Building Microservices

Building Microservices with SpringMicroservices with Spring Boot and Spring CloudPractical Serverless and Microservices with C#Spring System Design in PracticeSolutions Architect's HandbookAWS for Solutions ArchitectsBuilding MicroservicesThe Tao of MicroservicesMicroservices in ActionFull Stack Development with JHipsterBuilding MicroservicesMicroservices in .NET CoreMonolith to MicroservicesEnterprise Java MicroservicesHow to Accelerate Microservices Development: A Practical Guide to Applying Code GenerationMicroservicesMicroservices in .NET, Second EditionBootstrapping Microservices with Docker, Kubernetes, and TerraformBuilding Microservices with Clojure and PedestalHands-On Microservices with JavaScript Dinesh Rajput Magnus Larsson Gabriel Baptista Rodrigo Santiago Saurabh Shrivastava Saurabh Shrivastava Sam Newman Richard Rodger Morgan Bruce Deepu K. Sasidharan Sam Newman Christian Horsdal Gammelgaard Sam Newman Kenneth Finnigan Ivan Kashuba Jake Knowles Christian Horsdal Gammelgaard Ashley Davis Scott Rehordn Tural Suleymani

learn and use the design patterns and best practices in spring to solve common design problems and build user friendly microservices key featuresstudy the benefits of using the right design pattern in your toolkitmanage your code easily with spring s dependency injection patternexplore the features of docker and mesos to build successful microservicesbook description getting started with spring microservices begins with an overview of the spring framework 5 0 its design patterns and its guidelines that enable you to implement responsive microservices at scale you will learn how to use gof patterns in application design you will understand the dependency injection pattern which is the main principle behind the decoupling process of the spring framework and makes it easier to manage your code then you will learn how to use proxy patterns in aspect oriented programming and remoting moving on you will understand the jdbc template patterns and their use in abstracting database access after understanding the basics you will move on to more advanced topics such as reactive streams and concurrency written to the latest specifications of spring that focuses on reactive programming the learning path teaches you how to build modern internet scale java applications in no time next you will understand how spring boot is used to deploying serverless autonomous services by removing the need to have a heavyweight application server you ll also explore ways to deploy your microservices to docker and managing them with mesos by the end of this learning path you will have the clarity and confidence for implementing microservices using spring framework this learning path includes content from the following packt products spring 5 microservices by rajesh r v spring 5 design patterns by dinesh rajputwhat you will learndevelop applications using dependency injection patternsbuild web applications using traditional spring mvc patternsutilize the reactive programming pattern to build reactive web appslearn concurrency and handle multiple connections inside a web serveruse spring boot and spring cloud to develop microservicesleverage reactive programming to build cloud native applicationswho this book is for getting started with spring microservices is ideal for spring developers who want to use design patterns to solve common design problems and build cloud ready internet scale applications and simple restful services

2025 edition create and deploy production grade microservices based applications with this edition fully updated to the latest versions of spring boot java and spring cloud key features build cloud native production ready microservices and stay ahead of the curve understand the challenges of building large scale microservice architectures learn how to get the best out of the latest

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descriptionfrom the authors of the software architecture with c and net series comes this practical and grounded showcase of microservices using the net stack written for net developers entering the world of modern cloud and distributed applications it shows you when microservices and serverless architectures are the right choice for building scalable enterprise solutions and when they re not you ll gain a realistic understanding of their use cases and limitations rather than promoting microservices as a one size fits all solution it encourages thoughtful adoption based on real world needs following a brief introduction and important setup the book helps you prepare for practical application through examples such as a ride sharing website you ll work with docker kubernetes azure container apps and the new net aspire with considerations for security observability and cost management the book culminates in a complete event driven application that brings together everything you ve covered by the end of this microservices book you ll have a well rounded understanding of cloud and distributed net through the lens of two industry veterans what you will learn set up serverless environments in azure for developing and debugging design reliable communication and computation across microservices explore azure functions in depth and use triggers for iot and background tasks use azure container apps to simplify the creation and management of containers apply best practices to secure a microservices application accurately assess and calculate costs and usage limits in serverless solutions who this book is for this book is for engineers and senior software developers looking to advance into modern cloud and distributed applications it helps professionals evolve their knowledge of microservices and serverless architecture to get the best of both architectural models prior experience with c net and the microsoft stack entity framework and asp net core is required to get the most out of this book if you ve enjoyed the authors previous software architecture with c and net series this new book offers an in depth exploration of select topics in those earlier works

transform raw requirements into scalable resilient web applications with spring and build secure high performance systems from the ground up using expert guidance and best practices key features establish yourself as the go to person for strategic decision making and solutions design with proven strategies write clean modular and testable code with the power of dependency injection optimize your development efforts by artfully connecting diverse use cases with the right spring components purchase of the print or kindle book includes a free pdf ebook book descriptionsoftware system design goes beyond just writing code it requires a

structured approach to translating real world requirements into scalable maintainable solutions with rodrigo santiago s hands on mentoring style and java spring expertise he makes system design accessible to developers at all levels spring system design in practice guides you through building robust software architectures with spring from breaking down complex business needs into actionable use cases to implementing services using spring boot this book equips you with the tools and best practices needed for developing secure high performance applications you ll explore inter service communication security and aspect oriented programming to streamline development covering microservices architecture the book demonstrates how to create self configuring resilient and event driven services that integrate seamlessly into the cloud through hands on experience you ll apply best practices to enhance reliability and scalability while tackling complex challenges such as state management resilience patterns concurrency issues and distributed transactions including bottlenecks related to asynchronous and reactive programming by the end of this book you ll have the confidence to analyze system requirements and design well structured scalable architectures what you will learn implement microservices for scalable resilient web systems break down business goals into well structured product requirements weigh tradeoffs between writing asynchronous vs synchronous services and sql vs nosql storage accelerate service development and reliability through the adoption of test driven development identify and eliminate hidden performance bottlenecks to maximize speed and efficiency achieve real time processing and responsiveness in distributed environments who this book is for if you re an entry level it professional with junior to mid level java and spring experience this pragmatic guide will fast track your journey to mastering the spring ecosystem designed to accelerate your career path toward becoming a senior software engineer system architect technical lead or aspiring cto it provides clear explanations of the spring ecosystem and its intricate patterns for experienced developers or architects this book offers essential insights and hands on knowledge to deepen your architectural skills and design resilient web systems

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this is an outdated edition and we have a new third edition live covering real world patterns genai strategies cost optimization techniques and certification aligned best practices key features comprehensive guide to automating networking migrating and adopting cloud technologies using aws extensive insights into aws technologies including ai ml iot big data blockchain and quantum

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annotation over the past 10 years distributed systems have become more fine grained from the large multi million line long monolithic applications we are now seeing the benefits of smaller self contained services rather than heavy weight hard to change service oriented architectures we are now seeing systems consisting of collaborating microservices easier to change deploy and if required retire organizations which are in the right position to take advantage of them are yielding significant benefits this book takes an holistic view of the things you need to be cognizant of in order to pull this off it covers just enough understanding of

technology architecture operations and organization to show you how to move towards finer grained systems

summary the tao of microservices guides you on the path to understanding how to apply microservice architectures to your own real world projects this high level book offers a conceptual view of microservice design along with core concepts and their application purchase of the print book includes a free ebook in pdf kindle and epub formats from manning publications about the technology an application even a complex one can be designed as a system of independent components each of which handles a single responsibility individual microservices are easy for small teams without extensive knowledge of the entire system design to build and maintain microservice applications rely on modern patterns like asynchronous message based communication and they can be optimized to work well in cloud and container centric environments about the book the tao of microservices guides you on the path to understanding and building microservices based on the invaluable experience of microservices guru richard rodger this book exposes the thinking behind microservice designs you ll master individual concepts like asynchronous messaging service apis and encapsulation as you learn to apply microservices architecture to real world projects along the way you ll dig deep into detailed case studies with source code and documentation and explore best practices for team development planning for change and tool choice what s inside principles of the microservice architecture breaking down real world case studies implementing large scale systems when not to use microservices about the reader this book is for developers and architects examples use javascript and node js about the author richard rodger ceo of voxgig a social network for the events industry has many years of experience building microservice based systems for major global companies table of contents part 1 building microservices brave new world services messages data deployment part 2 running microservices measurement migration people case study nodezoo com

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

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

distributed systems have become more fine grained as organizations shift from code heavy monolithic applications to smaller self contained microservices but developing these systems brings its own set of problems with lots of examples and practical advice this expanded second edition takes a holistic view of the topics system architects and administrators must consider when building managing and evolving microservices architectures author sam newman provides you with a firm grounding in the concepts while diving into the latest solutions for modeling integrating testing deploying and monitoring your own autonomous services through real world examples you ll learn how organizations worldwide are getting the most out of these architectures microservices technologies are moving quickly this book brings you up to speed get new information on user interfaces container orchestration and serverless use microservices to align system design with your organization s goals explore options for integrating a service with the rest of your system take an incremental approach when splitting monolithic codebases deploy individual microservices through continuous integration examine the complexities of testing and monitoring distributed services manage security with expanded content around user to service and service to service models understand the challenges of scaling microservices architectures

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how do you detangle a monolithic system and migrate it to a microservice architecture how do you do it while maintaining business as usual as a companion to sam newman s extremely popular building microservices this new book details a proven method for transitioning an existing monolithic system to a microservice architecture with many illustrative examples insightful migration patterns and a bevy of practical advice to transition your monolith enterprise into a microservice operation this practical guide

covers multiple scenarios and strategies for a successful migration from initial planning all the way through application and database decomposition you ll learn several tried and tested patterns and techniques that you can use as you migrate your existing architecture ideal for organizations looking to transition to microservices rather than rebuild helps companies determine whether to migrate when to migrate and where to begin addresses communication integration and the migration of legacy systems discusses multiple migration patterns and where they apply provides database migration examples along with synchronization strategies explores application decomposition including several architectural refactoring patterns delves into details of database decomposition including the impact of breaking referential and transactional integrity new failure modes and more

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architecting a microservice hybrid data streaming with apache kafka

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

microservices discover and manage microservices architecture this book is an exploration of microservices it begins by explaining what they are so as to help the reader better understand them after reading this book you will know how and where microservices are used the unique characteristics of microservices have been mentioned and then explored in detail this will help to give a deep understanding about how microservices function especially in a production environments the next part of the book is a guide on how to implement microservices you will learn how to use qbit and gradle for the purpose of developing them java pojo has also been explored so you will find out how to use it for development of microservices the use of spring boot for development of microservices has also been explored so you can use it for the same purpose the next chapter of this book explains the reasons many companies prefer to implement their software using a microservice architecture rather than the alternatives these reasons have been explained with no details left out the issue of security in microservices has also been discussed thoroughly on reading this book you will know how to use spring to enhance or implement the security of your microservice application there are certain factors that need to be considered when developing a microservice if these are not adhered to then the microservice will not function effectively these factors have been outlined in this book the following topics have been discussed in this book understanding microservices patterns and application implementation of microservices why microservices factors to consider while developing microservices building microservices download your copy of microservices by scrolling up and clicking buy now with 1 click button

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