every application you build you ll learn how to refactor an existing application to spring how to use spring tools to make sql database requests and rest calls and how to secure your projects with spring security there s always more to learn and this book will make your next steps much easier purchase of the print book includes a free ebook in pdf kindle and epub formats from manning publications about the technology for java developers spring is the must learn framework this incredible development tool powers everything from small business ecommerce applications

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revolutionize the way your organization approaches data with a data mesh this new decentralized architecture outpaces monolithic lakes and warehouses and can work for a company of any size in data mesh in action you will learn how to implement a data mesh in your organization turn data into a data product move from your current data architecture to a data mesh identify data domains and decompose an organization into smaller manageable domains set up the central governance and local governance levels over data balance responsibilities between the two levels of governance establish a platform that allows efficient connection of distributed data products and automated governance data mesh in action reveals how this groundbreaking architecture looks for both small startups and large enterprises you won t need any new technology this book shows you how to start implementing a data mesh with flexible processes and organizational

change you ll explore both an extended case study and multiple real world examples as you go you ll be expertly guided through discussions around socio technical architecture and domain driven design with the goal of building a sleek data as a product system plus dozens of workshop techniques for both in person and remote meetings help you onboard colleagues and drive a successful transition about the technology business increasingly relies on efficiently storing and accessing large volumes of data the data mesh is a new way to decentralize data management that radically improves security and discoverability a well designed data mesh simplifies self service data consumption and reduces the bottlenecks created by monolithic data architectures about the book data mesh in action teaches you pragmatic ways to decentralize your data and organize it into an effective data mesh you ll start by building a minimum viable data product which you ll expand into a self service data platform chapter by chapter you ll love the book s unique sliders that adjust the mesh to meet your specific needs you ll also learn processes and leadership techniques that will change the way you and your colleagues think about data what s inside decompose an organization into manageable domains turn data into a data product set up central and local governance levels build a fit for purpose data platform improve management initiation and support techniques about the reader for data professionals requires no specific programming stack or data platform about the author jacek majchrzak is a hands on lead data architect dr sven balnojan manages data products and teams dr marian siwiak is a data scientist and a management consultant for it scientific and technical projects table of contents part 1 foundations 1 the what and why of the data mesh 2 is a data mesh right for you 3 kickstart your data mesh mvp in a month part 2 the four principles in practice 4 domain ownership 5 data as a product 6 federated computational governance 7 the self serve data platform part 3 infrastructure and technical architecture 8 comparing self serve data platforms 9 solution architecture design

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a comprehensive overview of the challenges teams face when moving to microservices with industry tested solutions to these problems tim moore lightbend 44 reusable patterns to develop and deploy reliable production quality microservices based applications with worked examples in java key features 44 design patterns for building and deploying microservices applications drawing on decades of unique experience from author and microservice architecture pioneer chris richardson a pragmatic approach to the benefits and the drawbacks of microservices architecture solve service decomposition transaction management and inter service communication purchase of the print book includes a free ebook in pdf kindle and epub formats from manning publications about the book microservices patterns teaches you 44 reusable patterns to reliably develop and deploy production quality microservices based applications this invaluable set of design patterns builds on decades of distributed system experience adding new patterns for composing services into systems that scale and perform under real world conditions more than just a patterns catalog this practical guide with worked examples offers industry tested advice to help you design implement test and deploy your microservices based application what you will learn how and why to use microservices architecture service decomposition strategies transaction management and querying patterns effective testing strategies deployment patterns this book is written for written for enterprise developers familiar with standard enterprise application architecture examples are in java about the author chris richardson is a java champion a javaone rock star author of manning s pojos in action and creator of the original cloudfoundry com table of contents escaping monolithic hell decomposition strategies interprocess communication in a microservice architecture managing transactions with sagas designing business logic in a microservice architecture developing business logic with event sourcing implementing queries in a microservice architecture external api patterns testing microservices part 1 testing microservices part 2 developing production ready services deploying microservices refactoring to microservices

solve difficult service to service communication challenges around security observability routing and resilience with an istio based service mesh istio allows you

to define these traffic policies as configuration and enforce them consistently without needing any service code changes in istio in action you will learn why and when to use a service mesh envoy s role in istio s service mesh allowing north south traffic into a mesh fine grained traffic routing make your services robust to network failures gain observability over your system with telemetry golden signals how istio makes your services secure by default integrate cloud native applications with legacy workloads such as in vms reduce the operational complexity of your microservices with an istio powered service mesh istio in action shows you how to implement this powerful new architecture and move your application networking concerns to a dedicated infrastructure layer non functional concerns stay separate from your application so your code is easier to understand maintain and adapt regardless of programming language in this practical guide you ll go hands on with the full featured istio service mesh to manage microservices communication helpful diagrams example configuration and examples make it easy to understand how to control routing secure container applications and monitor network traffic foreword by eric brewer about the technology offload complex microservice communication layer challenges to istio the industry standard istio service mesh radically simplifies security routing observability and other service to service communication challenges with istio you use a straightforward declarative configuration style to establish application level network policies by separating communication from business logic your services are easier to write maintain and modify about the book istio in action teaches you how to implement an istio based service mesh that can handle complex routing scenarios traffic encryption authorization and other common network related tasks you ll start by defining a basic service mesh and exploring the data plane with istio s service proxy envoy then you ll dive into core topics like traffic routing and visualization and service to service authentication as you expand your service mesh to workloads on multiple clusters and legacy vms what s inside comprehensive coverage of istio resources practical examples to showcase service mesh capabilities implementation of multi cluster service meshes how to extend istio with webassembly traffic routing and observability vm integration into the mesh about the reader for developers architects and operations engineers about the author christian posta is a well

known architect speaker and contributor rinor maloku is an engineer at solo io working on application networking solutions toc part 1 understanding istio 1 introducing the istio service mesh 2 first steps with istio 3 istio s data plane the envoy proxy part 2 securing observing and controlling your service s network traffic 4 istio gateways getting traffic into a cluster 5 traffic control fine grained traffic routing 6 resilience solving application networking challenges 7 observability understanding the behavior of your services 8 observability visualizing network behavior with grafana jaeger and kiali 9 securing microservice communication part 3 istio day 2 operations 10 troubleshooting the data plane 11 performance tuning the control plane part 4 istio in your organization 12 scaling istio in your organization 13 incorporating virtual machine workloads into the mesh 14 extending istio on the request path

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and a host of tools like kubernetes terraform and github actions but where do you start with clear practical introductions to each concept and tool this book guides you hands on through designing and building your first microservices application about the book bootstrapping microservices second edition is your microservices mentor it teaches you to use industry standard tools to create a working video streaming application from the ground up you ll learn the pillars of cloud native development including terraform for configuration docker for packaging and a basic kubernetes deployment plus this second edition includes coverage of github actions continuous delivery and infrastructure as code what s inside deploying microservices to kubernetes automated testing and continuous delivery monitoring managing and troubleshooting about the reader examples are in javascript and node no experience with microservices required about the author ashley davis is a software craftsman entrepreneur and author with over 25 years of experience in software development from coding to managing teams to founding companies table of contents 1 why microservices 2 creating your first microservice 3 publishing your first microservice 4 data management for microservices 5 communication between microservices 6 the road to production 7 infrastructure as code 8 continuous deployment 9 automated testing for microservices 10 shipping flixtube 11 healthy microservices 12 pathways to scalability

quickly learn and employ practical methods for developing microservices key features get to grips with microservice architecture to build enterprise ready applications adopt the best practices to find solutions to specific problems monitor and manage your services in production book description microservices have become a popular way to build distributed systems that power modern web and mobile apps deploying your application as a suite of independently deployable modular and scalable services has many benefits in this book you ll learn to employ microservices in order to make your application more fault tolerant and easier to scale and change using an example driven approach microservice development cookbook introduces you to the microservice architectural style you ll learn how to transition from a traditional monolithic application to a suite of small services that interact to provide smooth functionality to your client applications you ll also learn

about the patterns used to organize services so you can optimize request handling and processing and see how to handle service to service interactions you ll then move on to understanding how to secure microservices and add monitoring in order to debug problems this book also covers fault tolerance and reliability patterns that help you use microservices to isolate failures in your applications by the end of the book you ll be able to work with a team to break a large monolithic codebase into independently deployable and scalable microservices you ll also study how to efficiently and effortlessly manage a microservice based architecture what you will learn learn how to design microservice based systems create services that fail without impacting users monitor your services to perform debugging and create observable systems manage the security of your services create fast and reliable deployment pipelines manage multiple environments for your services simplify the local development of microservice based systems who this book is for microservice development cookbook is for developers who would like to build effective and scalable microservices basic knowledge of the microservices architecture is assumed

write object oriented code that s manageable maintainable and future proof keeping your object oriented designs simple demands a creative approach and that s exactly what you ll find in simple object oriented design this book is full of patterns and principles for reducing complexity each one proven in author mauricio aniche s 20 year career in software development you ll learn how to tackle code s natural growth in complexity and adopt a good enough approach that means it s easy to refactor when requirements change you ll discover insightful principles for making code readable and documented improving consistency and encapsulation managing dependencies designing abstractions handling infrastructure effective modularization learn what constitutes both good and bad object oriented software design discover how to make better trade offs in design decisions and when to embrace complexity over simpler data structures with this book as your vital reference you ll be ready to write code that will last the test of time without slowing feature delivery to a crawl about the technology even a simple object oriented application can quickly become complex as it evolves each new class method or

feature means more state and abstractions to manage which in turn increases complexity maintenance and time spent detangling legacy code it takes effort and skill to keep your codebase simple this book shows you how about the book simple object oriented design create clean maintainable applications presents practical design principles you can use to keep an object oriented codebase simple as it grows and changes written as a collection of practical techniques you can apply in any oo language it offers tips for concise code managing dependencies and modules and designing flexible abstractions illuminating figures real world examples and insightful exercises make each principle stick what s inside writing simple understandable classes flexible abstractions to extend your designs reducing the impact of coupling about the reader readers should be familiar with an object oriented language like java c or python about the author maurício aniche is a software engineer with 20 years of experience he s also an assistant professor in software engineering at delft university of technology and the author of effective software testing table of contents 1 it s all about managing complexity 2 making code small 3 keeping objects consistent 4 managing dependencies 5 designing good abstractions 6 handling external dependencies and infrastructure 7 achieving modularization 8 being pragmatic

apriorit experts wrote this ebook to share their experience working with microservice architectures this guide shows you how to speed up microservices development using code generation tools and connect grpc based microservices to a graphql client

discover the world of full stack development with real world examples key features leverage the full power of the jhipster platform to build complex web applications create microservices from scratch and convert jhipster monolith apps into microservices build and deploy applications locally in docker and on various cloud platforms book description jhipster is a development platform to generate develop and deploy spring boot and angular react applications and spring microservices it provides you with a variety of tools that will help you quickly build modern web applications this book will be your guide to building full stack applications with spring and angular using the jhipster tool set you will begin by understanding what

jhipster is and the various tools and technologies associated with it you will learn the essentials of a full stack developer before getting hands on and building a monolithic web application with jhipster from here you will learn the jhipster domain language with entity modeling and entity creation using jdl and jdl studio moving on you will be introduced to client side technologies such as angular and bootstrap and will delve into technologies such as spring security spring mvc and spring data you will learn to build and package apps for production with various deployment options such as heroku and more during the course of the book you will be introduced to microservice server side technologies and how to break your monolithic application with a database of your choice next the book takes you through cloud deployment with microservices on docker and kubernetes going forward you will learn to build your client side with react and master jhipster best practices by the end of the book you will be able to leverage the power of the best tools available to build modern web applications what you will learn build business logic by creating and developing entity models us the jhipster domain language customize web applications with angular bootstrap and spring tests and continuous integration with jenkins utilize the jhipster microservice stack which includes netflix eureka spring cloud config hashicorp consul and so on understand advanced microservice concepts such as api rout load balancing rate limit circuit break centralized configuration server jwt authentication and more run microservices locally using docker and kubernetes in production who this book is for this book will appeal to developers who would like to build modern web applications quickly a basic knowledge of the spring ecosystem would be an added advantage

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