Microservices Architecture

Clients → API Gateways

Microservices

SERVICE — SERVICE

SERVICE

SERVICE

Management/ Orchestration

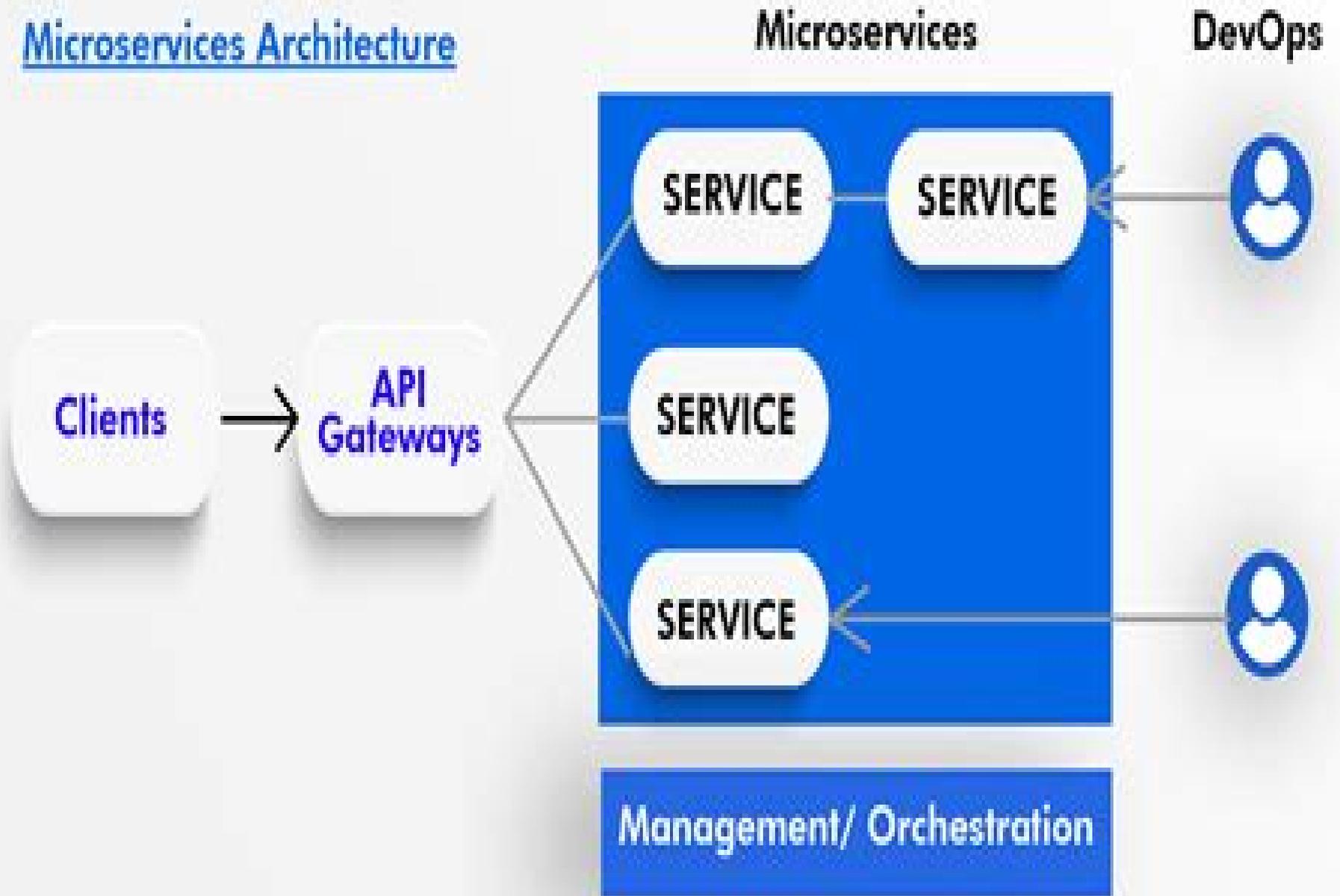**DevOps**

[Building Microservices With Asp Net Core Free](#)

Arnaud Weil

Building Microservices With Asp Net Core Free:

    Building Microservices with ASP.NET Core Kevin Hoffman,2017   *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 .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 **Pro Microservices in .NET 10** Sean Whitesell,Rob Richardson,2025-11-09 Learn how to design build test deploy and monitor microservices using NET 10 Microservices is a pattern of separating software into small reusable components to solve specific problems Each microservice can be independently built deployed and scaled This pattern provides enterprise grade durability and scale to meet complex business goals and customer needs in enterprise systems While the return is valuable and the concept straightforward applying it to an enterprise development effort is far more complicated Where do you start How do you find the seams between the components And once you have all the services how do you deploy and scale them to meet the durability and performance needs of the organization Pro Microservices in NET 10 will introduce you to all that and more The authors get you started with an overview of microservices and other development patterns event storming domain driven design and the options for developing in ASP NET You will use that foundational information to build a reference application throughout the book exploring both synchronous messaging with HTTP gRPC and asynchronous messaging with a service bus From there you will create your first microservice using C and NET 10 test it using unit and integration tests and package it into a Docker container You ll deploy the container to various Azure services including Kubernetes Azure Container Apps App Service Azure Functions and KEDA You will also learn about communication styles decentralizing data and testing microservices Finally you will learn how to keep services healthy using OpenTelemetry for logging Aspire for local development and Azure Application Insights for production 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 Learn about ASP NET hosting options including MVC Razor Pages Web API and Minimal APIs Call microservices using RPC and messaging communication styles via HTTP and gRPC Learn about asynchronous communication using an enterprise service bus Comprehend decentralizing data and handling distributed transactions Understand via detailed commands how Docker is used to containerize applications Learn to deploy microservices to Kubernetes Azure Container Apps App Services and Azure Functions Leverage OpenTelemetry to

make your microservices more robust Who This Book Is For This book is for professional developers and software architects looking to level up their skills Readers should have basic familiarity with Visual Studio or VS Code and experience with NET ASP NET Core and C New to This Edition In this new and updated volume the authors explore new features from NET 10 and C 14 that launched in November 2025 making it easier than ever to design architect build test and deploy microservices These enhancements include testing patterns Docker Kubernetes Azure deployment YARP and Aspire **Hands-On Mobile Development with .NET Core** Can Bilgin,2019-05-31 Develop native applications for multiple mobile and desktop platforms including but not limited to iOS Android and UWP with the Xamarin framework and Xamarin Forms Key FeaturesUnderstand NET Core and its cross platform development philosophy Build Android iOS and Windows mobile applications with C NET Core and Azure Cloud ServicesBring Artificial Intelligence capabilities into your mobile applications with Azure AIBook Description NET Core is the general umbrella term used for Microsoft s cross platform toolset Xamarin used for developing mobile applications is one of the app model implementations for NET Core infrastructure In this book you will learn how to design architect and develop highly attractive maintainable efficient and robust mobile applications for multiple platforms including iOS Android and UWP with the toolset provided by Microsoft using Xamarin NET Core and Azure Cloud Services This book will take you through various phases of application development with Xamarin from environment setup design and architecture to publishing using real world scenarios Throughout the book you will learn how to develop mobile apps using Xamarin Xamarin Forms and NET Standard implement a webbased backend composed of microservices with NET Core using various Azure services including but not limited to Azure App Services Azure Active Directory Notification Hub Logic Apps and Azure Functions Cognitive Services create data stores using popular database technologies such as Cosmos DB SQL and Realm Towards the end the book will help developers to set up an efficient and maintainable development pipeline to manage the application life cycle using Visual Studio App Center and Visual Studio Services What you will learnImplement native applications for multiple mobile and desktop platformsUnderstand and use various Azure Services with NET CoreMake use of architectural patterns designed for mobile and web applicationsUnderstand the basic Cosmos DB conceptsUnderstand how different app models can be used to create an app serviceExplore the Xamarin and Xamarin Forms UI suite with NET Core for building mobile applicationsWho this book is for This book is for mobile developers who wish to develop cross platform mobile applications Programming experience with C is required Some knowledge and understanding of core elements and cross platform application development with NET is required **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   Pragmatic Microservices with C# and Azure Christian Nagel,2024-05-31 Unlock efficiency in software development by learning microservices with C NET and Azure Key Features Benefit from step by step project based guidance on how to develop a full fledged microservices application Gain extensive knowledge of microservices by covering essential concepts tools and methodologies Use essential Microsoft Azure cloud native services and as alternatives for on premises environments Purchase of the print or Kindle book includes a free PDF eBook Book DescriptionPragmatic Microservices with C and Azure introduces NET Aspire for microservices focusing on defining an app model utilizing service discovery and integrating with Azure s native cloud services Written by a Microsoft MVP and seasoned software architect with over two decades of experience in NET this book will help you get to grips with robust service development using NET features like minimal APIs gRPC and SignalR for real time communication Aside from covering essential aspects of DevOps including testing methodologies such as unit integration and load testing you ll also explore logging and monitoring including OpenTelemetry using tools like Azure Log Analytics Application Insights Prometheus and Grafana You ll learn about asynchronous communication leveraging queues and events through Azure Event Hub and Apache Throughout the book theoretical aspects will be complemented by practical skills gained from building and deploying a fully functional microservices based application By the end you ll possess a deep understanding of microservices architecture hands on experience with various NET technologies and Azure services and the ability to design build deploy and manage microservices applications effectively in both on premises and cloud environments What you will learn Understand the advantages and practical applications of microservices Utilize the cloud ready NET Aspire stack and tools for efficient development Create robust RESTful APIs using ASP NET Core minimal APIs Implement seamless database integration with both relational and NoSQL databases Containerize microservices with Docker for better scalability and management Deploy microservices to the Azure Container Apps environment and Kubernetes for robust cloud solutions

Implement logging metrics and distributed tracing to ensure reliability and performance Who this book is for This book is for software developers architects and engineers who are interested in adopting microservices architecture using the NET framework and Microsoft Azure Both intermediate and advanced developers who have a foundational understanding of C ASP NET Core and cloud computing concepts will find this book helpful **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 **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 **Hands-On Microservices with C# 8 and .NET Core 3 - Third Edition** Gaurav Aroraa,Ed Price,Scott Hanselman,2020 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 app 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 **Learn Microservices - ASP.NET Core and Docker** Arnaud Weil,2018-08-31 You re a developer who knows nothing to Microservices Which is fine except that you need to start coding your next Microservices based application using ASP NET Core and Docker Don t worry I have you covered I ve been training hundreds of developers like you during 16 years and converted my experience into this book I know from experience teaching what takes more time to learn in Microservices and will spend time only where appropriate Plus this book is packed with exercises which build up into a full project you develop two interdependent Microservices each exposing a CRUD JSON API You publish them in a Docker repository and run them in Docker Read this book and you can code your Microservices within a week **.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 **Microservices in .NET, Second Edition** Christian Horsdal Gammelgaard,2021-11-23 Previous edition published as Microservices in NET Core Shelter Island Manning Publications Co 2017 **Microservices with ASP.NET Core 10 and Docker** Caelum Bitwright,2026-02-12 Are you struggling to keep your monolithic applications from collapsing under their own weight Do you find yourself lying awake wondering if your system will survive the next traffic spike or are you tired of spaghetti code making even the simplest updates a nightmare If you are ready to stop managing technical debt and start engineering high performance distributed systems that thrive in the cloud then you are in the right place The Future of Distributed Systems is Here Building microservices isn t just about splitting your code into smaller pieces it s about a fundamental shift in how we think about reliability scale and deployment As the industry moves toward more complex global demands the combination of ASP NET Core 10 and C 14 provides the most robust toolkit ever created for the modern developer Microservices with ASP NET Core 10 and Docker is a practical no nonsense guide designed to take you from the theory of distributed systems to the reality of production grade architecture This isn t a book of abstract concepts it s a hands on manual for building systems that are resilient by design and scalable by default We strip away the fluff to focus on the patterns that actually work in high stakes enterprise environments What You Will Find Inside The C 14 Advantage Use the latest language features to write cleaner faster and more expressive

microservices Containerization Mastery Practical strategies for Docker and orchestration that ensure your services run perfectly across any environment Resiliency Patterns Implementation guides for Service Mesh Circuit Breakers with Polly and Retries to keep your system up when others fail Event Driven Communication How to handle asynchronous messaging using RabbitMQ and Azure Service Bus without losing data Observability Monitoring Setting up OpenTelemetry logging and distributed tracing so you never have to guess what s happening in production How This Book Benefits You Future Proof Your Skills Master the absolute latest versions of the NET ecosystem Core 10 before the rest of the market catches up Architectural Clarity Gain the confidence to make high level design decisions that reduce costs and increase development speed Career Growth Transition from a coder to a system architect by understanding the big picture patterns of cloud native development Who Is This Book For This book is crafted for the Senior Developer the Software Architect and the Lead Engineer who is tired of surface level tutorials If you have a solid grasp of C and are ready to tackle the complexities of distributed logging eventual consistency and container orchestration this is your definitive guide Build Systems That Don t Break The software world moves fast and sticking to outdated monolithic patterns is a recipe for obsolescence It s time to build applications that are as ambitious as your goals Don t settle for good enough code when you can architect excellence Secure your copy of Microservices with ASP NET Core 10 and Docker today and start building the scalable resilient systems of tomorrow **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   **.NET Core in Action** Dustin Metzgar,2018-07-12 Summary NET Core in Action shows NET developers how to build professional software applications with NET Core Learn how to convert existing NET code to work on multiple platforms or how to start new projects with knowledge of the tools and capabilities of NET Core Purchase of the print book includes a free eBook in PDF Kindle and ePub formats from Manning Publications About the Technology NET Core is an open source framework that lets you write and run NET applications on Linux and Mac without giving up on Windows Built for everything from lightweight web apps to industrial strength distributed systems it s perfect for deploying NET servers to any cloud platform including AWS and GCP About the Book NET Core in Action introduces you to cross platform development with NET Core This hands on guide concentrates on new Core features as you walk through familiar tasks like testing logging data access and networking As you go you ll explore modern architectures like microservices and cloud data storage along with practical matters like performance profi ling localization and signing assemblies What s Inside Choosing the right tools Testing profiling and debugging Interacting with web services Converting existing projects to NET Core Creating and using NuGet packages About the Reader All examples are in C About the Author Dustin Metzgar is a seasoned developer and architect involved in numerous NET Core projects Dustin works for Microsoft Table of Contents Why NET Core Building your first NET Core applications How to build with NET Core Unit testing with xUnit Working with relational databases Simplify data access with object relational mappers Creating a microservice Debugging Performance and profiling Building world ready applications Multiple frameworks and runtimes Preparing for release appendix A Frameworks and runtimes appendix B xUnit command line options appendix C What s in the NET Standard Library appendix D NuGet cache locations   **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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