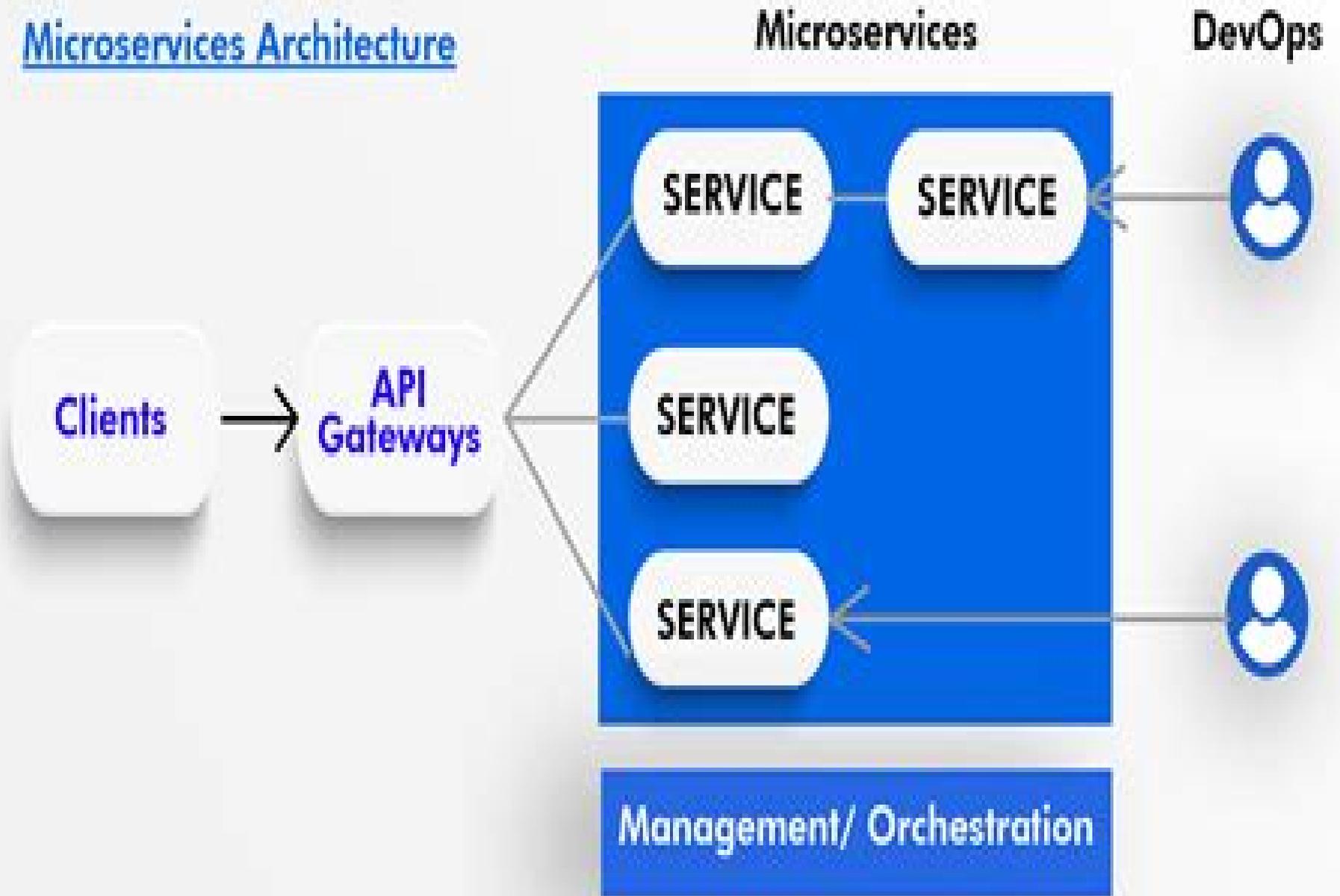Microservices Architecture

Building Microservices With Asp Net Core E

Kevin Hoffman

Building Microservices With Asp Net Core E:

Building Microservices with ASP.NET Core Kevin Hoffman,2017-08-31 Chapter 7 Building an ASP NET Core Web Application ASP NET Core Basics Adding ASP NET MVC Middleware Adding a Controller Adding a Model Adding a View Invoking REST APIs from JavaScript Building Cloud Native Web Applications API First Configuration Logging Session State Data Protection Backing Services Environment Parity Port Binding Telemetry Authentication and Authorization Summary Chapter 8 Service Discovery Refresher on Cloud Native Factors External Configuration Backing Services Introducing Netflix Eureka Discovering and Advertising ASP NET Core Services **Building Microservices with ASP.NET Core** Kevin Hoffman,2017 **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 **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 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 *Building Microservices with ASP.NET Core* Kevin Hoffman,2017-08-31 At a time when nearly every vertical regardless of domain seems to need software running in the cloud to make money microservices provide the agility and drastically reduced time to market you require This hands on guide shows you how to create test compile and deploy microservices using the ASP NET Core free and open source framework Along the way you ll pick up good practical habits for building powerful and robust services Building microservices isn t about learning a specific framework or programming language it s about building applications that thrive in elastically scaling environments that don t have host affinity and that can start and stop at a moment s notice This practical book guides you through the process Learn test driven and API first development concepts Communicate with other services by creating and consuming backing services such as databases and queues Build a microservice that depends on an external data source Learn about event sourcing the event centric approach to persistence Use ASP NET Core to build web applications designed to thrive in the cloud Build a service that consumes or is consumed by other services Create services and applications that accept external configuration Explore ways to secure ASP NET Core microservices and applications *Practical Microservices with Dapr and .NET* Davide Bedin,Mark Russinovich,2022-11-11 Use the innovative highly portable event driven distributed application runtime to simplify building resilient and scalable microservices for cloud and edge applications Purchase of the print or Kindle book includes a free eBook in the PDF format Key FeaturesBuild resilient stateless and stateful microservice applications that run on the cloud and edgeOvercome common issues in distributed systems such as low latency and scaling using any language and frameworkLearn how to expose and operate Dapr applications with multiple optionsBook Description This second edition will help you get to grips with microservice architectures and how to manage application complexities with Dapr in no time You ll understand how Dapr simplifies development while allowing you to work with multiple languages and platforms Following a C sample you ll understand how Dapr s runtime building blocks and software development kits SDKs help you to simplify the creation of resilient and portable microservices Dapr provides an event driven runtime that supports the essential features

you need for building microservices including service invocation state management and publish subscribe messaging You ll explore all of those in addition to various other advanced features with this practical guide to learning Dapr With a focus on deploying the Dapr sample application to an Azure Kubernetes Service cluster and to the Azure Container Apps serverless platform you ll see how to expose the Dapr application with NGINX YARP and Azure API Management By the end of this book you ll be able to write microservices easily by implementing industry best practices to solve problems related to distributed systems What you will learnUse Dapr to create services invoking them directly and via pub subDiscover best practices for working with microservice architecturesLeverage the actor model to orchestrate data and behaviorExpose API built with Dapr applications via NGINX and Azure API ManagementUse Azure Kubernetes Service to deploy a sample applicationMonitor Dapr applications using Zipkin Prometheus and GrafanaScale and load test Dapr applications on KubernetesGet to grips with Azure Container Apps as you combine Dapr with a serverless platformWho this book is for This book is for developers looking to explore and implement microservices architectures in Dapr applications using NET examples Whether you are new to microservices or have knowledge of this architectural approach and want to get hands on experience using Dapr you ll find this book useful Familiarity with NET will help you to understand the C samples and code snippets used in the book **ECPPM 2021 - eWork and eBusiness in Architecture, Engineering and Construction** Vitaly Semenov,Raimar J Scherer,2021-07-25 eWork and eBusiness in Architecture Engineering and Construction 2021 collects the papers presented at the 13th European Conference on Product and Process Modelling ECPPM 2021 Moscow 5 7 May 2021 The contributions cover a wide spectrum of thematic areas that hold great promise towards the advancement of research and technological development targeted at the digitalization of the AEC FM Architecture Engineering Construction and Facilities Management domains High quality contributions are devoted to critically important problems that arise including Information and Knowledge Management Semantic Web and Linked Data Communication and Collaboration Technologies Software Interoperability BIM Servers and Product Lifecycle Management Systems Digital Twins and Cyber Physical Systems Sensors and Internet of Things Big Data Artificial and Augmented Intelligence in AEC Construction Management 5D nD Modelling and Planning Building Performance Simulation Contract Cost and Risk Management Safety and Quality Sustainable Buildings and Urban Environments Smart Buildings and Cities BIM Standardization Implementation and Adoption Regulatory and Legal Aspects BIM Education and Training Industrialized Production Smart Products and Services Over the past quarter century the biennial ECPPM conference series as the oldest BIM conference has provided researchers and practitioners with a unique platform to present and discuss the latest developments regarding emerging BIM technologies and complementary issues for their adoption in the AEC FM industry **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   *Microservices For . NET* Soumya Mukherjee,2017-07-31 Architect your NET applications by breaking them into really small pieces microservices using this practical example based guideAbout This Book This book will show you the basics of microservices and when you should consider this architectural style This book will help you understand how to implement separate services using the C ASP NETMVC Web API and more You ll learn to integrate services using ASP NET Web API and Azure Service BusWho This Book Is ForThis book is for NET developers who are familiar with NET framework and now want to learn how to implement microservices architecture in their NET 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 complexityWhat You Will Learn Compare microservices with Monolithic 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 service security policies using Azure Active Directory OpenId Connect and OAuth Configure Azure Diagnostics and automatic scaling policies in AzureIn DetailMicroservices 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 domain to ensure high cohesion and to define the correct service interfaces to promote loose coupling We ll start by looking at what microservices are what the main characteristics are and how they compare with Monolithic and SOA approaches Next we ll briefly go through the benefits of using this style the challenges to consider and the prerequisites to succeed when engaging in this approach Moving forward you ll be introduced to a real life application implemented initially as a Monolith that is currently struggling to cope with increasing user demand and complexity After assessing the current issues we will begin the journey of transforming this application by splitting it into a suite of microservices You ll identify the business domain boundaries as a reference for our service boundaries split the application into multiple services and define the service contracts You ll be able to choose the appropriate integration techniques set up an automated infrastructure to handle testing and deployment and implement appropriate security policies to keep our services safe from unauthorized access You ll find out how to configure and implement monitoring to ensure the health of our services and configuring scaling to allow our application to quickly adapt to increased demand in the future

    Microservices in .NET Core Christian Horsdal Gammelgaard,2017-02-03 Summary Microservices in NET Core provides a complete guide to building microservice applications After a crystal clear introduction to the microservices architectural style the book will teach you practical development skills in that style using OWIN and Nancy Purchase of the print book includes a free eBook in PDF Kindle and ePub formats from Manning Publications About the Technology Microservice applications are built by connecting single capability autonomous components that communicate via APIs These systems can be challenging to develop because they demand clearly defined interfaces and reliable infrastructure Fortunately for NET developers OWIN the Open Web Interface for NET and the Nancy web framework help minimize plumbing code and simplify the task of building microservice based applications About the Book Microservices in NET Core provides a complete guide to building microservice applications After a crystal clear introduction to the microservices architectural style the book will teach you practical development skills in that style using OWIN and Nancy You ll design and build individual services in C and learn how to compose them into a simple but functional application back end Along the way you ll address production and operations concerns like monitoring logging and security What s Inside Design robust and ops friendly services Build HTTP APIs with Nancy Expose events via feeds with Nancy Use OWIN middleware for plumbing About the Reader This book is written for C developers No previous experience with microservices required About the Author Christian Horsdal Gammelgaard is a Nancy committer and a Microsoft MVP Table of Contents PART 1 GETTING STARTED WITH MICROSERVICES Microservices at a glance A basic shopping cart microservice PART 2 BUILDING MICROSERVICES

Identifying and scoping microservices Microservice collaboration Data ownership and data storage Designing for robustness Writing tests for microservices PART 3 HANDLING CROSS CUTTING CONCERNS BUILDINGA REUSABLE MICROSERVICE PLATFORM Introducing OWIN writing and testing OWINmiddleware Cross cutting concerns monitoring and logging Securing microservice to microservicecommunicatio n Building a reusable microservice platform PART 4 BUILDING APPLICATIONS Creating applications over microservices **Microservices Using ASP. NET Core** Akhil Mittal,2019-03-22 A handbook to get familiar with the Microservices concept and developing microservices using ASP NET Core This is a small book to cover the topic of microservices using a practical approach Section 1 The Concept makes you familiar with the concept of the Microservices This section explains what are microservices the architecture of microservices the difference between monolithic and microservices This section builds a deep understanding of microservices concept and architecture which is very important before you start development on microservices Section 2 Docker section three of the book demonstrates the development of microservices and running microservices in separate instances at the same time One of the instances would be running in a docker container This section demonstrates the pre requisites of having the microservice running in Docker and Docker installation Section 3 Microservice using ASP NET Core this section will train you on how to create a microservice using ASP NET Core This section is a step by step guide to create a microservice using ASP Net Core and Entity Framework Core and deploy and run the microservice **Microservices by Example** Biswa Pujarini Mohapatra,Baishakhi Banerjee,Gaurav Aroraa,2019-01-24 A book with lot of practical and architectural styles for Microservices using NET Core DESCRIPTION This book predominately covers Microservices architecture with real world example which can help professionals on case adoption of this technology Following the trend of modularity in real world the idea behind Microservice by Examples is to allow developers to build their applications from various independent components which can be easily changed removed or upgraded Also it is relevant now because of enterprises are moving towards DevOps Modernisation this book will emphasise on containers and Dockers as well KEY FEATURES Understand core concept of Microservices Understand various Microservices design patterns Build microservices application using real world examples Deployment of microservices using Docker Microservices Orchestration using Azure Service Fabric Azure DevOps CI CD using MSBuild Understand the concept of API Management Authentication Authorization using JWT token for Microservices Integrating Microservices in Angular 6 0 Single Page Application Dos and don ts during integration Ensuring End to end testing WHAT WILL YOU LEARN Microservices and its Architecture Designing the microservice application layer Hands on Micro services development of Online Hotel Booking App Deployment of Microservices for App Modernization at Scale with Docker Service Orchestration of Microservices using Azure Service Fabric Integrating various components Hands on Integration with API Management Testing Microservices WHO THIS BOOK IS FOR This book is for NET Core developers who are new to microservices and want to learn understand the microservices architecture Table of Contents 1 An

introduction to Microservices 2 Micro services Architecture 3 Designing the microservice application layer 4 Hands on Micro services development of Online Hotel Booking App 5 Deployment of Microservices for App Modernization at Scale with Docker 6 Service Orchestration of Microservices using Azure Service Fabric 7 Integrating various components 8 Hands on Integration with API Management 9 Testing Microservices 10 Extending application with logging 11 What is next

Microservices Design Patterns in .NET Trevoir Williams,2023-01-13 Learn to be deliberate and intentional in your design technology and pattern choices when developing an application using a microservices architecture Key Features Tackle common design problems when developing a microservices application using NET Core Explore applying S O L I D development principles in developing a stable microservice application Use your knowledge to solve common microservice application design challenges Book DescriptionAre you a developer who needs to fully understand the different patterns and benefits that they bring to designing microservices If yes then this book is for you Microservices Design Patterns in NET will help you appreciate the various microservice design concerns and strategies that can be used to navigate them Making a microservice based app is no easy feat and there are many concerns that need to be addressed As you progress through the chapters of this guide you ll dive headfirst into the problems that come packed with this architectural approach and then explore the design patterns that address these problems You ll also learn how to be deliberate and intentional in your architectural design to overcome major considerations in building microservices By the end of this book you ll be able to apply critical thinking and clean coding principles when creating a microservices application using NET Core What you will learn Use Domain Driven Design principles in your microservice design Leverage patterns like event sourcing database per service and asynchronous communication Build resilient web services and mitigate failures and outages Ensure data consistency in distributed systems Leverage industry standard technology to design a robust distributed application Find out how to secure a microservices designed application Use containers to handle lightweight microservice application deployment Who this book is for If you are a NET developer senior developer software architect or DevOps engineer who wants to explore the pros and cons intricacies and overall implementation of microservice architecture then this book is for you You ll also get plenty of useful insights if you re seeking to expand your knowledge of different design patterns and supporting technologies Basic experience with application and API development with NET Core 2 and C will help you get the most out of this book   Building RESTful Web Services with .NET Core Gaurav Aroraa,Tadit Dash,2018-05-31 Building Complete E commerce Shopping Cart Application Key Features Follow best practices and explore techniques such as clustering and caching to achieve a reactive scalable web service Leverage the NET Framework to quickly implement RESTful endpoints Learn to implement a client library for a RESTful web service using ASP NET Core Book Description REST is an architectural style that tackles the challenges of building scalable web services In today s connected world APIs have taken a central role on the web APIs provide the fabric through which systems interact and REST has become synonymous

with APIs The depth breadth and ease of use of ASP NET Core makes it a breeze for developers to work with for building robust web APIs This book takes you through the design of RESTful web services and leverages the ASP NET Core framework to implement these services This book begins by introducing you to the basics of the philosophy behind REST You ll go through the steps of designing and implementing an enterprise grade RESTful web service This book takes a practical approach that you can apply to your own circumstances This book brings forth the power of the latest NET Core release working with MVC Later you will learn about the use of the framework to explore approaches to tackle resilience security and scalability concerns You will explore the steps to improve the performance of your applications You ll also learn techniques to deal with security in web APIs and discover how to implement unit and integration test strategies By the end of the book you will have a complete understanding of Building a client for RESTful web services along with some scaling techniques What you will learn Add basic authentication to your RESTful API Create a Carts Controller and Orders Controller to manage and process Orders Intercept HTTP requests and responses by building your own middleware Test service calls using Postman and Advanced REST Client Secure your data application using annotations Who this book is for This book is intended for those who want to learn to build RESTful web services with the latest NET Core Framework To make best use of the code samples included in the book you should have a basic knowledge of C and NET Core   An An Atypical ASP.NET Core 5 Design Patterns Guide Carl-Hugo Marcotte,2020-12-31 A NET developer s guide to crafting robust maintainable and flexible web apps by leveraging C 9 and NET 5 features and component scale and application scale design patterns Key FeaturesApply software design patterns effectively starting small and progressing to cloud scaleDiscover modern application architectures such as vertical slice clean architecture and event driven microservicesExplore ASP NET design patterns from options to full stack web development using BlazorBook Description Design patterns are a set of solutions to many of the common problems occurring in software development Knowledge of these design patterns helps developers and professionals to craft software solutions of any scale ASP NET Core 5 Design Patterns starts by exploring basic design patterns architectural principles dependency injection and other ASP NET Core mechanisms You ll explore the component scale as you discover patterns oriented toward small chunks of the software and then move to application scale patterns and techniques to understand higher level patterns and how to structure the application as a whole The book covers a range of significant GoF Gangs of Four design patterns such as strategy singleton decorator facade and composite The chapters are organized based on scale and topics allowing you to start small and build on a strong base the same way that you would develop a program With the help of use cases the book will show you how to combine design patterns to display alternate usage and help you feel comfortable working with a variety of design patterns Finally you ll advance to the client side to connect the dots and make ASP NET Core a viable full stack alternative By the end of the book you ll be able to mix and match design patterns and have learned how to think about architecture and how it works What you will learnApply the

SOLID principles for building flexible and maintainable softwareGet to grips with NET 5 dependency injectionWork with GoF design patterns such as strategy decorator and compositeExplore the MVC patterns for designing web APIs and web applications using RazorDiscover layering techniques and tenets of clean architectureBecome familiar with CQRS and vertical slice architecture as an alternative to layeringUnderstand microservices what they are and what they are notBuild ASP NET UI from server side to client side BlazorWho this book is for This design patterns book is for intermediate level software and web developers with some knowledge of NET who want to write flexible maintainable and robust code for building scalable web applications Knowledge of C programming and an understanding of web concepts like HTTP is necessary   *Understanding Microservices with .NET* Sepehr Pakbaz,2025-12-26 DESCRIPTION Microservices let teams ship faster and scale independently but they add complexity in design data and operations This book shows how to build cloud ready services with modern NET and ASP NET Core using containers and Kubernetes grounded in real patterns and trade offs for developers architects and DevOps engineers The book begins by establishing the core principles of microservices detailing when and how to apply powerful design patterns like domain driven design DDD Saga CQRS and Circuit Breaker for resilience You will move on to hands on development building a full e commerce application with services for Catalog Basket and Ordering and implementing asynchronous communication using MassTransit and RabbitMQ for reliable transactions The book then transitions to essential operational maturity covering centralized security with IdentityServer4 testing containerization with Docker building strong CI CD pipelines and advanced deployment to Kubernetes using Helm and Terraform GitOps The final section ensures your services run flawlessly by teaching you scaling HPA VPA deep observability with Prometheus and future trends like agentic AI microservices By the end you will model bounded contexts choose the right sync async protocols apply resiliency patterns secure and version APIs automate delivery run on Kubernetes and instrument your system confidently shipping scalable reliable NET microservices WHAT YOU WILL LEARN Build fast NET Web APIs and gRPC endpoints Add resiliency with retries circuit breakers and timeouts Secure microservices using OAuth2 OIDC and JWT tokens Automate CI CD GitOps and blue green Kubernetes releases safely Design robust microservices using DDD Saga CQRS and MassTransit RabbitMQ patterns Achieve deep observability using OpenTelemetry Prometheus Grafana and ELK stack WHO THIS BOOK IS FOR This book is for NET developers backend engineers solution architects DevOps SREs and technical leads who are new to microservices or modernizing monoliths It suits beginner to mid level practitioners and senior engineers seeking a pragmatic end to end playbook for designing building securing deploying and operating cloud native services on NET TABLE OF CONTENTS 1 Introduction to Microservices Architecture 2 When to Use Microservices 3 Designing Microservices for Distributed Systems 4 Designing Robust Microservices 5 Leveraging NET for Microservices Development 6 Microservices Architecture for a Typical E commerce 7 Developing the Catalog Microservice 8 Creating the Basket API Microservice 9 Building the Ordering Microservice 10

Developing Shipping and Handling Microservices 11 Implementing Security Across Microservices 12 Containerizing Microservices with Docker 13 Strategies for Testing and Test driven Development 14 Deployment Patterns for Microservices 15 Continuous Integration and Continuous Deployment 16 Infrastructure as Code and GitOps 17 Deploying with Kubernetes 18 Scaling Microservices with Kubernetes 19 Monitoring and Logging Microservices 20 Real world Examples and Case Studies 21 Challenges and Best Practices 22 Conclusion and Future Trends   **Building Microservices** Ted Beacon,2024-04-18 Dive into the world of building scalable efficient and robust applications with Building Microservices with NET Core and Docker This expertly crafted guide is designed for software developers architects and IT professionals seeking to harness the power of microservices architecture alongside the efficiency of NET Core and the agility of Docker Whether you re a seasoned NET developer or new to the realm of microservices this book provides the knowledge and skills necessary to develop containerize and deploy microservices based applications with confidence Starting with the fundamentals you ll explore the core concepts of microservices and NET Core gradually progressing to more advanced topics such as microservice design development testing and security Learn how to containerize NET microservices with Docker orchestrate them with Docker Compose and Kubernetes and ensure their security monitoring and logging for seamless operation Building Microservices with NET Core and Docker stands out with its practical approach blending in depth tutorials best practices and real world examples By the end of this book you ll be equipped to design and deploy resilient microservices that scale effortlessly adapt quickly to change and meet the demands of modern software development Embrace the microservices revolution and elevate your NET applications to new heights   **Pro Microservices in .NET 6** Sean Whitesell,Rob Richardson,Matthew D. Groves,2022-01-16 Know the fundamentals of creating and deploying microservices using NET 6 and gain insight from prescriptive guidance in this book on the when and why to incorporate them The microservices architecture is a way of distributing process workloads to independent applications This distribution allows for the independent applications to scale and evolve separately It also enables developers to dismantle large applications into smaller easier to maintain scalable parts While the return is valuable and the concept straightforward applying it to an application is far more complicated Where do you start How do you find the optimal dividing point for your app and strategically how should your app be parceled out into separate services Pro Microservices in NET 6 will introduce you to all that and more The authors get you started with an overview of microservices NET 6 event storming and domain driven design You will use that foundational information to build a reference application throughout the book From there you will create your first microservice using NET 6 that you can deploy into Docker and Azure Kubernetes Service You will also learn about communication styles decentralizing data and testing microservices Finally you will learn about logging metrics tracing and use that information for debugging What You Will Learn Build a foundation of basic microservices architecture design Follow an example of using event storming and domain driven design to understand the monolithic application modified for

microservices Understand via detailed commands how Docker is used to containerize applications Get an overview of creating microservices from a monolithic application Call microservices using RPC and messaging communication styles with MassTransit Comprehend decentralizing data and handling distributed transactions Use Azure Kubernetes Service to host and scale your microservices Know the methods to make your microservices more robust Discover testing techniques for RPC and messaging communication styles Apply the applications you build for actual use Practice cross cutting concerns such as logging metrics and tracing Who This Book Is For Developers and software architects Readers should have basic familiarity with Visual Studio and experience with NET ASP NET Core and C *.NET 10 Microservices Architecture* Ethan Cole,2025-12-22 NET 10 Microservices Architecture Build Master Systems Using ASP NET Core 10 Zero Allocation Native AOT gRPC and Cloud Ready Patterns Modern software systems demand speed resilience scalability and cloud readiness With the arrival of NET 10 developers can now build microservices that start faster consume fewer resources communicate efficiently and scale seamlessly across distributed environments This book is your comprehensive practical roadmap to mastering that future Designed for intermediate to advanced engineers architects and backend professionals this guide walks you step by step through building high performance enterprise grade microservices using the newest capabilities of ASP NET Core 10 From domain driven architecture to zero allocation patterns cloud native communication event driven systems and Kubernetes deployment you will learn how to engineer services that run efficiently even under extreme load This is not a beginner skim or a theoretical overview It is an end to end engineering handbook built around modern patterns real system designs production grade strategies and performance first thinking What You Will Learn Architect and build microservices the right way Model domains boundaries and service responsibilities using clean modular patterns Design cloud optimized APIs and service intercommunication strategies Deploy and scale on modern cloud platforms Build optimized containers using NET 10 s new image tools Deploy and operate microservices on Kubernetes and service meshes Automate environments with CI CD IaC and progressive delivery Put it all together with a real world case study Architect a complete microservice system from scratch Build APIs gRPC components data pipelines and resilience layers Deploy the entire platform using best practices for performance and reliability Why This Book Stands Out Covers ALL modern NET 10 capabilities in real world context Provides production grade patterns not academic examples Balances architecture performance engineering security and DevOps Written with clarity precision and practical expertise Designed for readers who want depth not fluff Who This Book Is For NET developers upgrading to NET 10 Backend engineers building service oriented platforms Cloud developers targeting Kubernetes or serverless environments Software architects designing modern distributed systems Engineers who want to think and build like performance focused professionals

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Building Microservices With Asp Net Core E Introduction

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