

## Building Microservices With Asp Net Core Develop Test And Deploy Cross Platform Services In The Cloud

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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

[Building Microservices with ASP.NET Core: Develop, Test ...](#)

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ASP.NET comes with built-in support for developing and deploying your microservices using Docker containers..NET includes APIs to easily consume microservices from any application you build, including mobile, desktop, games, web, and more. Explore our hands-on microservices tutorial

[Microservices with .NET and Docker containers](#)

Building Microservices Using ASP.NET Core Microservices are small, modular approach to create small services that can run on its own process. Traditional monolithic style application architecture has already coupled all their functionalities into one service. Please enable Javascript to correctly display the contents on Dot Net Tricks!

[Building Microservices Using ASP.NET Core](#)

ASP.NET Core is a collection of small, modular components that can be plugged into your application to let you build web applications and microservices. Within ASP.NET Core you will find APIs for routing, JSON serialization, and rigging up MVC controllers and views. Historically, ASP.NET came with the .NET Framework—you could not separate the two.

[1. ASP.NET Core Primer - Building Microservices with ASP ...](#)

Building microservices with ASP.NET Core (without MVC) There are several reasons why it makes sense to build super-lightweight HTTP services (or,

despite all the baggage the word brings, “microservices”). I do not need to go into all the operational or architectural benefits of such approach to system development, as it has been discussed a lot elsewhere.

### Building microservices with ASP.NET Core (without MVC ...

Creating an ASP.NET Core Application Solution. Open the Visual Studio and add a new project. Choose the application as ASP.NET Core Web Application and give it a meaningful name. Next, choose API as the type of the project and make sure that “Enable Docker Support” option is selected with OS type as Linux. The solution will look as shown below.

### Microservices Using ASP.NET Core - C# Corner

Become familiar with the building blocks for creating microservices with .NET. Prerequisites. None. Time to Complete. 15 minutes. Scenario. Create a simple service that returns a list of values, then run the service in a Docker container.

### .NET Tutorial | Your First Microservice

Implementing a simple CRUD microservice with ASP.NET Core. To implement a simple CRUD microservice using .NET Core and Visual Studio, you start by creating a simple ASP.NET Core Web API project (running on .NET Core so it can run on a Linux Docker host), as shown in Figure 6-6. Figure 6-6. Creating an ASP.NET Core Web API project in Visual Studio 2019

### Creating a simple data-driven CRUD microservice ...

EDITION v3.1 - Updated to ASP.NET Core 3.1. Refer changelog for the book updates and community contributions. This guide is an introduction to developing microservices-based applications and managing them using containers. It discusses architectural design and implementation approaches using .NET Core and Docker containers.

### .NET Microservices. Architecture for Containerized .NET ...

Building Microservices With ASP.NET Core. Microservices architectural pattern enables your applications to be highly automated, highly scalable, independent and evolving. The combination of microservices architecture and ASP.NET Core makes it easy to develop, test, and deploy isolated parts.

### Building Microservices With ASP.NET Core

Description. You will learn how to build Microservices on .Net platforms which used Asp.Net Web API, Docker, RabbitMQ, Ocelot API Gateway, MongoDB, Redis, SqlServer, Entity Framework Core, CQRS and Clean Architecture implementation. You will develop e-commerce modules over Product, Basket and Ordering microservices with NoSQL (MongoDB, Redis) and Relational databases (Sql Server) with communicating over RabbitMQ Event Driven Communication and using Ocelot API Gateway.

### Microservices Architecture and Implementation on .NET Core ...

ASP.NET Core Microservices will be responsible for a single "vertical" slice of an overall application/service architecture. ASP.NET Core Microservices will be responsible for a single "vertical" slice of an overall application/service architecture. Couchbase.com.

### ASP.NET Core Microservices: Getting Started | The ...

Samples and Utility Code for the O'Reilly Book, "Building Microservices with ASP.NET Core" Repositories Packages People Projects Dismiss Grow your team on GitHub. GitHub is home to over 50 million developers working together. Join them to grow your own development teams, manage permissions, and collaborate on projects.

### microservices-aspnetcore · GitHub

Building Ocelot API Gateway Microservice on .Net platforms which used Asp.Net Web Application, Docker, Ocelot. Test microservice with using Postman.

### Building Ocelot API Gateway Microservices with ASP.NET ...

☐☐ What you will learn: Introduction to Microservices Microservices Principles Need of Microservices Microservices Development Tools Integrating Ocelot ...

### Microservices Tutorial for Beginners | Building ...

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 with ASP.NET Core on Apple Books

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.

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

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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.

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 domain to ensure high cohesion and to define the correct service interfaces to promote loose coupling.

Microservices in .NET, Second Edition teaches you to build and deploy microservices using ASP.NET and Azure services. Summary In Microservices in .NET, Second Edition you will learn how to: Build scalable microservices that are reliable in production Optimize microservices for continuous delivery Design event-based collaboration between microservices Deploy microservices to Kubernetes Set up Kubernetes in Azure Microservices in .NET, Second Edition is a comprehensive guide to building microservice applications using the .NET stack. After a crystal-clear introduction to the microservices architectural style, it teaches you practical microservices development skills using ASP.NET. This second edition of the bestselling original has been revised with up-to-date tools for the .NET ecosystem, and more new coverage of scoping microservices and deploying to Kubernetes. Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications. About the technology Microservice architectures connect independent components that must work together as a system. Integrating new technologies like Docker and Kubernetes with Microsoft's familiar ASP.NET framework and Azure cloud platform enables .NET developers to create and manage microservices efficiently. About the book Microservices in .NET, Second Edition teaches you to build and deploy microservices using ASP.NET and Azure services. It lays out microservice architecture simply, and then guides you through several real-world projects, such as building an ecommerce shopping cart. In this fully revised edition, you'll learn about scoping microservices, deploying to Kubernetes, and operations concerns like monitoring, logging, and security. What's inside Optimize microservices for continuous delivery Design event-based collaboration between microservices Deploy microservices to Kubernetes Set up Kubernetes in Azure About the reader For C# developers. No experience with microservices required. About the author Christian Horsdal is an independent consultant with more than 20 years of experience building projects from large-scale microservice systems to tiny embedded systems. Table of Contents PART 1 GETTING STARTED WITH MICROSERVICES 1 Microservices at a glance 2 A basic shopping cart microservice 3 Deploying a microservice to Kubernetes PART 2 BUILDING MICROSERVICES 4 Identifying and scoping microservices 5 Microservice collaboration 6 Data ownership and data storage 7 Designing for robustness 8 Writing tests for microservices PART 3 HANDLING CROSS-CUTTING CONCERNS: BUILDING A REUSABLE MICROSERVICE PLATFORM 9 Cross-cutting concerns: Monitoring and logging 10 Securing microservice-to-microservice communication 11 Building a reusable microservice platform PART 4 BUILDING APPLICATIONS 12 Creating applications over microservices

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 are responsible for very tightly focused capabilities that are part of a more complex server-side software system. Microservices, when done well, are malleable, scalable, resilient, and allow a short lead time from start of implementation to deployment to production. When using microservices, the need for the technology to be lightweight and low ceremony grows, because creating new microservices needs to be quick and easy. OWIN is great for reuse of plumbing code and a lightweight web framework, like Nancy, is ideal. Microservices in .NET Core teaches readers how to build and deploy secure and operations-friendly microservices using Nancy. The book starts with an introduction to the microservices architectural style. Next, readers learn important practical aspects of developing microservices from simple core concepts to more sophisticated. Throughout the book, readers will see many code examples implementing it with lightweight .NET technologies' most prominently Nancy. By the end, they'll be able to quickly and easily build reliable and operations-friendly microservices using Nancy, OWIN and other open technologies. Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications.

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 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.

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