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~~Building Microservices Using
ASP.NET Core 3.1~~

~~Microservice Architecture
with ASP.NET Core~~

~~Microservices Tutorial for
Beginners | Building
Microservices with ASP.NET
Core
Converting a Monolithic
Application into
Microservices in ASP.NET
Core (The process I follow)
Edwin van Wijk Building
microservices with .NET Core
and Docker~~ Create .NET Core

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~~Microservice Using Best
Practices~~ **What are**

Microservices in ASP.NET

**Core (My understanding and
what I have learned so far)**

~~Architecting .NET~~

~~Microservices in a Docker
Ecosystem~~

GOTO 2019 • Clean

Architecture with ASP.NET

Core 3.0 • Jason Taylor

Microservices Architecture
and Step by Step

Implementation on .NET with

Quick DEMO **Microservices vs**

API | Differences Between

Microservice and API |

~~Edureka Building a CI/CD~~

~~pipeline for a containerized~~

~~ASP.NET Core 3.0 Web API~~

~~Building Microservices With~~

~~Docker and Kubernetes~~ **My**

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**Favorite new features in C#
9 (.NET 5) Asp.Net Core 3.1
microservice and API**

Versioning ~~Create Identity
Server 4 to implement Policy
Based Authorization in .Net
core to secure Microservice~~

DEPENDENCY INJECTION in

**ASP.NET Core | Getting
Started With ASP.NET Core**

Series *Design Microservice
Architectures the Right Way
OPTIONS PATTERN in ASP.NET
Core | Getting Started With
ASP.NET Core Series*

10 Tips for failing badly at

Microservices by David

Schmitz*How to build an API*

Gateway in ASP.NET Core

using Ocelot (Build API

Gateway in a few minutes)

Introduction to

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Microservices

Microservices with ASP.NET
Core

Create MicroServices in .Net
Core Building Reactive
Microservices with .NET Core
- Kevin Hoffman, Capital One

Creating a .NET 5
Microservice On .NET Live -
Intro to Microservice
Patterns for .NET Developers
Best Practices for Building
Async APIs with ASP.NET Core
Deploy a .NET Core API with
Docker (Step-by-Step) ~~APIs~~
~~and Microservices in ASP.NET~~
~~Core Today and Tomorrow~~
Glenn Condron **Building**
Microservices Asp Net Core
Build a microservice that
depends on an external data

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Chris; 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

Amazon.com: Building Microservices with ASP.NET Core ...

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

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external configuration;
Explore ways to secure
ASP.NET Core microservices
and applications

Building Microservices with ASP.NET Core: Develop, Test

...

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.

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Microservices Using ASP.NET Core - C# Corner

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

...

Building Microservices Using
ASP.NET Core Microservices

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Chris 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

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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 ...

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

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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 ...

Implement microservice monitoring using ASP.NET Core Healthchecks.

Healthchecks is an in-built middleware in ASP.NET Core for reporting the health of an application. Healthchecks can be exposed as one more endpoint in the application. Install healthchecks

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packages. Using package manager console install the required packages for healthchecks

Microservices with ASP.NET Core 3.1 | Pro Code Guide

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**

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Creating an ASP.NET Core Web API project in Visual Studio 2019. To create an ASP.NET Core Web API Project, first select an ASP.NET Core Web Application and then select the API type. After creating the project, you can implement your MVC controllers as you would in any other Web API project, using the Entity Framework API or other API.

Creating a simple data-driven CRUD microservice ...

Building a Microservice with ASP.NET Core Setting Up Dev Environment. Install Visual Studio 2017 with the Azure Development, ASP.NET and web development workloads.

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Chris
Creating Microservice Using
Azure Service Fabric. Launch
Visual Studio as an
administrator, create a new
project with...
Understanding ...

Building a Microservice with ASP.NET Core

Glenn is a PM on the .NET
Server team where he works
on ASP.NET Core Ryan is a
developer on the MVC team
where he works on all things
MVC and ASP.NET Core
related. Before joining
Microsoft Glenn was a
developer in Australia where
he worked on software for
various government
departments.

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**Getting Started with Tye to
build Microservices | Glenn**

...

Building Microservices with ASP.NET Core Note: This is an excerpt of Building Microservices with ASP.NET Core containing Chapters 3, 8, 9, 10. 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.

**Building Microservices with
ASP.NET Core - VMware**

ASP.NET Core has in-built assistance to create

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Microservices with Docker
-based containers, in the
form of APIs that swiftly
consume Microservices from
any type of app. Let us now
see in detail, the key
attributes of ASP.NET Core
development and its
preference for creating
Microservices: Key Qualities
Of ASP.NET Core For Building
Microservices

Building Microservices With ASP .NET Core - An Added ...

Purpose. 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

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Chris
a list of values, then run the service in a Docker container.

.NET Tutorial | Your First Microservice

?? What you will learn:

Introduction to
Microservices Microservices
Principles Need of
Microservices Microservices
Development Tools
Integrating Ocelot ...

Microservices Tutorial for Beginners | Building ...

To master implementing
Microservices we will build
an ASP.NET CORE project
called "Web Advertisements".
It will be based on
Microservice patterns and

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Chris will use Amazon Web services for security, messaging, storage, service discovery and so forth. I will code the project in the course so you will see how a Microservice is built, line by line!

Build Microservices with .NET Core & Amazon Web Services ...

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

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and applications. Show and
hide more.

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

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Chris 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

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Courcing, 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

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

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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

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Chapter 1 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

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Chris
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

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Chris 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

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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.

Architect your .NET applications by breaking them into really small pieces-microservices-using this practical, example-based guide

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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

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Chris 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 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

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Scaling policies in Azure
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

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Chris 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

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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.

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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

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Chris. 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

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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

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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

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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

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APPLICATIONS 12 Creating
applications over
microservices

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 are responsible for very tightly

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Chris 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

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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

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The print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications.

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

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Chris 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

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Chronic 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

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

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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

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Chris 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

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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

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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

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Of the architectural approach, this book will help you gain a practical perspective to manage application complexity efficiently.

This book predominately covers Microservices architecture with real-world example which can help professionals with ease of 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

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Chris can be easily changed,
removed or upgraded. Also,
it is relevant now because
of enterprises are moving
towards DevOps/
Modernization, this book
will emphasize on containers
and Dockers as well.

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