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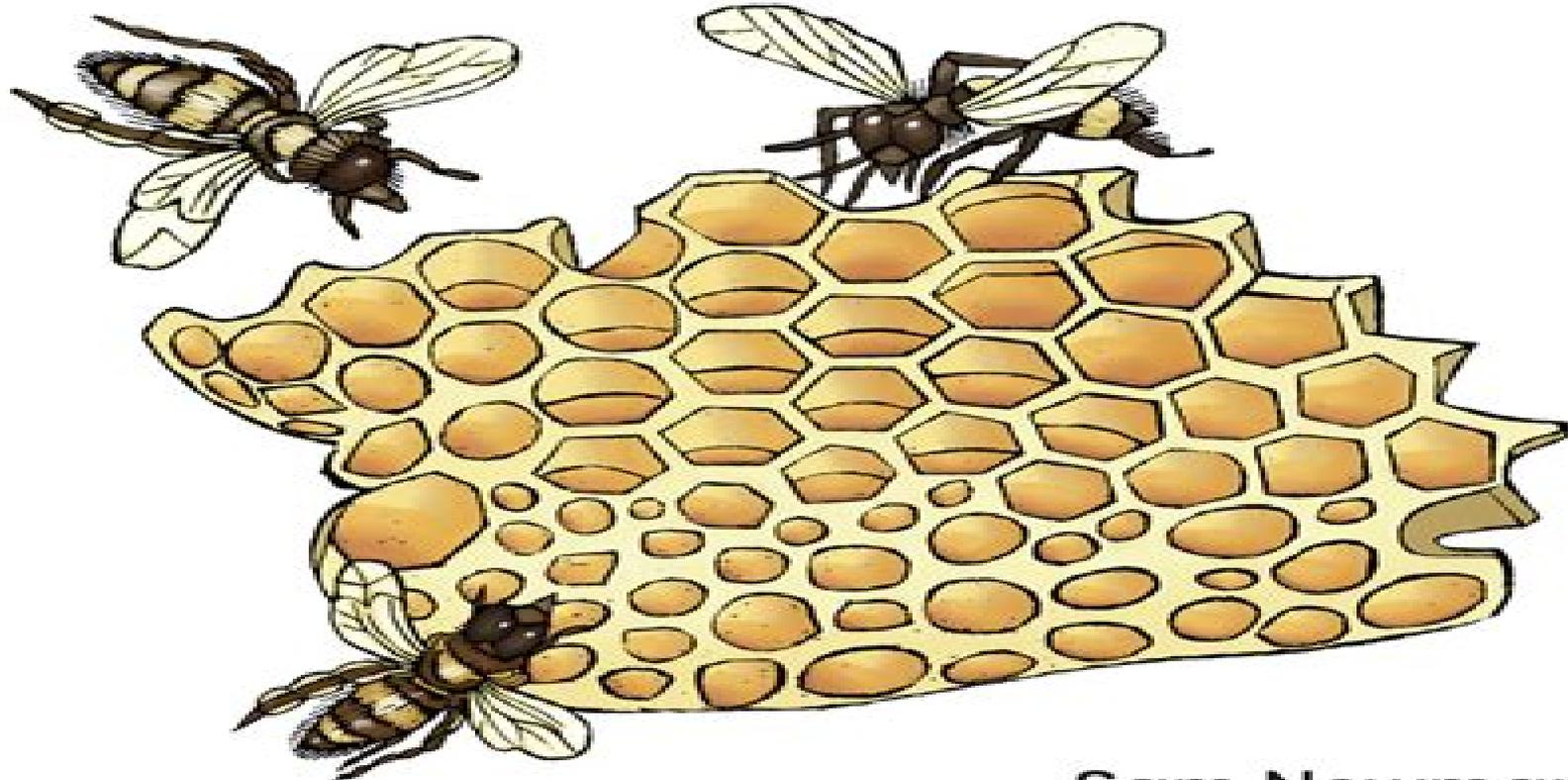
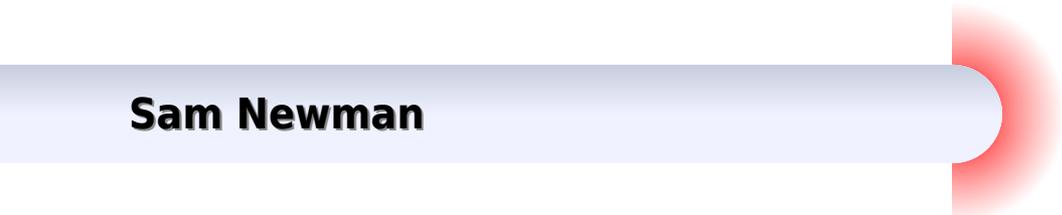# Building
Microservices

Designing Fine-Grained Systems

Sam Newman

Microservice Architecture Building Microservices With

Sam Newman

Microservice Architecture Building Microservices With:

Building Microservices Sam Newman,2015-02-02 Annotation Over the past 10 years distributed systems have become more fine grained From the large multi million line long monolithic applications we are now seeing the benefits of smaller self contained services Rather than heavy weight hard to change Service Oriented Architectures we are now seeing systems consisting of collaborating microservices Easier to change deploy and if required retire organizations which are in the right position to take advantage of them are yielding significant benefits This book takes an holistic view of the things you need to be cognizant of in order to pull this off It covers just enough understanding of technology architecture operations and organization to show you how to move towards finer grained systems **Microservice Architecture** Irakli Nadareishvili,Ronnie Mitra,Matt McLarty,Mike Amundsen,2016-07-18 Microservices can have a positive impact on your enterprise just ask Amazon and Netflix but you can fall into many traps if you don t approach them in the right way This practical guide covers the entire microservices landscape including the principles technologies and methodologies of this unique modular style of system building You ll learn about the experiences of organizations around the globe that have successfully adopted microservices In three parts this book explains how these services work and what it means to build an application the Microservices Way You ll explore a design based approach to microservice architecture with guidance for implementing various elements And you ll get a set of recipes and practices for meeting practical organizational and cultural challenges to microservice adoption Learn how microservices can help you drive business objectives Examine the principles practices and culture that define microservice architectures Explore a model for creating complex systems and a design process for building a microservice architecture Learn the fundamental design concepts for individual microservices Delve into the operational elements of a microservices architecture including containers and service discovery Discover how to handle the challenges of introducing microservice architecture in your organization 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 *Building Microservices with Go* Nic Jackson,2017-07-27 Your one stop guide to the common patterns and practices showing you how to apply these using the Go programming language About This Book This short concise and practical guide is packed with real world examples of building microservices with Go It is easy to read and will benefit smaller teams who want to extend the functionality of their existing systems Using this practical approach will save your money in terms of maintaining a monolithic architecture and demonstrate capabilities in ease of use Who This Book Is For You should have a working knowledge of programming in Go including writing and compiling basic applications However no knowledge of RESTful architecture microservices or web services is expected If you are looking to apply techniques to your own projects taking your first steps into microservice architecture this book is for you What You Will Learn Plan a microservice architecture and design a microservice Write a microservice with a RESTful API and a database Understand the common idioms and common patterns in microservices architecture Leverage tools and automation that helps microservices become horizontally scalable Get a grounding in containerization with Docker and Docker Compose which will greatly accelerate your development lifecycle Manage and secure Microservices at scale with monitoring logging service discovery and automation Test microservices and integrate API tests in Go In Detail Microservice architecture is sweeping the world as the de facto pattern to build web based applications Golang is a language particularly well suited to building them Its strong community encouragement of idiomatic style and statically linked binary artifacts make integrating it with other technologies and managing microservices at scale consistent and intuitive This book will teach you the common patterns and practices showing you how to apply these using the Go programming language It will teach you the fundamental concepts of architectural design and RESTful communication and show you patterns that provide manageable code that is supportable in development and at scale in production We will provide you with examples on how to put these concepts and patterns into practice with Go Whether you are planning a new application or working in an existing monolith this book will explain and illustrate with practical examples how teams of all sizes can start solving problems with microservices It will help you understand Docker and Docker Compose and how it can be used to isolate microservice dependencies and build environments We finish off by showing you various techniques to monitor test and secure your microservices By the end you will know the benefits of system resilience of a microservice and the advantages of Go stack Style and approach The step by step tutorial focuses on building microservices Each chapter expands upon the previous one teaching you the main skills and techniques required to be a successful microservice practitioner **Building Microservices with Spring Boot** Engin Yöyen,2016-03 This book is designed to give you the complete picture of how you can build microservices with Spring Boot Existing book regarding microservice are helpful to grasp to concepts but there are no practical examples of how to accomplish it The objective of the book is to use Spring and

Spring Boot to show practical approaches as well a reference guide to Spring Boot The way we build software has changed dramatically The word cloud is everywhere Most software companies are either using available providers such as AWS Joyent Rackspace or trying to build their own private cloud The tendency of building big massive software is also changing now the trend is to build smaller software which does one thing and it does it well It is called microservices a small discrete isolated stateless lightweight application that can be deployed separately from other services that depend on it The architectural style which refers to an approach to structuring a single software application as a group of small services each running in its own process and communicating with lightweight mechanisms Spring as a mature framework does provide most of the necessary modules to accomplish what is needed to build a microservice architecture So as a developer you can add necessary modules wire it via dependency injection and start using it without changing the context With Spring you can connect relational or NoSQL datastore work with AMQP build your authentication and authorization use configuration management circuit breakers intelligent routing etc Most of the technologies you may need for developing microservices are provided via Spring The book will cover topics such as essentials Spring Boot HTTP programming Spring Cloud Config Service Discovery Client Side Load Balancing Distributed Messaging Asynchronous HTTP programming Routing API Gateways etc   **Building Microservices** Sam Newman,2015-02-17 Over the past 10 years distributed systems have become more fine grained From the large multi million line long monolithic applications we are now seeing the benefits of smaller self contained services Rather than heavy weight hard to change Service Oriented Architectures we are now seeing systems consisting of collaborating microservices Easier to change deploy and if required retire organizations which are in the right position to take advantage of them are yielding significant benefits This book takes an holistic view of the things you need to be cognizant of in order to pull this off It covers just enough understanding of technology architecture operations and organization to show you how to move towards finer grained systems   **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

Microservices: Up and Running Ronnie Mitra,Irakli Nadareishvili,2020-12-08 Microservices architectures offer great benefits faster change speeds better scalability and cleaner evolvable architectures But implementing your first Microservices architecture to get those rewards is difficult How do you quickly educate your team on all the technical details of execution to maximize your chances of success How do you survive the first year of bringing your microservices implementation to life How do you improve your execution Making the right implementation decisions is difficult and you don t have the luxury of time to find out if the decisions you are making are the right ones This book offers a prescriptive guide for building a Microservices architecture to combat that uncertainty Inside you will find a step by step implementation journey mapped out based on the techniques and architectures that have been proven to work for Microservices systems This book solves the following problems for users What does a good microservices project look like Are the decisions you re making for your project the right ones How do you come up with a good microservices design that fits your own context as quickly as possible Where should you spend time thinking designing and where should you just implement best practices

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

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 Designing and Building Solid Microservice Ecosystems Guillermo Leo Wrba,2023-05-12 It s not new to us that microservices are changing the way we conceive digital transformation as organizations embrace digital transformation Every day more and more companies are betting on microservice adoption and there is a strong reason for this business needs to evolve and change at a fast pace in order to adapt itself to satisfy a demanding 2 0 digital customer s experience in terms of overall service quality Ensuring that such a change occurs seamlessly and progressively is one of the goals for microservices and designing and building a solid microservice architecture is the way to guarantee that this happens from inception by observing principles best practices design patterns and reference models This book provides a comprehensive walkthrough across the different concepts frameworks methodologies and architecture building blocks that make up a microservice ecosystem and constitute a

reference architecture from which you can get to multiple sub architectures and implementations Being an architect you ll learn how to better design microservice led and event centric architectures in the right way from the early beginning by showcasing learned lessons best practices do s and don ts If you are starting your architecture career it s the right place to get introduced to concepts and methodologies that you will then grow over time as you acquire more experience If you are a developer but willing to jump into the exciting architecture world this can also be good reading however be warned that some basic architectural understandings and concepts need to be first incorporated before walking through the advanced concepts presented throughout this book This book requires you to have some minimal background around Docker and Microservices to better understand the more advanced concepts that are being explained **Building Modern SaaS Applications with C# and .NET** Andy Watt,2023-06-23 Embark on a tech tastic adventure and build Software as a Service SaaS applications using the Microsoft tech stack Purchase of the print or Kindle book includes a free PDF eBook Key Features Understand the core concepts of Software as a Service and their importance in building modern applications Build a wide array of key elements for SaaS applications using practical examples Learn to test deploy upgrade and maintain a SaaS application Book Description There are several concepts that must be mastered to deliver functional and efficient SaaS applications This book is perfect for developers and teams with experience in traditional application development looking to switch to SaaS and deliver slick and modern applications You ll start with a general overview of SaaS as a concept and learn with the help of an example throughout the book to bring life to the technical descriptions You ll use the Microsoft NET tech stack for development and C as the programming language to develop your desired SaaS application Delivering SaaS requires a deep understanding of all layers in the application stack As you progress you ll learn how to approach the database layer the API and the UI to confidently approach application development using the SaaS model Additionally you ll explore how to test deploy maintain and upgrade each component of the application By the end of this book you will be well equipped to approach all aspects of delivering software using the SaaS paradigm What you will learn Explore SaaS and understand its importance in modern application development Discover multi tenancy and its impact on design decisions for SaaS Build test and deploy a database API and UI for a SaaS application Approach authentication and authorization like a pro Scale a SaaS application Employ C and NET to build SaaS applications Who this book is for If you are a software developer with an interest in developing apps using the SaaS paradigm or a tech lead scrum master or a director and founder this book will help you understand how to build a SaaS application If you are a Java developer looking to start fresh with distributed systems this book is for you A basic understanding of Java Spring Spring Boot and Web services will help you get the most out of this book **Microservices Development Cookbook** Paul Osman,2018-08-31 Quickly learn and employ practical methods for developing microservices Key Features Get to grips with microservice architecture to build enterprise ready applications Adopt the best practices to find solutions to specific problems Monitor and manage your services in production

Book Description Microservices have become a popular way to build distributed systems that power modern web and mobile apps Deploying your application as a suite of independently deployable modular and scalable services has many benefits In this book you ll learn to employ microservices in order to make your application more fault tolerant and easier to scale and change Using an example driven approach Microservice Development Cookbook introduces you to the microservice architectural style You ll learn how to transition from a traditional monolithic application to a suite of small services that interact to provide smooth functionality to your client applications You ll also learn about the patterns used to organize services so you can optimize request handling and processing and see how to handle service to service interactions You ll then move on to understanding how to secure microservices and add monitoring in order to debug problems This book also covers fault tolerance and reliability patterns that help you use microservices to isolate failures in your applications By the end of the book you ll be able to work with a team to break a large monolithic codebase into independently deployable and scalable microservices You ll also study how to efficiently and effortlessly manage a microservice based architecture What you will learn Learn how to design microservice based systems Create services that fail without impacting users Monitor your services to perform debugging and create observable systems Manage the security of your services Create fast and reliable deployment pipelines Manage multiple environments for your services Simplify the local development of microservice based systems Who this book is for Microservice Development Cookbook is for developers who would like to build effective and scalable microservices Basic knowledge of the microservices architecture is assumed *Mastering Microservices with Java 9* Sourabh Sharma,2017-12-07 Master the art of implementing scalable microservices in your production environment with ease About This Book Use domain driven design to build microservices Use Spring Cloud to use Service Discovery and Registeration Use Kafka Avro and Spring Streams for implementing event based microservices Who This Book Is For This book is for Java developers who are familiar with the microservices architecture and now wants to take a deeper dive into effectively implementing microservices at an enterprise level A reasonable knowledge level and understanding of core microservice elements and applications is expected What You Will Learn Use domain driven design to design and implement microservices Secure microservices using Spring Security Learn to develop REST service development Deploy and test microservices Troubleshoot and debug the issues faced during development Learning best practices and common principals about microservices In Detail Microservices are the next big thing in designing scalable easy to maintain applications It not only makes app development easier but also offers great flexibility to utilize various resources optimally If you want to build an enterprise ready implementation of the microservices architecture then this is the book for you Starting off by understanding the core concepts and framework you will then focus on the high level design of large software projects You will gradually move on to setting up the development environment and configuring it before implementing continuous integration to deploy your microservice architecture Using Spring security you will secure microservices and test them

effectively using REST Java clients and other tools like RxJava 2 0 We ll show you the best patterns practices and common principals of microservice design and you ll learn to troubleshoot and debug the issues faced during development We ll show you how to design and implement reactive microservices Finally we ll show you how to migrate a monolithic application to microservices based application By the end of the book you will know how to build smaller lighter and faster services that can be implemented easily in a production environment Style and approach This book starts from the basics including environment setup and provides easy to follow steps to implement the sample project using microservices **Practical Cloud-Native Java Development with MicroProfile** Emily Jiang,Andrew McCright,John Alcorn,David Chan,Alasdair Nottingham,Eric Herness,2021-09-22 Written by leading MicroProfile experts this book provides you with best practices for building enterprise grade cloud native applications using MicroProfile 4 1 and running them on Open Liberty with Docker Kubernetes and Istio Key FeaturesApply your knowledge of MicroProfile APIs to develop cloud native applicationsUse MicroProfile Health to provide the startup liveness and readiness status of your enterprise applicationBuild an end to end stock trader project and containerize it to deploy to the cloud with Istio interactionBook Description In this cloud native era most applications are deployed in a cloud environment that is public private or a combination of both To ensure that your application performs well in the cloud you need to build an application that is cloud native MicroProfile is one of the most popular frameworks for building cloud native applications and fits well with Kubernetes As an open standard technology MicroProfile helps improve application portability across all of MicroProfile s implementations Practical Cloud Native Java Development with MicroProfile is a comprehensive guide that helps you explore the advanced features and use cases of a variety of Jakarta and MicroProfile specifications You ll start by learning how to develop a real world stock trader application and then move on to enhancing the application and adding day 2 operation considerations You ll gradually advance to packaging and deploying the application The book demonstrates the complete process of development through to deployment and concludes by showing you how to monitor the application s performance in the cloud By the end of this book you will master MicroProfile s latest features and be able to build fast and efficient cloud native applications What you will learnUnderstand best practices for applying the 12 Factor methodology while building cloud native applicationsCreate client server architecture using MicroProfile Rest Client and JAX RSConfigure your cloud native application using MicroProfile ConfigSecure your cloud native application with MicroProfile JWTBecome well versed with running your cloud native applications in Open LibertyGrasp MicroProfile Open Tracing and learn how to use Jaeger to view trace spansDeploy Docker containers to Kubernetes and understand how to use ConfigMap and Secrets from KubernetesWho this book is for This book is for Java application developers and architects looking to build efficient applications using an open standard framework that performs well in the cloud DevOps engineers who want to understand how cloud native applications work will also find this book useful A basic understanding of Java Docker Kubernetes and cloud is needed to get the most out of this book

Software Architecture. ECSA 2022 Tracks and Workshops Thais Batista,Tomáš Bureš,Claudia Raibulet,Henry Muccini,2023-07-15 This book constitutes the refereed proceedings of the tracks and workshops which complemented the 16th European Conference on Software Architecture ECSA 2022 held in Prague Czech Republic in September 2022 The 26 full papers presented together with 4 short papers and 2 tutorial papers in this volume were carefully reviewed and selected from 61 submissions Papers presented were accepted into the following tracks and workshops Industry track Tools and Demonstrations Track Doctoral Symposium Tutorials 8th International Workshop on Automotive System Software Architectures WASA 5th Context Aware Autonomous and Smart Architectures International Workshop CASA 6th International Workshop on Formal Approaches for Advanced Computing Systems FAACS 3rd Workshop on Systems Architectures and Solutions for Industry 4 0 SASI4 2nd International Workshop on Designing and Measuring Security in Software Architectures DeMeSSA 2nd International Workshop on Software Architecture and Machine Learning SAML 9th Workshop on Software Architecture Erosion and Architectural Consistency SAEroCon 2nd International Workshop on Mining Software Repositories for Software Architecture MSR4SA and 1st International Workshop on Digital Twin Architecture TwinArch **Designing Production-Grade and Large-Scale IoT Solutions** Mohamed Abdelaziz,2022-05-26 Get to grips with key IoT aspects along with modern trends architectures and technologies that support IoT solutions such as cloud computing modern app architecture paradigms and data analytics Key Features Understand the big picture of designing production grade IoT solutions from an industry expert Get up and running with the development and designing aspects of the Internet of Things Solve business problems specific to your domain using different IoT platforms and technologies Book DescriptionWith the rising demand for and recent enhancements in IoT a developer with sound knowledge of IoT is the need of the hour This book will help you design build and operate large scale E2E IoT solutions to transform your business and products increase revenue and reduce operational costs Starting with an overview of how IoT technologies can help you solve your business problems this book will be a useful guide to helping you implement end to end IoT solution architecture You ll learn to select IoT devices real time operating systems IoT Edge covering Edge location software and hardware and the best IoT connectivity for your IoT solution As you progress you ll work with IoT device management IoT data analytics IoT platforms and put these components to work as part of your IoT solution You ll also be able to build IoT backend cloud from scratch by leveraging the modern app architecture paradigms and cloud native technologies such as containers and microservices Finally you ll discover best practices for different operational excellence pillars including high availability resiliency reliability security cost optimization and high performance which should be applied for large scale production grade IoT solutions By the end of this IoT book you ll be confident in designing building and operating IoT solutions What you will learn Understand the detailed anatomy of IoT solutions and explore their building blocks Explore IoT connectivity options and protocols used in designing IoT solutions Understand the value of IoT platforms in building IoT solutions Explore real

time operating systems used in microcontrollers Automate device administration tasks with IoT device management Master different architecture paradigms and decisions in IoT solutions Build and gain insights from IoT analytics solutions Get an overview of IoT solution operational excellence pillars Who this book is for This book is for E2E solution architects systems and technical architects and IoT developers looking to design build and operate E2E IoT applications and solutions Basic knowledge of cloud computing software engineering and distributed system design will help you get the most out of this book

Microservices in Action Morgan Bruce,Paulo A Pereira,2018-10-03 The one and only book on implementing microservices with a real world cover to cover example you can relate to Christian Bach Swiss Re Microservices in Action is a practical book about building and deploying microservice based applications Written for developers and architects with a solid grasp of service oriented development it tackles the challenge of putting microservices into production Purchase of the print book includes a free eBook in PDF Kindle and ePub formats from Manning Publications About the Technology Invest your time in designing great applications improving infrastructure and making the most out of your dev teams Microservices are easier to write scale and maintain than traditional enterprise applications because they re built as a system of independent components Master a few important new patterns and processes and you ll be ready to develop deploy and run production quality microservices About the Book Microservices in Action teaches you how to write and maintain microservice based applications Created with day to day development in mind this informative guide immerses you in real world use cases from design to deployment You ll discover how microservices enable an efficient continuous delivery pipeline and explore examples using Kubernetes Docker and Google Container Engine What s inside An overview of microservice architecture Building a delivery pipeline Best practices for designing multi service transactions and queries Deploying with containers Monitoring your microservices About the Reader Written for intermediate developers familiar with enterprise architecture and cloud platforms like AWS and GCP About the Author Morgan Bruce and Paulo A Pereira are experienced engineering leaders They work daily with microservices in a production environment using the techniques detailed in this book Table of Contents Designing and running microservices Microservices at SimpleBank Architecture of a microservice application Designing new features Transactions and queries in microservices Designing reliable services Building a reusable microservice framework Deploying microservices Deployment with containers and schedulers Building a delivery pipeline for microservices Building a monitoring system Using logs and traces to understand behavior Building microservice teams PART 1 The lay of the land PART 2 Design PART 3 Deployment PART 4 Observability and ownership   *Mastering Spring 5.0* Ranga Rao Karanam,2017-06-28 Develop cloud native applications with microservices using Spring Boot Spring Cloud and Spring Cloud Data Flow About This Book Explore the new features and components in Spring Evolve towards micro services and cloud native applications Gain powerful insights into advanced concepts of Spring and Spring Boot to develop applications more effectively Understand the basics of Kotlin and use it to develop a quick service with Spring Boot Who This

Book Is For This book is for an experienced Java developer who knows the basics of Spring and wants to learn how to use Spring Boot to build applications and deploy them to the cloud What You Will Learn Explore the new features in Spring Framework 5 0 Build microservices with Spring Boot Get to know the advanced features of Spring Boot in order to effectively develop and monitor applications Use Spring Cloud to deploy and manage applications on the Cloud Understand Spring Data and Spring Cloud Data Flow Understand the basics of reactive programming Get to know the best practices when developing applications with the Spring Framework Create a new project using Kotlin and implement a couple of basic services with unit and integration testing In Detail Spring 5 0 is due to arrive with a myriad of new and exciting features that will change the way we ve used the framework so far This book will show you this evolution from solving the problems of testable applications to building distributed applications on the cloud The book begins with an insight into the new features in Spring 5 0 and shows you how to build an application using Spring MVC You will realize how application architectures have evolved from monoliths to those built around microservices You will then get a thorough understanding of how to build and extend microservices using Spring Boot You will also understand how to build and deploy Cloud Native microservices with Spring Cloud The advanced features of Spring Boot will be illustrated through powerful examples We will be introduced to a JVM language that s quickly gaining popularity Kotlin Also we will discuss how to set up a Kotlin project in Eclipse By the end of the book you will be equipped with the knowledge and best practices required to develop microservices with the Spring Framework Style and approach This book follows an end to end tutorial approach with lots of examples and sample applications covering the major building blocks of the Spring framework   Building Microservices with .NET Core 2.0 Gaurav Aroraa,2017-12-22 Architect your NET applications by breaking them into really small pieces microservices using this practical example based guide Key Features Start your microservices journey and get a broader perspective on microservices development using C 7 0 with NET Core 2 0 Build deploy and test microservices using ASP Net Core ASP NET Core API and Microsoft Azure Cloud Get the basics of reactive microservices Book Description The microservices architectural style promotes the development of complex applications as a suite of small services based on business capabilities This book will help you identify the appropriate service boundaries within your business We ll start by looking at what microservices are and their main characteristics Moving forward you will be introduced to real life application scenarios after assessing the current issues we will begin the journey of transforming this application by splitting it into a suite of microservices using C 7 0 with NET Core 2 0 You will identify service boundaries split the application into multiple microservices and define service contracts You will find out how to configure deploy and monitor microservices and configure scaling to allow the application to quickly adapt to increased demand in the future With an introduction to reactive microservices you ll strategically gain further value to keep your code base simple focusing on what is more important rather than on messy asynchronous calls What you will learn Get acquainted with Microsoft Azure Service Fabric Compare microservices with monolithic applications

and SOA Learn Docker and Azure API management Define a service interface and implement APIs using ASP NET Core 2 0 Integrate services using a synchronous approach via RESTful APIs with ASP NET Core 2 0 Implement microservices security using Azure Active Directory OpenID Connect and OAuth 2 0 Understand the operation and scaling of microservices in NET Core 2 0 Understand the key features of reactive microservices and implement them using reactive extensions Who this book is for This book is for NET Core developers who want to learn and understand the microservices architecture and implement it in their NET Core applications It s ideal for developers who are completely new to microservices or just have a theoretical understanding of this architectural approach and want to gain a practical perspective in order to better manage application complexities

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