

Spring Microservices In Action

Microservices in ActionSpring Microservices in ActionGo Microservices in ActionMicroservices Security in ActionSpring Microservices in Action, Second EditionMachine Learning in MicroservicesMicroservices in ActionSpring Start HereServerless Beyond the BuzzwordSoftware Engineering Aspects of Continuous Development and New Paradigms of Software Production and DeploymentSelf-Evolving Digital Twin Over Wireless NetworksComputational Science - ICCS 2008A Verification Framework for a Rule-oriented Data Grid Management SystemArchitecting APIs with HasuraKubernetes in Action, Second EditionMicroservices Security in ActionMicroservices Security in ActionCreating and Preserving Digital Records in Government, Science, and the ArtsSimple Object-Oriented DesignFull Stack Development with JHipster Morgan Bruce John Carnell Greyson Chesterfield Prabath Siriwardena John Carnell Mohamed Osam Abouahmed Angelina Gilbert Laurentiu Spilca Thomas Smart Jean-Michel Bruel Changyan Yi Marian Bubak Richard Shuo Liu Richard Johnson Marko Lukša Wajjakkara Kankanamge Anthony Nuwan Dias            US-InterPARES Project Mauricio Aniche Deepu K. Sasidharan

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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

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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

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

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

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

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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

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 to enterprise scale microservices mastering spring is a long journey taking your first step is easy start here about the book spring start here teaches java developers how to build applications using spring framework informative graphics relevant examples and author laurentiu spilca s clear and lively writing make it easy to pick up the skills you need you ll discover how to plan write and test applications and by concentrating on the most important features this no nonsense book gives you a firm foundation for exploring spring s rich ecosystem what s inside build web applications with spring minimize repetition and manual work persisting data in a spring application http and rest based web services testing your spring implementations about the reader for readers with

beginning to intermediate java skills about the author lauren iu spilca is a skilled java and spring developer and an experienced technology instructor

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this book describes how serverless and cloud native systems work their benefits and roles in automating and optimising organisations and the challenges to be considered anyone interested in serverless architecture will benefit from this book regardless of their level of technical understanding serverless beyond the buzzword explains many related terms such as microservices cloud native architecture several relevant aws services and how it all works together to produce cost effective scalable solutions in the cloud for the less technical decisionmaker an essential part of the book is that it helps you understand how serverless might affect finance security people and compliance it touches on important decisions such as selecting and working with external or internal specialists and teams finding them evaluating training and the flexibility and dynamics within digital projects deployment automation and devops also feature heavily in this book and towards the end of the book you can find some real use cases and examples of serverless architecture to get you started it s worth noting that this book is not a development guide it gives you a comprehensive understanding of what serverless is so you can make informed decisions for your organisation and projects

this book constitutes revised selected papers of the second international workshop on software engineering aspects of continuous development and new paradigms of software production and deployment devops 2019 held at the château de villebrumier france in may 2019 the 15 papers presented in this volume were carefully reviewed and selected from 19 submissions they cover a wide range of problems arising from devops and related approaches current tools rapid development deployment processes modeling frameworks anomaly detection in software releases devdataops microservices and related topics

this book focuses on the integration of self evolving digital twins dts with wireless networks exploring critical methodologies for dynamic twin construction and real time service interaction it addresses challenges posed by wireless environments which are paramount for maintaining high fidelity virtual replicas of physical systems the content provides a comprehensive outline for building and managing dts that can continuously adapt over wireless networks

the authors dedicated this book to innovative solutions for optimizing resource allocation and intelligent decision making it includes game theoretic online optimization for federated dt construction and generative artificial intelligence aided framework for quality of experience driven dt service interaction furthermore it shows the practical implementation of these technologies through detailed applications in intelligent vehicular networks this book is appropriate for advanced level students in computer science and electrical engineering who are studying wireless communications distributed systems internet of things and cyber physical systems researchers and industry practitioners seeking to leverage dts for innovation in smart manufacturing intelligent transportation and smart cities will find this book invaluable as well

the three volume set lncs 5101 5103 constitutes the refereed proceedings of the 8th international conference on computational science iccs 2008 held in krakow poland in june 2008 the 167 revised papers of the main conference track presented together with the abstracts of 7 keynote talks and the 100 revised papers from 14 workshops were carefully reviewed and selected for inclusion in the three volumes the main conference track was divided into approximately 20 parallel sessions addressing topics such as e science applications and systems scheduling and load balancing software services and tools new hardware and its applications computer networks simulation of complex systems image processing and visualization optimization techniques numerical linear algebra and numerical algorithms the second volume contains workshop papers related to various computational research areas e g computer graphics and geometric modeling simulation of multiphysics multiscale systems computational chemistry and its applications computational finance and business intelligence physical biological and social networks geocomputation and teaching computational science the third volume is mostly related to computer science topics such as bioinformatics challenges to computer science tools for program development and analysis in computational science software engineering for large scale computing collaborative and cooperative environments applications of workflows in computational science as well as intelligent agents and evolvable systems

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kubernetes is an essential tool for anyone deploying and managing cloud native applications kubernetes in action second edition is a fully updated and comprehensive guide to developing and running applications in a kubernetes environment kubernetes is an essential tool for anyone deploying and managing cloud native applications kubernetes in action second edition is a fully updated and comprehensive guide to developing and running applications in a kubernetes environment it lays out a complete introduction to container technologies and containerized applications along with practical tips for efficient deployment and operation this revised edition of the bestselling original contains new coverage of the kubernetes architecture including the kubernetes api and a deep dive into managing a kubernetes cluster in production about the technology kubernetes is greek for helmsman your guide through unknown waters the kubernetes container orchestration system safely manages the structure and flow of a distributed application organizing containers and services for maximum efficiency kubernetes serves as an operating system for your clusters reducing the need to factor the underlying network and server infrastructure into your designs as more and more applications are created using cloud native and container based architectures kubernetes has become an essential tool for modern developers to master about the book kubernetes in action second edition teaches you to use kubernetes to deploy container based distributed applications you ll start with an overview of how docker containers work with kubernetes and move quickly to building your first cluster you ll gradually expand your initial application adding features and deepening your knowledge of kubernetes architecture and operation in this revised and expanded second edition you ll take a deep dive into the structure of a kubernetes based application and discover how to manage a kubernetes cluster in production as you navigate this comprehensive guide you ll also appreciate thorough coverage of high value topics like monitoring tuning and

scaling what's inside up and running with kubernetes deploying containers across a cluster securing clusters updating applications with zero downtime about the reader written for intermediate software developers with little or no familiarity with docker or container orchestration systems about the author marko lukša is an engineer at red hat working on kubernetes and openshift kevin conner is the chief engineer with getup cloud a startup focusing on kubernetes and devsecops

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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

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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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