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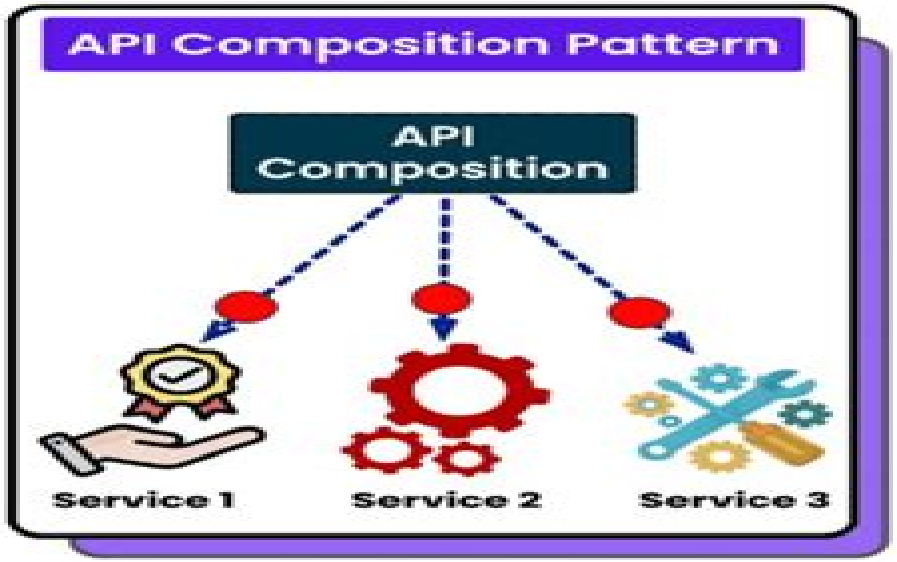
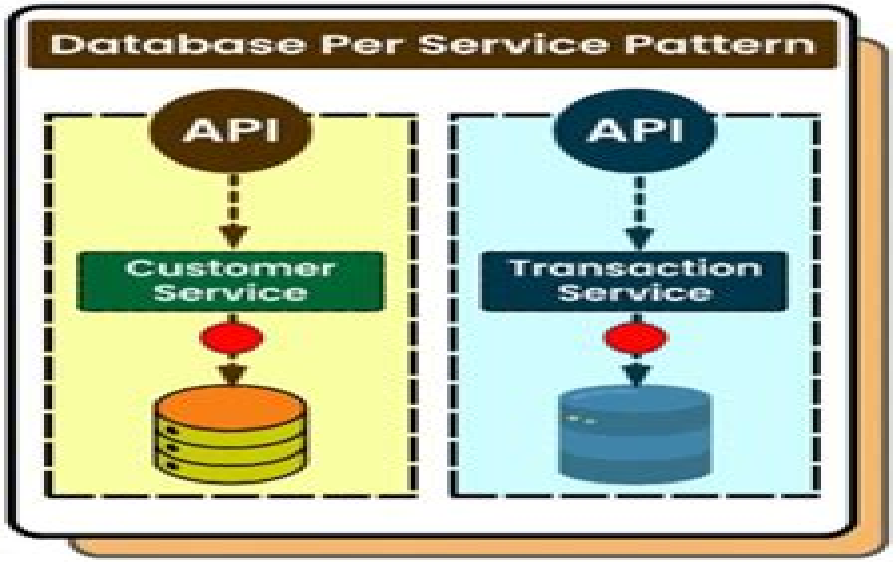
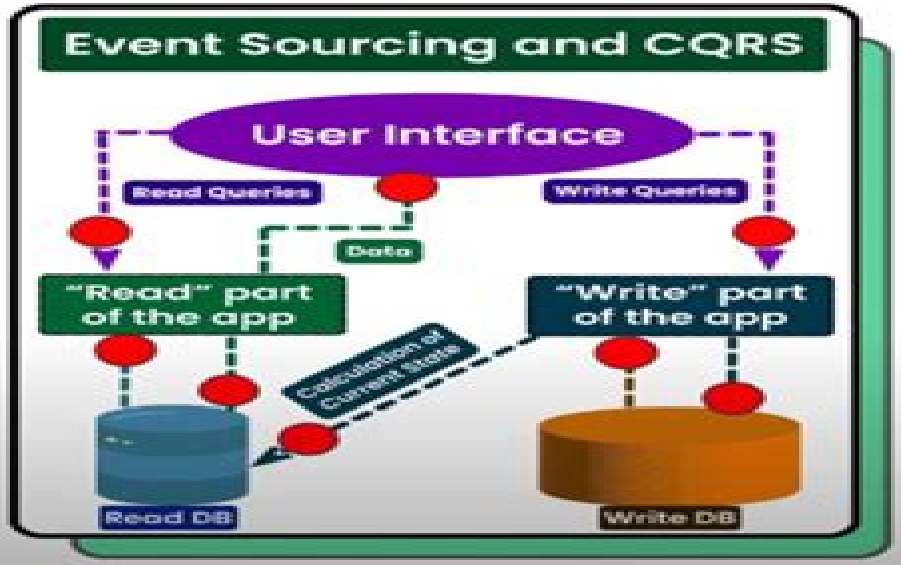
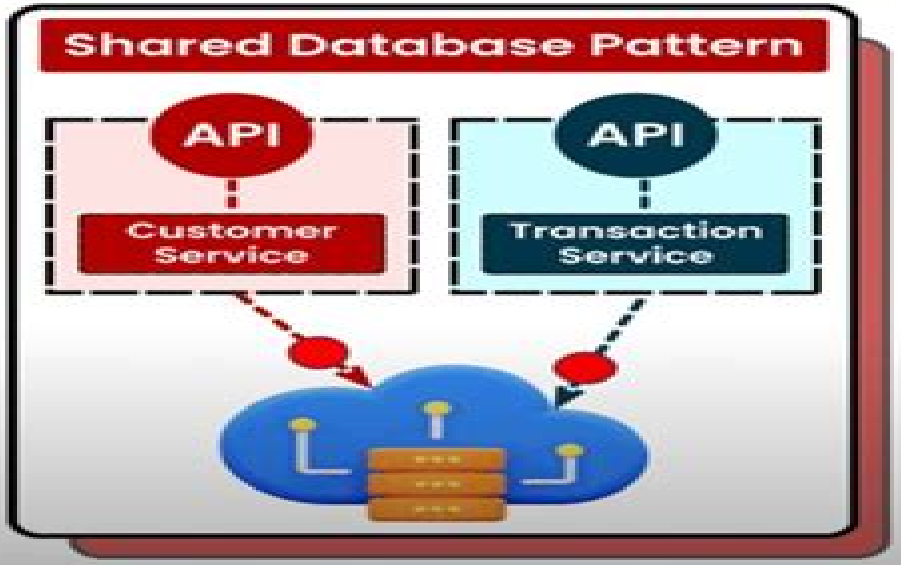
Top 4 Microservices Patterns









Microservices Patterns And Applications

Lucas Krause

Microservices Patterns And Applications:

Microservices: Patterns and Applications Lucas Krause,2015-04-01 Microservices Patterns and ApplicationsMicroservices are the next big thing in designing scalable easy to maintain applications This book will explain everything you need to know about Microservices to make your next project successful You will learn Microservice PatternsThis book goes into great detail on all of the Microservice Architecture patterns including Monolithic Architecture Microservice Architecture Service Discovery Gateway Proxy API Orchestrated API Service Registration CQRS and Event Sourcing Bulk Heads Circuit Breaker Message BrokerThe most important thing about Microservices is when and how to apply a pattern along with explaining what choices you must make and why Every system is different so it is vital to understand a lot of basics before designing and developing your own Microservices From Monolithic to Microservice The basics here are how to decompose a Monolithic system into a Microservice and this book shows exactly how this process is completed Service Oriented Architecture to MicroserviceA more common need is to migrate your system from a SOA based architecture to Microservices there are many advantages and the process is not as straightforward as you would expect New MicroservicesIf you want to build a brand new system and leverage the power of Microservices this book outlines the pitfalls strategies and tactics needs to make this work for you It is not as easy as it would seem and you will understand why after reading this book Microservice TechnologiesYou ll learn about what technologies you need to use and understand for successful Microservices Virtualization Containers Docker and Rocket Databases Security JSON Web Tokens Logging Exceptions Caching Timeouts Scalability CAP Cube Platform as a Service PaaS Cloud architecture Technology agnosticWhy Microservices Isn t this just the latest buzz word While Microservices may be a recent trend and is gaining traction across the industry as a silver bullet It is not a silver bullet In this book you will learn important reasons why you cannot treat Microservices or any technology or technique as a silver bullet There are tradeoffs and advnatages to every architectural decision you will understand the details by reading this book Most importantly you will understand how Microservices is what SOA had promised and never delivered Author Lucas KrauseLucas has been in the technology industry as a consultant contractor architect engineer and manager and understands and has used Microservices successfully to solve his client problems Philosophy of MicroservicesYou ll learn about what the philosophy of Microservices is and why this is important It is critical to understand the philosophy as that is what makes Microservices work at so many other companies and solutions If you are looking to gain an understanding of Microservices along with the patterns and application around the process to implementing them than this is the book for you Ready to learn about Microservices Let s go Want To Be brought up to speed on the latest innovations and techniques with Microservices Want to Understand Why Microservices What Makes Microservices so Special What are the potential pitfalls Why Are Microservices so popular How do I make my projects successful **Microservices Patterns** Chris Richardson,2018-10-27 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 Microservices Design Patterns in .NET Trevoir Williams,2023-01-13 Learn to be deliberate and intentional in your design technology and pattern choices when developing an application using a microservices architecture Key Features Tackle common design problems when developing a microservices application using NET Core Explore applying S O L I D development principles in developing a stable microservice application Use your knowledge to solve common microservice application design challenges Book DescriptionAre you a developer who needs to fully understand the different patterns and benefits that they bring to designing microservices If yes then this book is for you Microservices Design Patterns in NET will help you appreciate the various microservice design concerns and strategies that can be used to navigate them Making a microservice based app is no easy feat and there are many concerns that need to be addressed As you progress through the chapters of this guide you ll dive headfirst into the problems that come packed with this architectural approach and then explore the design patterns that address these problems You ll also learn how to be deliberate and intentional in your architectural design to overcome major considerations in building microservices By the end of this book you ll be able to apply critical thinking and clean coding principles when creating a microservices application

using NET Core What you will learn Use Domain Driven Design principles in your microservice design Leverage patterns like event sourcing database per service and asynchronous communication Build resilient web services and mitigate failures and outages Ensure data consistency in distributed systems Leverage industry standard technology to design a robust distributed application Find out how to secure a microservices designed application Use containers to handle lightweight microservice application deployment Who this book is for If you are a NET developer senior developer software architect or DevOps engineer who wants to explore the pros and cons intricacies and overall implementation of microservice architecture then this book is for you You ll also get plenty of useful insights if you re seeking to expand your knowledge of different design patterns and supporting technologies Basic experience with application and API development with NET Core 2 and C will help you get the most out of this book Microservice Patterns and Best Practices Vinicius Feitosa Pacheco,2018-01-31 Explore the concepts and tools you need to discover the world of microservices with various design patterns Key Features Get to grips with the microservice architecture and build enterprise ready microservice applications Learn design patterns and the best practices while building a microservice application Obtain hands on techniques and tools to create high performing microservices resilient to possible fails Book Description Microservices are a hot trend in the development world right now Many enterprises have adopted this approach to achieve agility and the continuous delivery of applications to gain a competitive advantage This book will take you through different design patterns at different stages of the microservice application development along with their best practices Microservice Patterns and Best Practices starts with the learning of microservices key concepts and showing how to make the right choices while designing microservices You will then move onto internal microservices application patterns such as caching strategy asynchronism CQRS and event sourcing circuit breaker and bulkheads As you progress you ll learn the design patterns of microservices The book will guide you on where to use the perfect design pattern at the application development stage and how to break monolithic application into microservices You will also be taken through the best practices and patterns involved while testing securing and deploying your microservice application At the end of the book you will easily be able to create interoperable microservices which are testable and prepared for optimum performance What you will learn How to break monolithic application into microservices Implement caching strategies CQRS and event sourcing and circuit breaker patterns Incorporate different microservice design patterns such as shared data aggregator proxy and chained Utilize consolidate testing patterns such as integration signature and monkey tests Secure microservices with JWT API gateway and single sign on Deploy microservices with continuous integration or delivery Blue Green deployment Who this book is for This book is for architects and senior developers who would like implement microservice design patterns in their enterprise application development The book assumes some prior programming knowledge **MICROSERVICES PATTERNS.** CHRIS. RICHARDSON,2025 **Cloud Application Architecture Patterns** Kyle Brown,Bobby Woolf,Joseph Yoder,2025-04-15 There are more applications running

in the cloud than there are ones that run well there If you re considering taking advantage of cloud technology for your company s projects this practical guide is an ideal way to understand the best practices that will help you architect applications that work well in the cloud no matter which vendors products or languages you use Architects and lead developers will learn how cloud applications should be designed how they fit into a larger architectural picture and how to make them operate efficiently Authors Kyle Brown Bobby Woolf and Joseph Yoder take you through the process step by step Explore proven architectural practices for developing applications for the cloud Understand why some architectural choices are better suited than others for applications intended to run on the cloud Learn design and implementation techniques for developing cloud applications Select the most appropriate cloud adoption patterns for your organization See how all potential choices in application design relate to each other through the connections of the patterns Chart your own course in adopting the right strategies for developing application architectures for the cloud **Building Microservices with Spring** Dinesh Rajput,Rajesh R V,2018-12-21 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 **Microservices Patterns Video Edition** Chris Richardson,2018 A comprehensive overview of the challenges teams face when moving to microservices with industry tested solutions to these problems Tim Moore Lightbend Microservices Patterns teaches enterprise developers and architects how to build applications with the microservice architecture Rather than simply advocating for the use the microservice architecture this clearly written guide takes a balanced pragmatic approach exploring both the benefits and drawbacks Successfully developing microservices based applications requires mastering a new set of architectural insights and practices In this unique book microservice architecture pioneer and Java Champion Chris Richardson collects catalogues and explains 44 patterns that solve problems such as service decomposition transaction management querying and inter service communication Microservices Patterns teaches you how to 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 writing services and composing them into systems that scale and perform reliably under real world conditions More than just a patterns catalog this practical guide offers experience driven advice to help you design implement test and deploy your microservices based application Inside How and why to use the microservice architecture Service decomposition strategies Transaction management and querying patterns Effective testing strategies Deployment patterns This book course is made for enterprise developers familiar with standard enterprise application architecture Examples are in Java Chris Richardson is a Java Champion a JavaOne rock star author of Manning s POJOs in Action and creator of the original CloudFoundry com Pragmatic treatment of an important new architectural landscape Simeon Leyzerzon Excelsior Software A solid compendium of information that will quicken your migration to this modern cloud based architecture John Guthrie Dell EMC How to understand the microservices approach and how to use it in real life Potito Coluccelli Bizmatica Econocom NARRATED BY AIDEN HUMPHREYS AND LOU FERNANDEZ *Next-Gen Digital Services. A Retrospective and Roadmap for Service Computing of the Future* Marco Aiello,Athman Bouguettaya,Damian Andrew Tamburri,Willem-Jan van den Heuvel,2021-04-09 This book is a festschrift in honour of Mike Papazoglou s 65th birthday and retirement It includes 20 contributions from leading researchers who have worked with Mike in his more than 40 years of academic research Topics are as varied as Mike s and include service engineering service management services and human IoT and data driven services 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 Embracing Microservices Design Ovais Mehboob Ahmed Khan,Nabil Siddiqui,Timothy Oleson,Mark Fussell,2021-10-29 Develop microservice based enterprise applications with expert guidance to avoid failures and technological debt with the help of real world examples Key FeaturesImplement the right microservices adoption strategy to transition from monoliths to microservicesExplore real world use cases that explain anti patterns and alternative practices in microservices developmentDiscover proven recommendations for avoiding architectural mistakes when designing microservicesBook Description Microservices have been widely adopted for designing distributed enterprise apps that are flexible robust and fine grained into services that are independent of each other There has been a paradigm shift where organizations are now either building new apps on microservices or transforming existing monolithic apps into microservices based architecture This book explores the importance of anti patterns and the need to address flaws in them with alternative practices and patterns You ll identify common mistakes caused by a lack of understanding when implementing microservices and cover topics such as organizational readiness to adopt microservices domain driven design and resiliency and scalability of microservices The book further demonstrates the anti patterns involved in re platforming brownfield apps and designing distributed data architecture You ll also focus on how to avoid communication and deployment pitfalls and understand cross cutting concerns

such as logging monitoring and security Finally you ll explore testing pitfalls and establish a framework to address isolation autonomy and standardization By the end of this book you ll have understood critical mistakes to avoid while building microservices and the right practices to adopt early in the product life cycle to ensure the success of a microservices initiative What you will learnDiscover the responsibilities of different individuals involved in a microservices initiativeAvoid the common mistakes in architecting microservices for scalability and resiliencyUnderstand the importance of domain driven design when developing microservicesIdentify the common pitfalls involved in migrating monolithic applications to microservicesExplore communication strategies along with their potential drawbacks and alternativesDiscover the importance of adopting governance security and monitoringUnderstand the role of CI CD and testingWho this book is for This practical microservices book is for software architects solution architects and developers involved in designing microservices architecture and its development who want to gain insights into avoiding pitfalls and drawbacks in distributed applications and save time and money that might otherwise get wasted if microservices designs fail Working knowledge of microservices is assumed to get the most out of this book **Practical Microservices Architectural Patterns** Binildas Christudas,Tarun Telang,2025-10-03 Upgrade your distributed applications with microservices This practical guide bridges core concepts and advanced patterns to help you build resilient scalable and high performing microservices whether you re transitioning from monolithic architectures or starting fresh with microservices Fully updated for Spring Boot 3 and Spring Cloud The Second covers modern capabilities like reactive programming enhanced observability advanced security and streamlined configuration management Learn to solve common architectural challenges in cloud native development including service discovery inter service communication distributed transactions configuration management and fault tolerance mechanisms like retries timeouts and circuit breakers You ll also implement real world patterns using powerful frameworks like Axon for event sourcing and command handling and Atomikos for managing distributed transactions with XA protocols This book provides a hands on introduction to building modern cloud native applications from scratch building up to in depth discussions on advanced topics such as CQRS and event driven architecture What You Will Learn Explore the latest features in Spring Boot 3 and Spring Cloud 2024 Build and manage microservices with routing security and interservice communication Apply proven patterns for real world microservices problems Design event driven architectures and implement CQRS Enable service discovery centralized configuration and resilience with Spring Cloud Handle distributed transactions using XA and Saga patterns Leverage Axon Framework for event sourcing and command handling Secure services with OAuth2 0 and JWT Learn best practices for testing fault tolerance and observability Who This Book Is For Java developers and software architects who have a foundational understanding of distributed multi threaded application architecture No prior experience with Spring Boot or Spring Cloud is required *Spring Microservices in Action, Second Edition* John Carnell,Illary Sanchez,2021-06-08 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 *Service-Oriented Computing* Marco Aiello,Shuiguang Deng,Juan-Manuel Murillo,Ilche Georgievski,Boualem Benatallah,Zhongjie Wang,2026-01-01 The two volume set LNCS 16320 and16321 constitutes the refereed proceedings of the 23rd International Conference on Service Oriented Computing ICSOC 2025 held in Shenzhen China during December 1 4 2025 The 42 full papers and 21 short papers presented in these proceedings were carefully reviewed and selected from 219 submissions The papers are organized in the following topical sections Part I Service Foundations Service Recommendation and Selection Microservice Architectures Serverless Computing and Services at the Edge Part II Software as a Services and Cloud Infrastructure Privacy Security and Trust Services and Business Processes Quantum Service Computing and Industrial Papers **Design Patterns for Cloud Native Applications** Kasun Indrasiri,Sriskandarajah Suhothayan,2021-05-17 With the immense cost savings and scalability the cloud provides the

rationale for building cloud native applications is no longer in question The real issue is how With this practical guide developers will learn about the most commonly used design patterns for building cloud native applications using APIs data events and streams in both greenfield and brownfield development You ll learn how to incrementally design develop and deploy large and effective cloud native applications that you can manage and maintain at scale with minimal cost time and effort Authors Kasun Indrasiri and Sriskandarajah Suhothayan highlight use cases that effectively demonstrate the challenges you might encounter at each step Learn the fundamentals of cloud native applications Explore key cloud native communication connectivity and composition patterns Learn decentralized data management techniques Use event driven architecture to build distributed and scalable cloud native applications Explore the most commonly used patterns for API management and consumption Examine some of the tools and technologies you ll need for building cloud native systems

Advanced Serverless Data Management: Harnessing Google Cloud Functions for Cutting-Edge Processing Adam Jones,2025-01-03 Embark on a journey to master serverless data management with Advanced Serverless Data Management Harnessing Google Cloud Functions for Cutting Edge Processing This comprehensive guide is meticulously crafted for developers and IT professionals looking to leverage the power of serverless computing to build scalable efficient and cost effective applications Whether you re a novice eager to explore serverless technologies or an experienced developer aiming to deepen your expertise in Google Cloud Functions this book offers a wealth of knowledge on essential topics From setting up your environment and developing your first function to advanced integration and security practices each chapter unfolds in a logical structured manner providing practical insights and examples Learn how to process data in real time seamlessly integrate with a multitude of Google Cloud Platform services optimize performance and troubleshoot with confidence Advanced Serverless Data Management is not just a book it s your companion in navigating the evolving landscape of serverless computing unlocking the full potential of Google Cloud Functions to innovate and elevate your projects and applications **Microservices Patterns** Austin Young,2019-09-15 Microservices a form of software architecture approach allows companies to deliver services and products faster and with scalability and flexibility The guiding principle of microservices is to build an application by breaking down its business components into smaller services which can be deployed and operated independently from each other This sets it apart from the more traditional monolithic architecture wherein all components are bundled together Companies that successfully adopt the appropriate microservice patterns for their application can greatly increase the time it takes to convert their ideas into customer value which sustains long term customer relationships and generates revenue This is because with microservices development teams do not have to rewrite and deploy the whole application when new features are added In addition it takes less time and is much easier to conduct continuous maintenance This book attempts to explore all you need to know regarding microservice architecture and patterns It will assist you in making informed decisions if you have plans to implement microservices architecture What You ll

Learn Examine the characteristics concepts and culture that define microservice architectures Discover how microservices can help you drive business objectives Comprehend the challenges of scaling microservice architectures Analyze the complexities of monitoring and testing distributed systems Explore effective testing strategies for microservices Secure microservices with Single Sign On API gateway JWT and so on Learn how to implement different microservice design patterns to facilitate scalability whilst maintaining consistency And lots more **Creating Applications in Bluemix Using the Microservices Approach** Vasfi Gucer,Shishir Narain,IBM Redbooks,2015-09-08 Microservices is an architecture style in which large complex software applications are composed of one ore more microservices Each microservice focuses on doing one task representing a small business capability These microservices can be developed in any programming language and communicate with each other using language agnostic APIs such as REST or messaging applications such as IBM MQ Light This IBM Redbooks Solution Guide gives a broad understanding of this increasingly popular architectural style and show how you can develop applications using the microservices approach with IBM Bluemix Practical Microservices Architectural Patterns Binildas Christudas,2019-06-25 Take your distributed applications to the next level and see what the reference architectures associated with microservices can do for you This book begins by showing you the distributed computing architecture landscape and provides an in depth view of microservices architecture Following this you will work with CQRS an essential pattern for microservices and get a view of how distributed messaging works Moving on you will take a deep dive into Spring Boot and Spring Cloud Coming back to CQRS you will learn how event driven microservices work with this pattern using the Axon 2 framework This takes you on to how transactions work with microservices followed by advanced architectures to address non functional aspects such as high availability and scalability In the concluding part of the book you develop your own enterprise grade microservices application using the Axon framework and true BASE transactions while making it as secure as possible What You Will Learn Shift from monolith architecture to microservices Work with distributed and ACID transactions Build solid architectures without two phase commit transactions Discover the high availability principles in microservices Who This Book Is For Java developers with basic knowledge of distributed and multi threaded application architecture and no knowledge of Spring Boot or Spring Cloud Knowledge of CQRS and event driven architecture is not mandatory as this book will cover these in depth **SRE with Java Microservices** Jon Schneider,2020-10-31 In a microservices architecture the whole is indeed greater than the sum of its parts But in practice individual microservices can inadvertently impact others and alter the end user experience Effective microservices architectures require standardization on an organizational level with the help of a platform engineering team This practical book provides a series of progressive steps that platform engineers can apply technically and organizationally to achieve highly resilient Java applications Author Jon Schneider covers many effective SRE practices from companies leading the way in microservices adoption You ll examine several patterns that were created after much trial and error in recent years

complete with Java code examples Chapters are organized according to specific patterns including Application Metrics Availability debuggability and Micrometer Debugging with observability Three pillars of observability components of a distributed trace Charting and alerting Building effective charts KPIs for Java microservices Safe multi cloud delivery Automated canary analysis Source code observability The problem of dependencies API utilization Traffic management Concurrency of systems platform gateway and client side load balancing

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