HOW TO BUILD
MICROSERVICES

Top 10 Hacks To Modeling,
Integrating & Deploying
Microservices

THE BLOKEHEAD

How Build Microservices Integrating Deploying

Adam Bellemare

How Build Microservices Integrating Deploying:

How To Build Microservices: Top 10 Hacks To Modeling, Integrating & Deploying Microservices Scott Green,2015-10-23 This book is an exploration of microservices and how to build it It begins by explaining what they are so as to help the reader better understand them After reading this book you will know how and where microservices are used The following topics have been discussed in this book 1 Technology Heterogeneity Resilience Sealing and Deployment Hacks 1 and 2 2 Managing Complex Systems Hacks 3 and 4 3 Checklists Hack 5 4 Integration Hacks 6 to 10 5 And much much more Download your copy of How To Build Microservices by scrolling up and clicking Buy Now With 1 Click button   Building Event-Driven Microservices Adam Bellemare,2025-09-15 Event driven microservices offer an optimal approach to harnessing event streams reacting and responding to changes as they occur across your company With this fully revised and updated guide you ll learn how to apply the principles of event driven architecture to create event streams and build powerful microservice applications Author Adam Bellemare takes you through the process of creating event driven microservice architectures from first principles all the way to advanced applications Covering events event streams and microservices this book will give you powerful and reusable patterns for sharing and using important data all across your organization The theory and principles of event driven architectures How to design and build event driven microservice architectures to deliver exceptional business value Event and event stream design patterns including schemas and evolution through time Microservice application patterns both as singular services and as a collection of multiple services Tooling and techniques to get your event driven microservice ecosystem off the ground and set yourself up for success Integrating event driven applications into your existing architecture   *Microservices Architecture For Beginners* Joseph Joyner,2015-08-25 Microservices or very commonly known as Mircoservices Architecture are used for describing the methods and resources that are used for architecture specification achievement What are the steps followed or how the arrangement of all these resources is done and the design techniques that have been employed for achieving the performance goal and target cost is called as Microservices architecture

Building Microservices with Node.js Daniel Kapexhiu,2024-05-03 Venture into microservices with Node js uncovering step by step roadmaps insightful demonstrations and cutting edge techniques to build robust web applications Key Features Explore microservices architecture and implement it using Node js for robust web applications Follow clear practical examples and real world use cases to apply your knowledge and build your skills Excel in the world of software development and tackle complex challenges with confidence Purchase of the print or Kindle book includes a free PDF eBook Book Description Immerse yourself in the world of microservices with this guide to migration from a monolithic architecture to microservices With this book you ll acquire a deep understanding of microservices architecture and apply it confidently in your web application projects As you progress you ll be guided through the process of creating a simple application and incorporating the Node js framework into it along with its commonly used libraries You ll learn how the framework operates

how to configure it and how to develop handlers for the web framework and explore how to deploy your application to a production server Get to grips with the intricacies of JavaScript and Node js and find out how to approach microservices in Node js implement them effectively and integrate RESTful APIs Gain insights into service to service authentication and authorization and learn how to work with databases and caching as well as with monitoring and logging in microservices with Node js By the end of this microservices book you ll be able to develop a web app using the Node js framework configure it extend it using libraries available for this framework and launch it using best practices What you will learn Design domain oriented microservices using domain driven design DDD Understand collaboration techniques for inter microservice communication and learn how to design an API gateway Automate microservice integration and deployment Split a monolith safely into microservices and understand how to test microservices effectively Use and implement microservices in Kubernetes and Docker environments Get to grips with best practices for maintaining microservices at scale Who this book is for This book is for backend developers full stack developers software architects and frontend developers who want to venture into the world of backend development and extend their capabilities A fundamental understanding of the JavaScript ecosystem will be helpful but not necessary as this book will cover the essentials of backend development JavaScript programming and Node js   Ultimate Microservices with RabbitMQ: Master Microservices Architecture and RabbitMQ Integration to Build Scalable, Resilient Systems, and to Drive Innovation in Software Development Peter Morlion,2024-05-27 Learn the ins and outs of a RabbitMQ enabled microservices system Key Features Discover the fundamental principles of microservices and their organizational impact Develop a deep understanding of messaging and RabbitMQ within microservices architecture Acquire the expertise to seamlessly integrate and maximize the benefits of microservices with RabbitMQ for creating of robust and high performing systems Book DescriptionEmbark on a transformative journey into the world of microservices architecture with Ultimate Microservices with RabbitMQ This comprehensive resource equips you with the knowledge and tools needed to design deploy and manage scalable microservices architectures using RabbitMQ as a messaging backbone From laying the groundwork with foundational concepts to implementing advanced techniques this book covers everything you need to know to build resilient and high performing microservices based systems It dives into the intricacies of RabbitMQ messaging to leverage its capabilities to facilitate communication and data exchange across distributed systems You will discover best practices for designing scalable and fault tolerant microservices architectures and gain insights into effective integration strategies The book will help you learn to combine microservices and RabbitMQ for designing building and maintaining robust architectures that leverage the strengths of both paradigms By the end of this book you will be primed to navigate the complexities of modern software development with confidence driving innovation and efficiency in professional endeavors What you will learn Gain a solid understanding of microservices fundamentals and their organizational impact Explore various messaging paradigms

and their application within RabbitMQ Implement RabbitMQ as a message broker within your microservices architecture Understand the prerequisites for maintaining a resilient microservices setup with RabbitMQ Explore upcoming trends in message driven microservices architectures Table of Contents1 An Introduction to Microservices 2 A Deeper Look Into Microservices 3 An Introduction to RabbitMQ 4 RabbitMQ Use Cases 5 Designing a Microservices Architecture With RabbitMQ 6 Running A Microservices Architecture With RabbitMQ 7 The Future of Microservices 8 The Future of RabbitMQ Index   **DevOps and Micro Services** Mr.Chitra Sabapathy Ranganathan,2023-10-23 Mr Chitra Sabapathy Ranganathan Associate Vice President Mphasis Corporation Arizona USA   **Building Microservices with Micronaut®** Nirmal Singh,Zack Dawood,The Micronaut® Foundation,2021-09-30 Explore different aspects of building modular microservices such as development testing maintenance and deployment using the Micronaut framework Key FeaturesLearn how to build scalable fast and resilient microservices with this concise guideExplore the many advantages of using reflection free compile time dependency injections and aspect oriented programmingBuild cloud native applications easily with the Micronaut frameworkBook Description The open source Micronaut framework is a JVM based toolkit designed to create microservices quickly and easily This book will help full stack and Java developers build modular high performing and reactive microservice based apps using the Micronaut framework You ll start by building microservices and learning about the core components such as ahead of time compilation reflection less dependency injection and reactive baked in HTTP clients and servers Next you will work on a real time microservice application and learn how to integrate Micronaut projects with different kinds of relational and non relational databases You ll also learn how to employ different security mechanisms to safeguard your microservices and integrate microservices using event driven architecture in the Apache Kafka ecosystem As you advance you ll get to grips with automated testing and popular testing tools The book will help you understand how you can easily handle microservice concerns in Micronaut projects such as service discovery API documentation distributed configuration management fallbacks and circuit breakers Finally you ll explore the deployment and maintenance aspects of microservices and get up to speed with the Internet of Things IoT using the Framework By the end of this book you ll be able to build test deploy and maintain your own microservice apps using the framework What you will learnUnderstand why the Micronaut framework is best suited for building microservicesBuild web endpoints and services in the Micronaut frameworkSafeguard microservices using Session JWT and OAuth in Micronaut projectsGet to grips with event driven architecture in Micronaut applicationsDiscover how to automate testing at various levels using built in tools and testing frameworksDeploy your microservices to containers and cloud platformsBecome well versed with distributed logging tracing and monitoring in Micronaut projectsGet hands on with the IoT using Alexa and the Micronaut frameworkWho this book is for This book is for developers who have been building microservices on traditional frameworks such as Spring Boot and are looking for a faster alternative Intermediate level knowledge of Java programming and implementing web services development in Java is

required   Building Microservices with .NET Core Gaurav Kumar Aroraa,Lalit Kale,Kanwar Manish,2017-06-14 Architect your NET applications by breaking them into really small pieces microservices using this practical example based guide About This Book Start your microservices journey and understand a broader perspective of microservices development Build deploy and test microservices using ASP Net MVC Web API and Microsoft Azure Cloud Get started with reactive microservices and understand the fundamentals behind it Who This Book Is For This book is for NET Core developers who want to learn and understand microservices architecture and implement it in their NET Core applications It s ideal for developers who are completely new to microservices or have just a theoretical understanding of this architectural approach and want to gain a practical perspective in order to better manage application complexity What You Will Learn Compare microservices with monolithic applications and SOA Identify the appropriate service boundaries by mapping them to the relevant bounded contexts Define the service interface and implement the APIs using ASP NET Web API Integrate the services via synchronous and asynchronous mechanisms Implement microservices security using Azure Active Directory OpenID Connect and OAuth 2 0 Understand the operations and scaling of microservices in NET Core Understand the testing pyramid and implement consumer driven contract using pact net core Understand what the key features of reactive microservices are and implement them using reactive extension In Detail Microservices is an architectural style that 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 the business We ll start by looking at what microservices are and what the main characteristics are Moving forward you will be introduced to real life application scenarios and after assessing the current issues we will begin the journey of transforming this application by splitting it into a suite of microservices You will identify the service boundaries split the application into multiple microservices and define the 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 the reactive microservices you strategically gain further value to keep your code base simple focusing on what is more important rather than the messy asynchronous calls Style and approach This guide serves as a stepping stone that helps NET Core developers in their microservices architecture This book provides just enough theory to understand the concepts and apply the examples   **Hands-On Microservices with JavaScript** Tural Suleymani,2024-12-20 Build test and deploy scalable cloud ready apps using modern tools and solve complex real world problems with case studies Key Features Learn microservices architecture for scalable cloud ready applications Build hands on projects with Node js Express js NestJS and Kafka Master CI CD pipelines security and monitoring for robust microservices Purchase of the print or Kindle book includes a free PDF eBook Book DescriptionKeep up with the ever evolving web development landscape by mastering JavaScript microservices with expert guidance from Tural Suleymani a full stack software engineer architect software development teacher Microsoft MVP and three time C Corner MVP He distills

over a decade of experience crafting high performance scalable solutions into this guide He ll walk you through the fundamentals of microservices providing a solid foundation in architecture design principles and the necessary tools and technologies From beginners to seasoned developers this book offers a clear pathway to mastering microservices with JavaScript With the help of hands on tasks that simulate real world scenarios you ll learn how to build reliable and scalable microservices You ll explore synchronous and asynchronous communication real time data streaming and how to secure and monitor your services The book s emphasis on a design first approach ensures that your microservices are maintainable and future proof Detailed case studies from industry experts will enhance your learning experience and provide practical insights into building microservices in production environments By the end of this book you ll be ready to create cloud ready high performing microservices using cutting edge JavaScript frameworks and tools and tackle real world challenges ensuring your applications are secure and efficient What you will learn Understand synchronous and asynchronous communication between microservices Discover how to decouple microservices using Message Broker Build real time data streaming microservices with JS frameworks Understand logging and monitoring in microservices Explore common architectural patterns for microservices Cover microservices with unit and integration tests Apply CI CD for microservices and learn to Dockerize and deploy them Who this book is for This book is for backend developers full stack developers software architects and frontend developers who want to venture into the world of microservices A fundamental understanding of the JavaScript ecosystem will be helpful but not necessary as this book will cover the essentials of microservices architecture JavaScript programming and modern frameworks and tools for building scalable maintainable applications   Professional Scrum Developer I Certification Prep Guide : 350 Questions & Answers CloudRoar Consulting Services,2025-08-15 Prepare for the Professional Scrum Developer I exam with 350 questions and answers covering Scrum principles Agile practices development processes collaboration testing and best practices Each question provides practical examples and explanations to ensure exam readiness Ideal for software developers and Scrum practitioners ScrumDeveloper ProfessionalScrum Agile DevelopmentProcesses Collaboration Testing BestPractices ExamPreparation TechCertifications ITCertifications CareerGrowth ProfessionalDevelopment ScrumSkills DeveloperSkills AgilePractices   **Spring Microservices in Action, Second Edition** John Carnell,Illary Huaylupo Sánchez,2021-06-29 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   *Building Serverless Microservices in Python* Richard Takashi Freeman,2019-03-29 A practical guide for developing end to end serverless microservices in Python for developers DevOps and architects Key FeaturesCreate a secure cost effective and scalable serverless data APIUse identity management and authentication for a user specific and secure web applicationGo beyond traditional web hosting to explore the full range of cloud hosting optionsBook Description Over the last few years there has been a massive shift from monolithic architecture to microservices thanks to their small and independent deployments that allow increased flexibility and agile delivery Traditionally virtual machines and containers were the principal mediums for deploying microservices but they involved a lot of operational effort configuration and maintenance More recently serverless computing has gained popularity due to its built in autoscaling abilities reduced operational costs and increased productivity Building Serverless Microservices in Python begins by introducing you to serverless microservice structures You will then learn how to create your first serverless data API and test your microservice Moving on you ll delve into data management and work with serverless patterns Finally the book introduces you to the importance of securing microservices By the end of the book you will have gained the skills you need to combine microservices with serverless computing making their deployment much easier thanks to the cloud provider managing the servers and capacity planning What you will learnDiscover what microservices offer above and beyond other architecturesCreate a serverless application with AWSGain secure access to data

and resourcesRun tests on your configuration and codeCreate a highly available serverless microservice data APIBuild deploy and run your serverless configuration and codeWho this book is for If you are a developer with basic knowledge of Python and want to learn how to build test deploy and secure microservices then this book is for you No prior knowledge of building microservices is required   *Spring Microservices in Action* John Carnell,Kalpit Patel,2017-06-11 Summary Spring Microservices in Action teaches you how to build microservice based applications using Java and the Spring platform Purchase of the print book includes a free eBook in PDF Kindle and ePub formats from Manning Publications About the technology Microservices break up your code into small distributed and independent services that require careful forethought and design Fortunately Spring Boot and Spring Cloud simplify your microservice applications just as the Spring Framework simplifies enterprise Java development Spring Boot removes the boilerplate code involved with writing a REST based service Spring Cloud provides a suite of tools for the discovery routing and deployment of microservices to the enterprise and the cloud About the Book Spring Microservices in Action teaches you how to build microservice based applications using Java and the Spring platform You ll learn to do microservice design as you build and deploy your first Spring Cloud application Throughout the book carefully selected real life examples expose microservice based patterns for configuring routing scaling and deploying your services You ll see how Spring s intuitive tooling can help augment and refactor existing applications with micro services What s Inside Core microservice design principles Managing configuration with Spring Cloud Config Client side resiliency with Spring Hystrix and Ribbon Intelligent routing using Netflix Zuul Deploying Spring Cloud applications About the Reader This book is written for developers with Java and Spring experience About the Author John Carnell is a senior cloud engineer with twenty years of experience in Java Table of contents Welcome to the cloud Spring Building microservices with Spring Boot Controlling your configuration with Spring Cloud configuration server On service discovery When bad things happen client resiliency patterns with Spring Cloud and Netflix Hystrix Service routing with Spring Cloud and Zuul Securing your microservices Event driven architecture with Spring Cloud Stream Distributed tracing with Spring Cloud Sleuth and Zipkin Deploying your microservices   **Building and Delivering Microservices on AWS** Amar Deep Singh,2023-05-30 Quickly deliver microservices with CodeCommit CodeBuild CodeDeploy and CodePipeline using software architecture patterns microservices and release pipelines Purchase of the print or Kindle book includes a free PDF eBook Key Features Learn software architecture and microservices design patterns from an AWS certified professional architect Develop microservices using Spring Boot and automate the release using CodePipeline Deploy microservices using CodeDeploy to EC2 instances containers and on premises Book DescriptionReliable automation is crucial for any code change going into production A release pipeline enables you to deliver features for your users efficiently and promptly AWS CodePipeline with its powerful integration and automation capabilities of building testing and deployment offers a unique solution to common software delivery issues such as outages during deployment a lack of

standard delivery mechanisms and challenges faced in creating sustainable pipelines You ll begin by developing a Java microservice and using AWS services such as CodeCommit CodeArtifact and CodeGuru to manage and review the source code You ll then learn to use the AWS CodeBuild service to build code and deploy it to AWS infrastructure and container services using the CodeDeploy service As you advance you ll find out how to provision cloud infrastructure using CloudFormation templates and Terraform The concluding chapters will show you how to combine all these AWS services to create a reliable and automated CodePipeline for delivering microservices from source code check in to deployment without any downtime Finally you ll discover how to integrate AWS CodePipeline with third party services such as Bitbucket Blazemeter Snyk and Jenkins By the end of this microservices book you ll have gained the hands on skills to build release pipelines for your applications What you will learn Understand the basics of architecture patterns and microservice development Get to grips with the continuous integration and continuous delivery of microservices Delve into automated infrastructure provisioning with CloudFormation and Terraform Explore CodeCommit CodeBuild CodeDeploy and CodePipeline services Get familiarized with automated code reviews and profiling using CodeGuru Grasp AWS Lambda function basics and automated deployment using CodePipeline Understand Docker basics and automated deployment to ECS and EKS Explore the CodePipeline integration with Jenkins Pipeline and on premises deployment Who this book is for This book is for software architects DevOps engineers SREs and cloud engineers who want to learn more about automating their release pipelines for modifying features and releasing updates Prior knowledge of AWS Cloud Java Maven and Git will help you to get the most out of this book   Building Reliable Microservices with Dapr Richard Johnson,2025-06-14 Building Reliable Microservices with Dapr Building Reliable Microservices with Dapr is a comprehensive guide tailored for developers and architects seeking to construct robust scalable and secure cloud native systems using modern microservice principles The book starts by addressing the inherent challenges of distributed architectures such as reliability observability configuration management and security and outlines time tested patterns and solutions for building resilient services Readers will gain a foundational understanding of microservice architectural patterns service boundaries advanced monitoring and zero trust security setting the stage for creating dependable systems in complex environments The book delves deep into the Dapr Distributed Application Runtime ecosystem systematically breaking down its architectural building blocks including service invocation state management pub sub messaging bindings and secret handling Core features like Dapr s sidecar model polyglot interoperability and runtime extensibility are explored followed by real world patterns for reliable service to service communication seamless service mesh integration distributed tracing transactional state operations and secure event driven microservices Detailed chapters walk readers through building event driven workflows integrating legacy systems enforcing stringent security controls managing secrets auditing regulatory compliance and proactive observability and incident response Bringing these concepts together the book covers deployment at scale

operational best practices with Kubernetes automating CI CD pipelines performing chaos engineering optimizing performance and cost and ensuring safe rollouts Advanced chapters showcase how to extend Dapr with custom components adopt multi tenant and multi cloud strategies integrate AI ML workloads and prepare for future trends in distributed systems Through in depth case studies and hands on best practices Building Reliable Microservices with Dapr equips professionals with the knowledge and confidence to architect deploy and operate state of the art microservice solutions in production ready environments **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 **Mastering AtomSphere Integration: Design, Deployment, and Best Practices for Scalable Cloud Data Flows** William E Clark,2025-08-24 Mastering AtomSphere Integration Design Deployment and Best Practices for Scalable Cloud Data Flows equips architects developers and IT leaders with deep practical knowledge of the AtomSphere platform The book demystifies its microservices based architecture and multitenant model and presents proven deployment

topologies and resilient design patterns to build high availability fault tolerant integration fabrics across cloud hybrid and on premises environments Bridging theory and practice it delivers advanced techniques for designing integration flows end to end data transformation and repeatable engineering practices Detailed chapters cover the connector framework and custom connector development transaction and state management sophisticated error handling and retry strategies and performance tuning empowering teams to produce maintainable testable and scalable integrations Operational excellence is emphasized through DevOps driven lifecycle management deep observability and enterprise grade security founded on zero trust principles The book also provides comprehensive guidance on data governance and compliance including GDPR and HIPAA API management event driven orchestration automation and integration with major SaaS ERP and CRM platforms Rich with reusable patterns real world case studies and practical checklists for continuous improvement this is the essential reference for building and governing mission critical integration at scale **Clean Code with C#** Jason Alls,2023-12-22 Enhance your programming skills through code reviews TDD and BDD implementation and API design to overcome code inefficiency redundancy and other issues arising from bad code Key Features Write code that seamlessly integrates with other systems while maintaining well defined software boundaries Understand how coding principles and standards elevate software quality Learn how to avoid common errors while implementing concurrency or threading Purchase of the print or Kindle book includes a free PDF eBook Book DescriptionTraditionally associated with Windows desktop applications and game development C has expanded into web cloud and mobile development However despite its extensive coding features professionals often encounter issues with efficiency scalability and maintainability due to poor code Clean Code in C guides you in identifying and resolving these problems using coding best practices This book starts by comparing good and bad code to emphasize the importance of coding standards principles and methodologies It then covers code reviews unit testing and test driven development and addresses cross cutting concerns As you advance through the chapters you ll discover programming best practices for objects data structures exception handling and other aspects of writing C computer programs You ll also explore API design and code quality enhancement tools while studying examples of poor coding practices to understand what to avoid By the end of this clean code book you ll have the developed the skills needed to apply industry approved coding practices to write clean readable extendable and maintainable C code What you will learn Master the art of writing evolvable and adaptable code Implement the fail pass refactor methodology using a sample C console application Develop custom C exceptions that provide meaningful information Identify low quality C code in need of refactoring Improve code performance using profiling and refactoring tools Create efficient and bug free code using functional programming techniques Write cross platform code using MAUI Develop cloud deployable microservices for versatile applications Who this book is for This coding book is for proficient C developers team leads senior software engineers and software architects who want to improve the efficiency of their legacy systems A strong understanding of C

programming is assumed   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   *Crafting Scalable Web Solutions: Harnessing Go and Docker for Modern Development* Peter Jones,2025-01-11 Immerse yourself in the cutting edge world of web development with Crafting Scalable Web Solutions Harnessing Go and Docker for Modern Development This definitive guide equips software developers with the tools to create powerful efficient and scalable web applications Through a perfect blend of theory and hands on examples you ll learn how to leverage the simplicity of Go and the containerization power of Docker to build high performing and secure applications tailored for today s web From setting up your development environment to mastering the creation of RESTful APIs from understanding Docker basics to orchestrating containers for microservices this book covers every crucial aspect Discover how to implement Continuous Integration and Deployment workflows monitor application performance and apply best practices to optimize both speed and security Whether you re new to Go and Docker or looking to refine your expertise this comprehensive resource guides you smoothly through the complexities of modern web application development Elevate your development skills and take your projects to unprecedented heights with Crafting Scalable Web Solutions Harnessing Go and Docker for Modern Development

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How Build Microservices Integrating Deploying Introduction

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