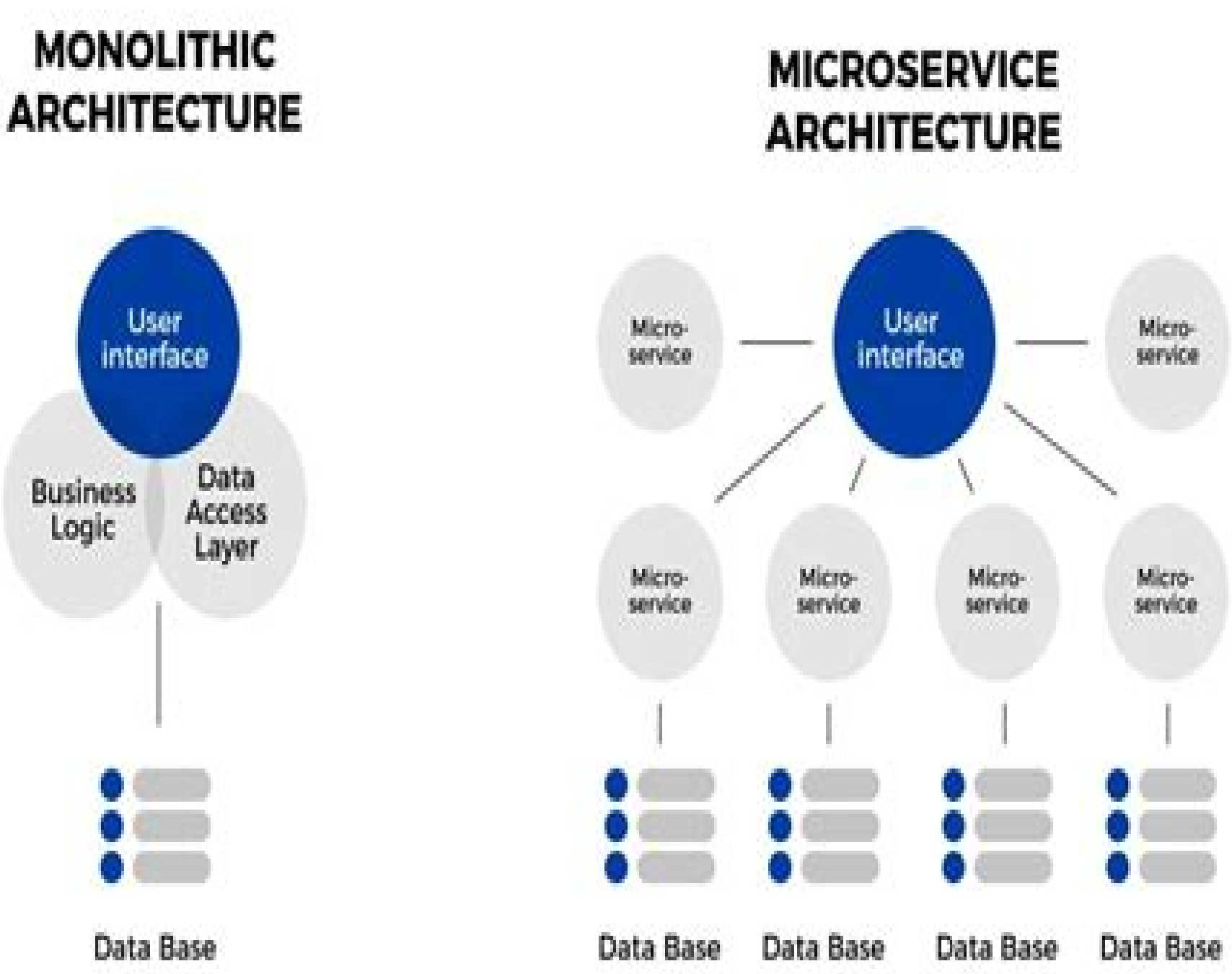
MONOLITHIC ARCHITECTURE
User interface
Business Logic
Data Access Layer
Data Base
MICROSERVICE ARCHITECTURE
Micro-service
User interface
Micro-service
Micro-service
Micro-service
Micro-service
Micro-service
Data Base
Data Base
Data Base
Data Base

Many Small Monoliths Microservices Vs Monolithic

Hugo Filipe Oliveira Rocha

Many Small Monoliths Microservices Vs Monolithic:

Evolve the Monolith to Microservices with Java and Node Sandro De Santis,Luis Florez,Duy V Nguyen,Eduardo Rosa,IBM Redbooks,2016-12-05 Microservices is an architectural style in which large complex software applications are composed of one or more smaller services Each of these microservices focuses on completing one task that represents a small business capability These microservices can be developed in any programming language This IBM Redbooks publication shows how to break out a traditional Java EE application into separate microservices and provides a set of code projects that illustrate the various steps along the way These code projects use the IBM WebSphere Application Server Liberty IBM API ConnectTM IBM Bluemix and other Open Source Frameworks in the microservices ecosystem The sample projects highlight the evolution of monoliths to microservices with Java and Node **Modular Minimal API .NET 10** Afandy Lamusu,2026-02-25 Are you tired of Hello World tutorials that never show you how real world apps are built Modular Minimal API NET 10 is a practical project based ebook designed for developers who want to move from beginner to professional We build a functional secure and scalable e commerce backend from scratch using the industry s latest best practices Why this book Beginner Friendly Complex concepts like Dependency Injection and JWT are explained using simple real world analogies Production Oriented We don t take shortcuts You ll learn about global error handling correlation IDs and Dockerization Deep Dives Understand the why behind every decision from choosing PostgreSQL to implementing the Strangler Fig pattern Visual Learning Includes detailed architecture diagrams to help you visualize how data flows through your system Tech Stack Included NET 10 Minimal APIs PostgreSQL Schema based isolation Entity Framework Core FluentValidation Serilog Docker Docker Compose Transform your coding skills today Build a backend that is not just functional but beautiful in its architecture AI Disclosure Technical Accuracy This book was developed with the assistance of Artificial Intelligence AI as a research and editorial aid However the core architectural concepts the Modular Minimal API design patterns and all NET 10 code implementations presented herein are based entirely on the author s 14 years of professional experience in the software industry A Guide to Java Interviews Aishik Dutta, Unlock Your Next Java Role A Guide to Java Interviews Navigating the competitive landscape of Java interviews requires more than just coding skills it demands strategy deep technical understanding and effective communication Whether you re an aspiring junior developer or a seasoned senior engineer A Guide to Java Interviews is your comprehensive companion to mastering the entire interview process and landing your dream job This guide dives deep into the essential knowledge domains critical for success Laying the Foundation Understand the modern interview process craft a winning ATS optimized resume highlighting quantifiable achievements and build a strategic preparation plan tailored to your target roles and experience level Mastering Core Java Solidify your grasp of fundamentals like JVM JDK JRE distinctions primitive vs reference types String handling intricacies including immutability and the String Pool OOP pillars Encapsulation Inheritance Polymorphism Abstraction exception handling best practices the Collections Framework List Set Map

implementations and trade offs and essential Java 8 features like Lambdas Streams and the new Date Time API Conquering Data Structures Algorithms DSA Move beyond theory to practical application Understand complexity analysis Big O master core data structures Arrays Linked Lists Stacks Queues Hash Tables Trees Heaps Graphs and learn essential algorithms Sorting Searching Recursion Dynamic Programming Greedy with Java implementations and interview focused problem solving patterns Two Pointers Sliding Window Backtracking Advanced Java JVM Internals Concurrency Delve into JVM architecture class loading garbage collection mechanisms including G1 ZGC JIT compilation multithreading fundamentals synchronization synchronized volatile Locks the Executor Framework concurrent collections and common issues like deadlocks Navigating the Ecosystem Gain confidence discussing the dominant Spring Framework and Spring Boot including IoC DI key modules MVC Data JPA Security persistence strategies JDBC vs ORM Hibernate transaction management Transactional relational vs NoSQL databases including Redis and MongoDB RESTful API design microservices concepts build tools Maven Gradle and testing frameworks JUnit Mockito Excelling in the Interview Room Learn strategies for technical phone screens online coding challenges whiteboarding system design rounds and effectively answering behavioral questions using the STAR method Understand how to evaluate offers negotiate compensation and foster continuous learning for long term career growth Packed with clear explanations practical Java examples comparison tables and strategic advice A Guide to Java Interviews equips you with the knowledge and confidence needed to demonstrate your expertise and stand out from the competition Start preparing strategically and take the next step in your Java career Monolith to Microservices Sam Newman,2019-11-14 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 **Production-Ready Microservices** Susan J. Fowler,2016-11-30 One of the biggest challenges for organizations that have adopted microservice architecture is the lack of architectural operational and organizational standardization After splitting a monolithic application or building a

microservice ecosystem from scratch many engineers are left wondering what s next In this practical book author Susan Fowler presents a set of microservice standards in depth drawing from her experience standardizing over a thousand microservices at Uber You ll learn how to design microservices that are stable reliable scalable fault tolerant performant monitored documented and prepared for any catastrophe Explore production readiness standards including Stability and Reliability develop deploy introduce and deprecate microservices protect against dependency failures Scalability and Performance learn essential components for achieving greater microservice efficiency Fault Tolerance and Catastrophe Preparedness ensure availability by actively pushing microservices to fail in real time Monitoring learn how to monitor log and display key metrics establish alerting and on call procedures Documentation and Understanding mitigate tradeoffs that come with microservice adoption including organizational sprawl and technical debt Cloud Application Architecture Patterns Anubhav Kumar Gupta,2025-07-17 DESCRIPTION Cloud computing has become the foundation of modern software delivery powering everything from agile startups to global enterprises As businesses race to modernize understanding how to design cloud native applications that scale recover and evolve has never been more essential This book steps in as your go to guide for navigating the architectural challenges of today s dynamic cloud landscape This book systematically covers cloud evolution from traditional IT to IaaS PaaS and SaaS including deployment models and data concepts You will master fundamental principles like scalability and resource pooling then explore service models in depth with migration case studies Chapters detail practical scalability patterns load balancing auto scaling partitioning and resiliency patterns health monitoring circuit breakers Essential data management and crucial security patterns identity encryption compliance are covered Finally you will learn advanced messaging and integration patterns robust monitoring and observability patterns vital for DevOps and explore future trends like serverless edge and AI integration By the end you will possess comprehensive knowledge and practical understanding of cloud application design ready to confidently architect deploy and manage effective secure cloud solutions WHAT YOU WILL LEARN Design scalable cloud native applications with proven architecture patterns Apply resiliency strategies like failover and graceful degradation Understand deployment models and pick the right one for your needs Architect secure systems with encryption and API security Implement observability with metrics traces and logging Navigate hybrid integrations using event driven and messaging patterns Stay ahead with trends like serverless and sustainable cloud designs WHO THIS BOOK IS FOR This book is ideal for cloud architects software engineers DevOps professionals enterprise tech leads and computer science students Readers should possess a foundational understanding of programming concepts and basic IT infrastructure to best leverage this guide s architectural insights TABLE OF CONTENTS 1 Introduction to Cloud Computing 2 Evolution of Cloud Computing 3 Fundamental Concepts 4 Services and Deployment Models 5 Scalability Patterns 6 Resiliency Patterns 7 Data Management Patterns 8 Security Patterns 9 Messaging and Integration Patterns 10 Monitoring and Observability Patterns 11 Future Trends **Strategic Monoliths and**

Microservices Vaughn Vernon,Tomasz Jaskula,2021-10-27 Make Software Architecture Choices That Maximize Value and Innovation Vernon and Jasku a provide insights tools proven best practices and architecture styles both from the business and engineering viewpoint This book deserves to become a must read for practicing software engineers executives as well as senior managers Michael Stal Certified Senior Software Architect Siemens Technology Strategic Monoliths and Microservices helps business decision makers and technical team members clearly understand their strategic problems through collaboration and identify optimal architectural approaches whether the approach is distributed microservices well modularized monoliths or coarser grained services partway between the two Leading software architecture experts Vaughn Vernon and Tomasz Jasku a show how to make balanced architectural decisions based on need and purpose rather than hype so you can promote value and innovation deliver more evolvable systems and avoid costly mistakes Using realistic examples they show how to construct well designed monoliths that are maintainable and extensible and how to gradually redesign and reimplement even the most tangled legacy systems into truly effective microservices Link software architecture planning to business innovation and digital transformation Overcome communication problems to promote experimentation and discovery based innovation Master practices that support your value generating goals and help you invest more strategically Compare architectural styles that can lead to versatile adaptable applications and services Recognize when monoliths are your best option and how best to architect design and implement them Learn when to move monoliths to microservices and how to do it whether they re modularized or a Big Ball of Mud Register your book for convenient access to downloads updates and or corrections as they become available See inside book for details **Systems, Software and Services Process Improvement** Murat Yilmaz,Paul Clarke,Richard Messnarz,Bruno Wöran,2022-08-25 This volume constitutes the refereed proceedings of the 29th European Conference on Systems Software and Services Process Improvement EuroSPI 2022 held in Salzburg Austria in August September 2022 The 49 full papers and 8 short papers presented were carefully reviewed and selected from 110 submissions The papers are organized according to the following topical sections SPI and emerging and multidisciplinary approaches to software engineering digitalisation of industry infrastructure and e mobility SPI and good bad SPI practices in improvement SPI and functional safety and cybersecurity SPI and agile SPI and standards and safety and security norms SPI and team skills and diversity SPI and recent innovations virtual reality and augmented reality *Monolith to Microservices* Sam Newman,2019-11-14 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

Monolith to Microservices Sam Newman,2019 How do you detangle a monolithic system and migrate it to a microservices 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

Monolith to Microservices. Evolutionary Patterns to Transform Your Monolith ,2021 Migrating to Microservice Databases Edson Yanaga.,2017 **Learn Microservices with Spring Boot 3** Moisés Macero García,Tarun Telang,2023-12-01 This book will show you how to build Java based microservices architecture using the popular Spring Boot framework by evolving a small monolith application to an event driven architecture composed of several services This third edition has been updated to cover Spring Boot 3 including its compatibility with Java 17 and Jakarta EE 10 and employs an incremental approach to teach the structure of microservices test driven development and common patterns in distributed systems such as service discovery load balancing routing centralized logs per environment configuration and containerization Authors Mois s Macero and Tarun Telang get the ball rolling by introducing you to the fundamentals of microservices and Spring Boot before walking you through the development of a basic Spring Boot application You ll then see how to build a front end using React and learn how to use the data layer to read and write data from and to other systems via Spring Boot and its access to Spring Data and its available APIs Putting together what you ve learned thus far you ll begin to transform an application from a monolith to a microservice This pragmatic approach will enable you to better grasp the benefits of using

this type of software architecture instead of keeping you distracted with theoretical concepts The emphasis is on what matters most starting with the minimum viable product while maintaining the ability to adapt and improve your application as needed After completing this book you will have the foundational knowledge necessary to build your own microservice based applications using Spring Boot What You Will Learn Gain a thorough understanding of microservices architecture and how it differs from monolithic architectures Discover the step by step process of breaking down a monolithic application into smaller focused services Build microservices with Spring Boot 3 Spring Data Spring Cloud React js Docker Cucumber and more Develop Java based microservices using the latest version of Spring Boot compatible with Java 17 and Jakarta EE 10 Discover architecture patterns for distributed systems such as asynchronous processing eventual consistency resilience scalability and more Gain insight into event driven communication patterns and understand how to design and build event driven microservices Trace every request from beginning to end with Sleuth and centralized logging Deploy your microservices anywhere as Docker containers Who This Book Is For Those with at least some prior experience with Java programming Some prior exposure to Spring Boot recommended but not required *Hands-On Microservices with C# 8 and . NET Core 3* Gaurav Aroraa,Ed Price,2020-03-27 Learn the essential concepts techniques and design patterns that will help you build scalable and maintainable distributed systems Key Features Learn to design implement test and deploy your microservices Understand the challenges and complexities of testing and monitoring distributed services Build modular and robust microservice architectures with the latest features of C 8 and NET Core 3 1 Book Description The microservice architectural style promotes the development of complex applications as a suite of small services based on specific business capabilities With this book you ll take a hands on approach to build microservices and deploy them using ASP NET Core and Microsoft Azure You ll start by understanding the concept of microservices and their fundamental characteristics This microservices book will then introduce a real world app built as a monolith currently struggling under increased demand and complexity and guide you in its transition to microservices using the latest features of C 8 and NET Core 3 You ll identify service boundaries split the application into multiple microservices and define service contracts You ll also explore how to configure deploy and monitor microservices using Docker and Kubernetes and implement autoscaling in a microservices architecture for enhanced productivity Once you ve got to grips with reactive microservices you ll discover how keeping your code base simple enables you to focus on what s important rather than on messy asynchronous calls Finally you ll delve into various design patterns and best practices for creating enterprise ready microservice applications By the end of this book you ll be able to deconstruct a monolith successfully to create well defined microservices What you will learn Package deploy and manage microservices and containers with Azure Service Fabric Use REST APIs to integrate services using a synchronous approach Protect public APIs using Azure Active Directory and OAuth 2 0 Understand the operation and scaling of microservices using Docker and Kubernetes Implement reactive microservices with Reactive Extensions Discover design

patterns and best practices for building enterprise ready apps Who this book is for This book is for C and NET Core developers who want to understand microservices architecture and implement it in their NET Core applications If you re new to building microservices or have theoretical knowledge of the architectural approach this book will help you gain a practical perspective to manage application complexity efficiently **The Art of Decoding Microservices** Sumit Bhatnagar,Roshan Mahant,2025-03-01 Stay competitive in today s software industry by mastering microservices As microservices architecture becomes the modern standard this book demystifies the transition from monoliths to microservices with clear guidance and practical examples for easier adoption and implementation The book starts with the basics explaining what microservices are their benefits and how they compare to monolithic architectures From there you will explore a wide range of topics including service discovery load balancing authentication and authorization resilience fault tolerance and much more as well as practical Java examples throughout Each chapter is meticulously crafted to offer a balance of theory and hands on application ensuring you not only understand the concepts but also apply them effectively in real world scenarios By the end of the book you will be ready to design implement and manage scalable and efficient microservices based systems Additionally you will gain a forward looking perspective on emerging trends and the integration of microservices in AI and IoT What You Will Learn Compare microservices and monolithic systems understanding the basics benefits and key differences Understand key principles for decomposing monoliths and designing for failure Master synchronous vs asynchronous communication and when to use each Explore containerization orchestration with Kubernetes and scaling strategies Secure microservices and monitor health and performance in distributed systems Who This Book Is For Novice and experienced developers who are new to microservices and want to master the topic to drive successful software projects The book is programming language agnostic and can be understood by developers of any language but those with some familiarity with Java will benefit more from the specific examples provided **Microservices for Beginners** Aaron Hudson,2020-02-13 You Are 1 Click Away From Learning How To Leverage The Power Of Microservices To Design Build Deploy And Maintain Scalable And Maintainable Applications With Ease They say breaking big tasks into small simple and doable tasks is the secret to getting stuff done fast In the tech world nothing represents this concept of breaking big tasks goals projects into small bit sized tasks modular components services that can be done by multiple people and teams than macroservices And the truth is microservice technologies are evolving very fast with distributed systems becoming more fine grained in the last decade shifting from monolithic applications to self contained microservices However while microservices are indeed great for designing building deploying maintaining and scaling complex applications fast these systems can be challenging to understand and put together to work as efficiently as expected If you are new to the whole concept of microservices I know you are probably wondering So what are the benefits of using microservices Why should you use microservices what makes them so special How can you use microservices security patterns in the real world How can you

design and develop microservices that function properly How do you troubleshoot everything And how can you apply the most modern techniques around messaging technologies and to overcome inter service communication problems If you have any of these and any other related questions this book is for you so keep reading as this detailed yet simple guide will show you the grounding concepts while diving into current solutions for integrating modeling deploying testing and monitoring your own autonomous services More precisely inside this book you will learn The basics of microservices including what they are the approach behind microservices the evolution of microservices and the features of microservices How communication works in microservices including factors to consider for microservices architecture building The ins and outs of a service oriented architecture including the microservices drawbacks and the secret benefits of using microservices The architecture mindset on microservices How to design scalable backend infrastructures from scratch Everything you need to know about integration of microservices and the difference between orchestration and choreography The ins and out of representational state transfer including the downsides to remainder over HTTP and the complexities of asynchronous architectures How to use DRY and perils of code reuse in a microservice All about versioning and how it is used in microservices The API composition the UI fragment composition and backends for frontends How to test microservices including solution examinations end to end tests trade offs and implementing service tests Monitoring microservices including the ins and outs of solitary service single server Cascading failures and how to deal with them Everything you need to know about microservices security and how to implement them Service to service authentication and authorization And much more Even if this is the first time coming across the term microservices worry no more because this book takes a beginner friendly approach to ensure you understand everything you learn and can start putting it into action Are you ready to take your application development skillset to the next level with microservices If you are Scroll up and click *The Tao of Microservices* Richard Rodger,2017-12-11 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 Microservices Video Collection** Rachel Roumeliotis,2016 Is it finally time to move on from the monolith Microservices offer answers to many of the problems that monoliths imposed on your company s software architecture but they are not without their issues This collection covers the basics of launching a microservice through deployment and highlights some of the issues you may come up against on that journey Practical Event-Driven Microservices Architecture Hugo Filipe Oliveira Rocha,2021-12-06 In the simplest terms event driven architectures are like onions they are manageable as a single layer like a monolith but when you get into them they begin to cascade apart and you quickly realize that there are many complex layers distributed microservices architecture And that s when the tears begin This prescriptive guide takes you through the steps of moving a platform with millions of users from a monolith to a microservices event driven architecture You will learn about the challenges and complexities that arise in high throughput environments that often contain upwards of hundreds of microservices This book is designed to be your single best resource for learning how to apply event driven architectures in real world scenarios and offers hundreds of patterns to overcome the common and not so common challenges While event driven architectures have been the standard for decoupled pluggable evolutionary architectures for years they have only recently been adopted by enterprises for the purpose of distributed microservices and there is little information about adopting them Using them at scale can save valuable resources but requires different considerations including the added complexity of supporting several moving parts and getting the event schema right from the start in order to avoid large restructuring later on Author Hugo Rocha understands that these kinds of challenges as well as many others need to be considered from the beginning and helps teach you the mindset needed to create a deliberate strategy upfront This book offers learning approaches and patterns to get you up to speed in order to sustainably build and manage event driven architectures What You Will Learn Understand the real world challenges of event driven architectures and the patterns to deal with those challenges and the trade offs of each solution Leverage the advantages of event driven architectures to build scalable solutions and address legacy applications Plan successful future implementations to avoid common pitfalls and apply proven patterns to deal with challenges in a real world platform with millions of users Decide whether event driven solutions are the right choice for the requirements at hand Discuss and understand advanced concepts about event driven architectures Who Is This Book For Software engineers and

software architects Anyone currently working with microservice architectures primarily event driven microservices will greatly benefit from this book Readers working with monoliths will benefit as the book explores migration from a monolithic application to an event driven microservice architecture **Microservices - the Practical Way** Moises Macero,2017-08 This book is a complete guide to building a Microservices Architecture supported by an application that evolves from a small monolith to a microservice ecosystem The author follows a very pragmatic approach to explain the benefits of using this type of software architecture instead of keeping the reader distracted with just theoretical concepts A practical evolving example This book in contrast to guides available on the Internet is based on a realistic evolving example Short guides can t focus on the multiple aspects of building microservices and normally don t fit into more complex scenarios Besides trying to combine these short guides to make up a real application means facing a lot of gaps in the big puzzle of microservices Guides are too shallow to help you building something real On the other hand most books about microservices are sometimes too focused on theory Some books are usually on the other side of the spectrum They explain topics like Domain Driven Design Event Sourcing Service Discovery API Gateway Centralized Logging Continuous Deployment DevOps Reactive Systems Circuit Breaker patterns etc But that might be overwhelming where to start Is it needed to use all of these concepts in a microservice architecture How to put them in practice Those are the questions answered in this book supported with code examples from the included application Covered topics This book covers some of the state of the art techniques in computer programming from a practical point of view Microservices with Spring Boot Event Driven Architecture and Messaging with RabbitMQ RESTful services with Spring Service Discovery with Eureka and Load Balancing with Ribbon Routing requests with Zuul as your API Gateway Test Driven Development write your tests first End to End Tests for an Event Driven Architecture using Cucumber Continuous Integration and Deployment On the other hand this book also helps the reader to focus on what s important starting with the Minimum Viable Product but keeping the flexibility to evolve it

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Many Small Monoliths Microservices Vs Monolithic Introduction

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