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Building Microservices With Asp Net Core E

Build enterprise-grade
microservice ecosystems with
intensive case studies using
C# Key Features Learn to

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build message-based
microservices Packed with
case studies to explain the
intricacies of large-scale
microservices Build
scalable, modular, and
robust architectures with C#
Book Description C# is a

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powerful language when it comes to building applications and software architecture using rich libraries and tools such as .NET. This book will harness the strength of C# in developing microservices

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architectures and applications. This book shows developers how to develop an enterprise-grade, event-driven, asynchronous, message-based microservice framework using C#, .NET, and various open source

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tools. We will discuss how to send and receive messages, how to design many types of microservice that are truly usable in a corporate environment. We will also dissect each case and explain the code, best

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practices, pros and cons,
and more. Through our
journey, we will use many
open source tools, and
create file monitors, a
machine learning
microservice, a quantitative
financial microservice that

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can handle bonds and credit default swaps, a deployment microservice to show you how to better manage your deployments, and memory, health status, and other microservices. By the end of this book, you will have a

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complete microservice ecosystem you can place into production or customize in no time. What you will learn Explore different open source tools within the context of designing microservices Learn to

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provide insulation to
exception-prone function
calls Build common messages
used between microservices
for communication Learn to
create a microservice using
our base class and interface
Design a quantitative

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financial machine
microservice Learn to design
a microservice that is
capable of using Blockchain
technology Who this book is
for C# developers, software
architects, and
professionals who want to

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master the art of designing the microservice architecture that is scalable based on environment. Developers should have a basic understanding of .NET application development

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using C# and Visual Studio
Microservices architectures
offer faster change speeds,
better scalability, and
cleaner, evolvable system
designs. But implementing
your first microservices
architecture is difficult.

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How do you make myriad choices, educate your team on all the technical details, and navigate the organization to a successful execution to maximize your chance of success? With this book, authors Ronnie Mitra

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and Irakli Nadareishvili provide step-by-step guidance for building an effective microservices architecture. Architects and engineers will follow an implementation journey based on techniques and

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architectures that have proven to work for microservices systems. You'll build an operating model, a microservices design, an infrastructure foundation, and two working microservices, then put

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those pieces together as a single implementation. For anyone tasked with building microservices or a microservices architecture, this guide is invaluable. Learn an effective and explicit end-to-end

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microservices system design
Define teams, their
responsibilities, and
guidelines for working
together Understand how to
slice a big application into
a collection of
microservices Examine how to

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isolate and embed data into
corresponding microservices
Build a simple yet powerful
CI/CD pipeline for
infrastructure changes Write
code for sample
microservices Deploy a
working microservices

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application on Amazon Web
Services

Building Microservices with
ASP.NET CoreDevelop, Test,
and Deploy Cross-Platform
Services in the

Cloud"O'Reilly Media, Inc."

Tapadiya takes a

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straightforward, hands-on approach to explain everything readers need to know from development to deployment and maintenance for this platform--all from a developer's perspective. Using C# as the primary

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language, and with plenty of code examples throughout, this book is an excellent way to learn.

ASP.NET Core 5 and Angular
Building Event-Driven
Microservices

Modern API Design with

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ASP.NET Core 2

Clean Architecture

Developing Cloud Native

Applications in Azure using

.NET Core

A Practical Guide Using C#

Hands-On Building, Testing,

and Deploying

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Build robust modern web applications using .NET 5, Entity Framework Core, and Angular 11 Key Features Updated with the latest features and additions in ASP.NET Core

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***5 and Angular 11 Design,
build, and deploy a Single
Page Application or
Progressive Web
App Adopt a full stack
approach to handle data
management, Web APIs,***

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***application design,
testing, SEO, security,
and deployment***
Book
***Description Learning full-
stack development calls
for knowledge of both
front-end and back-end***

Where To Download Building
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web development.

***ASP.NET Core 5 and
Angular, Fourth Edition
will enhance your ability
to create, debug, and
deploy efficient web
applications using***

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***ASP.NET Core and
Angular. This revised
edition includes coverage
of the Angular routing
module, expanded
discussion on the Angular
CLI, and detailed***

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***instructions for deploying
apps on Azure, as well as
both Windows and Linux.
Taking care to explain
and challenge design
choices made throughout
the text, Valerio teaches***

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***you how to build a data
model with Entity
Framework Core,
alongside utilizing the
Entity Core Fluent API
and
EntityTypeConfiguration***

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***class. You'll learn how to
fetch and display data
and handle user input
with Angular reactive
forms and front-end and
back-end validators for
maximum effect. Later,***

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you will perform advanced debugging and explore the unit testing features provided by xUnit.net (.NET 5) and Jasmine, as well as Karma for Angular. After adding

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***authentication and
authorization to your
apps, you will explore
progressive web
applications (PWAs),
learning about their
technical requirements,***

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***testing, and converting
SWAs to PWAs. By the
end of this book, you will
understand how to tie
together the front end
and back end to build and
deploy secure and robust***

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***web applications. What
you will learnImplement a
web API interface with
ASP.NET Core and
consume it with Angular
using RxJS
observablesSet up an SQL***

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***database server using a
local instance or a cloud
data storePerform C# and
TypeScript debugging
using Visual Studio
2019Create TDD and BDD
unit tests using xUnit,***

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***Jasmine, and
KarmaPerform DBMS
structured logging using
third-party providers
such as SeriLogDeploy
web apps to Windows and
Linux web servers, or***

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***Azure App Service, using
IIS, Kestrel, and
nginx***
Who this book is for
***This book is for
experienced ASP.NET
developers who already
possess some familiarity***

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with ASP.NET Core and Angular and are looking to learn how to use them effectively together. The fully documented code samples (also available on GitHub) and the step-

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***by-step implementation
tutorials make this book
easy to follow.***

***This book predominately
covers Microservices
architecture with real-
world example which can***

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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

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developers to build their applications from various independent components which can be easily changed, removed or upgraded. Also, it is relevant now because of

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***enterprises are moving
towards DevOps/
Modernization, this book
will emphasize on
containers and Dockers
as well.***

ASP.NET Core in Action,

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***Second Edition is a
comprehensive guide to
creating web applications
with ASP.NET Core 5.0.
Go from basic HTTP
concepts to advanced
framework customization.***

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***Summary Fully updated
to ASP.NET 5.0, ASP.NET
Core in Action, Second
Edition is a hands-on
primer to building cross-
platform web applications
with your C# and .NET***

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skills. Even if you've never worked with ASP.NET you'll start creating productive cross-platform web apps fast. And don't worry about late-breaking changes to

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of the print book includes
a free eBook in PDF,
Kindle, and ePub formats
from Manning
Publications. About the
technology Build full-***

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***stack web applications
that run anywhere.***

***Developers love ASP.NET
Core for its libraries and
pre-built components
that maximize
productivity. Version 5.0***

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***offers new features for
server-side apps, as well
as background services
for cross-platform
development. About the
book ASP.NET Core in
Action, Second Edition is***

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***a comprehensive guide to
creating web applications
with ASP.NET Core 5.0.
Go from basic HTTP
concepts to advanced
framework customization.
Illustrations and***

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***annotated code make
learning visual and easy.
Master logins,
dependency injection,
security, and more. This
updated edition covers
the latest features,***

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***including Razor Pages
and the new hosting
paradigm. What's inside
Developing apps for
Windows and non-
Windows servers
Configuring applications***

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***Building custom
components Logging,
testing, and security
About the reader For
intermediate C#
developers. About the
author Andrew Lock is a***

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***Microsoft MVP who has
worked with ASP.NET
Core since before its first
release. Table of
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middleware pipeline 4

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Razor Pages 5 Mapping

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using routing 6 The
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and validating user input
7 Rendering HTML using
Razor views 8 Building
forms with Tag Helpers 9***

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applications using MVC
PART 2 - BUILDING
COMPLETE APPLICATIONS
10 Service configuration
with dependency***

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Pages components 21
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IHttpClientFactory 22
Building background***

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Testing your application

***Use ASP.NET Core 2 to
create durable and cross-
platform web APIs
through a series of
applied, practical***

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***scenarios. Examples in
this book help you build
APIs that are fast and
scalable. You'll progress
from the basics of the
framework through to
solving the complex***

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***problems encountered in
implementing secure
RESTful services. The
book is packed full of
examples showing how
Microsoft's ground-up
rewrite of ASP.NET Core 2***

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***enables native cross-
platform applications
that are fast and
modular, allowing your
cloud-ready server
applications to scale as
your business grows.***

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Major topics covered in the book include the fundamentals and core concepts of ASP.NET Core 2. You'll learn about building RESTful APIs with the MVC pattern

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***using proven best
practices and following
the six principles of REST.
Examples in the book
help in learning to
develop world-class web
APIs and applications***

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that can run on any platform, including Windows, Linux, and MacOS. You can even deploy to Microsoft Azure and automate your delivery by implementing

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***Continuous Integration
and Continuous
Deployment pipelines.
What You Will Learn
Incorporate automated
API tooling such as
Swagger from the***

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***OpenAPI specification
Standardize query and
response formats using
Facebook's GraphQL
query language
Implement security by
applying authentication***

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***and authorization using
ASP.NET Identity Ensure
the safe storage of
sensitive data using the
data protection stack
Create unit and
integration tests to***

Where To Download Building
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guarantee code quality

Who This Book Is For

Developers who build

server applications such

as web sites and web

APIs that need to run fast

and cross platform;

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***programmers who want
to implement practical
solutions for real-world
problems; those who
want in-depth knowledge
of the latest bits of
ASP.NET Core 2.0***

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***Building Microservices
with .NET Core 2.0
.NET Core in Action
Microservices in .net Core
The Complete ASP.NET
Core 3 API Tutorial
Building Microservices***

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***with ASP.NET Core
Develop, Test, and
Deploy Cross-Platform
Services in the Cloud
Full-stack web
development using .NET
5, React 17, and***

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TypeScript 4, 2nd Edition

Annotation Over the past 10 years, distributed systems have become more fine-grained. From the large multi-million line long monolithic applications, we are now seeing the benefits of smaller self-contained

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services. Rather than heavy-weight, hard to change Service Oriented Architectures, we are now seeing systems consisting of collaborating microservices. Easier to change, deploy, and if required retire, organizations which are in the right

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position to take advantage of them are yielding significant benefits. This book takes an holistic view of the things you need to be cognizant of in order to pull this off. It covers just enough understanding of technology, architecture, operations

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and organization to show you how to move towards finer-grained systems.

Learn the essential concepts, techniques, and design patterns that will help you build scalable and maintainable distributed systems

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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

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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

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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

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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

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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

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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.

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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.

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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

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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

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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

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architectural app...

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

About This Book* This book will show you the basics of

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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

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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

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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*

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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*

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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

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Azure 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

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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

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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

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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

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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

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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

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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. Implement microservices starting with their architecture and moving on

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to their deployment, manageability, security, and monitoring. This book focuses on the key scenarios where microservices architecture is preferred over a monolithic architecture. Building Microservices Applications on Microsoft Azure

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begins with a survey of microservices architecture compared to monolithic architecture and covers microservices implementation in detail. You'll see the key scenarios where microservices architecture is

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preferred over a monolithic approach. From there, you will explore the critical components and various deployment options of microservices on platforms such as Microsoft Azure (public cloud) and Azure Stack (hybrid cloud). This

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includes in-depth coverage of developing, deploying, and monitoring microservices on containers and orchestrating with Azure Service Fabric and Azure Kubernetes Cluster (AKS). This book includes practical experience

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from large-scale enterprise deployments, therefore it can be a quick reference for solution architects and developers to understand the critical factors while designing a microservices application. What You Will

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Learn Explore the use cases of microservices and monolithic architecture Discover the architecture patterns to build scalable, agile, and secure microservices applications Develop and deploy microservices using

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Azure Service Fabric and Azure
Kubernetes Service Secure
microservices using the gateway
pattern See the deployment options
for Microservices on Azure
Stack Implement database patterns
to handle the complexities

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introduced by microservices Who
This Book Is For Architects and
consultants who work on Microsoft
Azure and manage large-scale
deployments.

ASP.NET Core Application
Development

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Microservices Using ASP. NET Core
Building RESTful Web Services with
.NET Core

A developer's guide to building cloud-
native applications using the Dapr
event-driven runtime

Build modern web apps with

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ASP.NET Core 2.0, MVC, and EF
Core 2

Hands-On Microservices with C# 8
and .NET Core 3 - Third Edition

NET Programming

Microservices in .NET, Second Edition
teaches you to build and deploy

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**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**

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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

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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

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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

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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

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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

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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

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than 20 years of experience building projects from large-scale microservice systems to tiny embedded systems.

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1 Microservices at a glance 2 A basic shopping cart microservice 3 Deploying a microservice to Kubernetes PART 2

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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

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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

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Get up to speed with the latest features of C# 8, ASP.NET Core 3 and .NET Core 3.1 LTS to create robust and maintainable web services

Key Features

- Apply design patterns and techniques to achieve a reactive, scalable web service
- Document your web services using the OpenAPI standard

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and test them using PostmanExplore mechanisms to implement a secure web service using client-side SSL and token authenticationBook Description In recent times, web services have evolved to play a prominent role in web development. Applications are now designed to be compatible with any

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device and platform, and web services help us keep their logic and UI separate. Given its simplicity and effectiveness in creating web services, the RESTful approach has gained popularity, and this book will help you build RESTful web services using ASP.NET Core. This REST book begins by introducing you

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to the basics of the REST philosophy, where you'll study the different stages of designing and implementing enterprise-grade RESTful web services. You'll also gain a thorough understanding of ASP.NET Core's middleware approach and learn how to customize it. The book will later guide

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you through improving API resilience, securing your service, and applying different design patterns and techniques to achieve a scalable web service. In addition to this, you'll learn advanced techniques for caching, monitoring, and logging, along with implementing unit and integration

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testing strategies. In later chapters, you will deploy your REST web services on Azure and document APIs using Swagger and external tools such as Postman. By the end of this book, you will have learned how to design RESTful web services confidently using ASP.NET Core with a focus on code

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**testability and maintainability. What
you will learnGain a comprehensive
working knowledge of ASP.NET
CoreIntegrate third-party tools and
frameworks to build maintainable and
efficient servicesImplement patterns
using dependency injection to reduce
boilerplate code and improve**

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flexibility Use ASP.NET Core's out-of-the-box tools to test your applications Use Docker to run your ASP.NET Core web service in an isolated and self-contained environment Secure your information using HTTPS and token-based authentication Integrate multiple web

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services using resiliency patterns and messaging techniques Who this book is for This book is for anyone who wants to learn how to build RESTful web services with the ASP.NET Core framework to improve the scalability and performance of their applications. Basic knowledge of C# and .NET Core

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will help you make the best use of the code samples included in the book.

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

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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

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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

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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

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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

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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

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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

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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

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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

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**manage application complexity
efficiently.**

**Learn how web applications can be built
efficiently using ASP.NET Core 2.0 and
related frameworks About This Book
Get to grips with the new features and
APIs introduced in ASP.NET Core 2.0
Leverage the MVC framework and**

Where To Download Building Microservices With Asp Net Core 2

**Entity Framework Core 2 to build
efficient applications Learn to deploy
your web applications in new
environments such as the cloud and
Docker Who This Book Is For This
book is for developers who would like to
build modern web applications with
ASP.NET Core 2.0. No prior knowledge**

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of ASP.NET or .NET Core is required. However, basic programming knowledge is assumed. Additionally, previous Visual Studio experience will be helpful but is not required, since detailed instructions will guide through the samples of the book. This book can also help people, who work in

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infrastructure engineering and operations, to monitor and diagnose problems during the runtime of ASP.NET Core 2.0 web applications. What You Will Learn Set up your development environment using Visual Studio 2017 and Visual Studio Code Create a fully automated continuous

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**delivery pipeline using Visual Studio
Team Services Get to know the basic
and advanced concepts of ASP.NET
Core 2.0 with detailed examples Build
an MVC web application and use Entity
Framework Core 2 to access data Add
Web APIs to your web applications
using RPC, REST, and HATEOAS**

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Authenticate and authorize users with built-in ASP.NET Core 2.0 features Use Azure, Amazon Web Services, and Docker to deploy and monitor your applications In Detail The ability to develop web applications that are highly efficient but also easy to maintain has become imperative to many businesses.

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ASP.NET Core 2.0 is an open source framework from Microsoft, which makes it easy to build cross-platform web applications that are modern and dynamic. This book will take you through all of the essential concepts in ASP.NET Core 2.0, so you can learn how to build powerful web applications.

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The book starts with a brief introduction to the ASP.NET Core framework and the improvements made in the latest release, ASP.NET Core 2.0. You will then build, test, and debug your first web application very quickly. Once you understand the basic structure of ASP.NET Core 2.0 web

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Core 5

applications, you'll dive deeper into more complex concepts and scenarios. Moving on, we'll explain how to take advantage of widely used frameworks such as Model View Controller and Entity Framework Core 2 and you'll learn how to secure your applications. Finally, we'll show you how to deploy

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and monitor your applications using Azure, AWS, and Docker. After reading the book, you'll be able to develop efficient and robust web applications in ASP.NET Core 2.0 that have high levels of customer satisfaction and adoption. Style and approach Start an exciting journey to building high performance

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**web applications using ASP.NET Core
2.0 and MVC**

**A Practitioner's Guide to Design,
Develop and Deploy Apps**

**A practical guide for .NET developers
to build efficient communication
mechanism for distributed apps**

Microservices Communication in .NET

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Using gRPC

Mastering ASP.NET Web API

Building an application in four sprints

**Learn to program in C# and .NET Core
by building a series of practical, cross-
platform projects**

**A Practical Approach of Learning
Microservices Using ASP. NET Core**

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Build fully functional, cloud-ready, and professional web applications using the latest features in the .NET 5 framework and React.js with Microsoft Azure Key Features Explore the new

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features of .NET 5 with this updated edition of ASP.NET Core 5 and ReactDiscover strategies for adopting a full-stack development approach, clean architecture techniques, and development best

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practices Learn how to manage data, design and package applications, and secure your web apps Book Description Microsoft's .NET framework is a robust server-side framework, now even more

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powerful thanks to the recent unification of the Microsoft ecosystem with the .NET 5 framework. This updated second edition addresses these changes in the .NET framework and the latest

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release of React. The book starts by taking you through React and TypeScript components for building an intuitive single-page application and then shows you how to design scalable

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REST APIs that can integrate with a React-based frontend. Next, you'll get to grips with the latest features, popular patterns, and tools available in the React ecosystem, including function-based

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components, React Router, and Redux. As you progress through the chapters, you'll learn how to use React with TypeScript to make the frontend robust and maintainable and cover key

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ASP.NET 5 features such as API controllers, attribute routing, and model binding to build a sturdy backend. In addition to this, you'll explore API security with ASP.NET 5 identity and authorization

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policies and write reliable unit tests using both .NET and React, before deploying your app on Azure. By the end of this book, you'll have gained the knowledge you need to enhance your C# and

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JavaScript skills and build full-stack, production-ready applications with ASP.NET 5 and React. What you will learnBuild RESTful APIs with .NET 5 using API controllersSecure REST APIs

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with identity and authorization policies
Create strongly typed, interactive, and function-based React components using Hooks
Understand how to style React components using Emotion.js
Perform

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client-side state management
with ReduxRun a range of
automated tests on the
frontend and
backendImplement continuous
integration and continuous
delivery (CI/CD) processes in

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Azure using Azure

DevOpsWho this book is for If
you're a web developer
looking to get up to speed with
full-stack web application
development with .NET Core
and React, this book is for

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you. Although the book does not assume any knowledge of React, a basic understanding of .NET Core will help you to get to grips with the concepts covered.

Build web applications in

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Microsoft .NET that run in any modern browser, helping you to transfer your .NET experience and skills to a new environment and build browser-based applications using a robust and type-safe

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language and runtime.

Developing a web site with rich client-side behavior means most developers need to learn a transpiled language like JavaScript or TypeScript. But today you can also

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develop rich browser applications using the .NET runtime and C# using Blazor. With Blazor you can use all that experience you have amassed over the years, and can use thousands of already

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existing libraries, right in the browser. Blazor Revealed will allow you to create a rich web site experience in no time. You will learn how to build user interfaces, and present data to a user for display and

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modification, capturing the user's changes via data binding. The book shows you how to access a rich library of .NET functionality such as a component model for building a composable user interface,

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including how to develop reusable components that can be used across many pages and web sites. Also covered is data exchange with a server, giving you access to microservices and database

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services. Blazor provides a fresh take on web development by eliminating the need for you to learn different languages and frameworks for client- and server-side development.

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Blazor allows C# and .NET to be used on all sides, providing a robust feature set that is well suited toward scalable, enterprise-level applications. Blazor Revealed gets you started in using this important

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new toolkit for web application development. What You'll LearnBuild user interfaces and display data for users to edit Capture the user's changes via data binding Transfer data back and forth between server

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and client Communicate with
microservices and database
services Develop reusable
components and assemble
them into bigger components
Use routing to build single
page applications (SPAs)

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Core E

Build Blazor libraries that are reusable across applications
Who This Book Is For Experienced .NET developers who want to apply their existing skills to building professional quality, client-

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side web applications that run in any browser. The book is for web developers who want to step away from JavaScript and its complexities, and instead use a proven technology (.NET) that is

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robust toward creating enterprise-quality applications that scale and are reliable and that provide good user experience. The book is for intermediate to advanced .NET web developers with no

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

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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

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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

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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

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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

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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

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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

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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.

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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

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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

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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

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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

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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

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perspective in order to better manage application complexities.

Design scalable and high-performance enterprise applications using the latest features of C# 9 and .NET 5

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Key Features Gain fundamental and comprehensive software architecture knowledge and the skillset to create fully modular apps Design high-performance software systems using the latest features of

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Core E

.NET 5 and C# 9 Solve
scalability problems in web
apps using enterprise
architecture patterns Book
Description Software
architecture is the practice of
implementing structures and

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systems that streamline the software development process and improve the quality of an app. This fully revised and expanded second edition, featuring the latest features of .NET 5 and C# 9, enables you

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to acquire the key skills,
knowledge, and best practices
required to become an
effective software architect.
This second edition features
additional explanation of the
principles of Software

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architecture, including new chapters on Azure Service Fabric, Kubernetes, and Blazor. It also includes more discussion on security, microservices, and DevOps, including GitHub deployments

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for the software development cycle. You will begin by understanding how to transform user requirements into architectural needs and exploring the differences between functional and non-

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functional requirements. Next, you will explore how to carefully choose a cloud solution for your infrastructure, along with the factors that will help you manage your app in a cloud-

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based environment. Finally, you will discover software design patterns and various software approaches that will allow you to solve common problems faced during development. By the end of

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this book, you will be able to build and deliver highly scalable enterprise-ready apps that meet your organization's business requirements. What you will learn Use different techniques to overcome real-

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world architectural challenges
and solve design
consideration issuesApply
architectural approaches such
as layered architecture,
service-oriented architecture
(SOA), and

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microservicesLeverage tools
such as containers, Docker,
Kubernetes, and Blazor to
manage microservices
effectivelyGet up to speed with
Azure tools and features for
delivering global

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solutionsProgram and
maintain Azure Functions
using C# 9 and its latest
featuresUnderstand when it is
best to use test-driven
development (TDD) as an
approach for software

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development Write automated
functional test cases Get the
best of DevOps principles to
enable CI/CD
environments Who this book is
for This book is for engineers
and senior software

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developers aspiring to become architects or looking to build enterprise applications with the .NET Stack. Basic familiarity with C# and .NET is required to get the most out of this book.

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With C#, the Nancy
Framework, and Owin
Middleware
.NET Core 2.0 By Example
Refactor Your Monolith
Architecture Into
Microservices Using Azure,

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3rd Edition

ASP.NET Core 5 for Beginners

Practical Microservices with

Dapr and .NET

Hands-On RESTful Web

Services with ASP.NET Core 3

Microservices For .NET

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Discover the powerful capabilities of Dapr by implementing a sample application with microservices leveraging the actor model to foster its strengths. Find out how Dapr helps you simplify the creation of resilient and portable microservices with this book.

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Learn how to build web applications efficiently using ASP.NET Core 5 with the C# programming language and related frameworks
Key Features
Build web apps and services and cross-platform applications using .NET and C#
Understand different web programming concepts with the help of

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real-world examples Explore the new features and APIs in ASP.NET Core 5, EF Core, Visual Studio, and Blazor
Book Description ASP.NET Core 5 for Beginners is a comprehensive introduction for those who are new to the framework. This condensed guide takes a practical and

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engaging approach to cover everything that you need to know to start using ASP.NET Core for building cloud-ready, modern web applications. The book starts with a brief introduction to the ASP.NET Core framework and highlights the new features in its latest release, ASP.NET

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Core 5. It then covers the improvements in cross-platform support, the view engines that will help you to understand web development, and the new frontend technologies available with Blazor for building interactive web UIs. As you advance, you'll learn the fundamentals of the

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different frameworks and capabilities that ship with ASP.NET Core. You'll also get to grips with securing web apps with identity implementation, unit testing, and the latest in containers and cloud-native to deploy them to AWS and Microsoft Azure. Throughout the book, you'll find clear and concise

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code samples that illustrate each concept along with the strategies and techniques that will help to develop scalable and robust web apps. By the end of this book, you'll have learned how to leverage ASP.NET Core 5 to build and deploy dynamic websites and services in a variety of real-world

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scenarios. What you will learn Explore the new features and APIs introduced in ASP.NET Core 5 and Blazor Put basic ASP.NET Core 5 concepts into practice with the help of clear and simple samples Work with Entity Framework Core and its different workflows to implement your

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*application's data access Discover the
different web frameworks that
ASP.NET Core 5 offers for building
web apps Get to grips with the basics
of building RESTful web APIs to work
with real data Deploy your web apps in
AWS, Azure, and Docker
containers Work with SignalR to add*

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*real-time notifications to your appWho
this book is for This book is for
developers who want to learn how to
develop web-based applications using
the ASP.NET Core framework.
Familiarity with the C# language and a
basic understanding of HTML and
CSS is required to get the most out of*

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this book.

Organizations today often struggle to balance business requirements with ever-increasing volumes of data. Additionally, the demand for leveraging large-scale, real-time data is growing rapidly among the most competitive digital industries.

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Conventional system architectures may not be up to the task. With this practical guide, you'll learn how to leverage large-scale data usage across the business units in your organization using the principles of event-driven microservices. Author Adam Bellemare takes you through

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*the process of building an event-driven
microservice-powered organization.*

*You'll reconsider how data is
produced, accessed, and propagated
across your organization. Learn
powerful yet simple patterns for
unlocking the value of this data.*

Incorporate event-driven design and

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architectural principles into your own systems. And completely rethink how your organization delivers value by unlocking near-real-time access to data at scale. You'll learn: How to leverage event-driven architectures to deliver exceptional business value The role of microservices in supporting

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event-driven designs Architectural patterns to ensure success both within and between teams in your organization Application patterns for developing powerful event-driven microservices Components and tooling required to get your microservice ecosystem off the ground

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Use this ASP.NET Core API tutorial and straightforward step-by-step guide to build, test, and deploy an ASP.NET Core API to Azure. It will help you code confidently and efficiently, and provides just what you need for context. The book starts with detailing how to set up your development

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environment, and then introduces a variety of tools and technologies to build, test, and deploy your API. It covers tools such as .NET Core SDK, (Version 3.1), Visual Studio Code, Git, xUnit, Docker, PostgreSQL, Postman, Azure DevOps, Azure, AutoMapper, and many more. Practical guidance is

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provided so you can achieve a tangible and valuable outcome, and you also are given a dose of theory on REST (Representational State Transfer), JSON, (JavaScript Object Notation), DTOs (Data Transfer Objects), and the MVC (Model View Controller) architectural pattern. What

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*You Will Learn Build an ASP.NET
Core API using C#, test it, and deploy
it to Azure Understand concepts on
Entity Framework Core Gain hard-
earned secrets, shortcuts, and gotchas
throughout the “build along” Get
comfortable with ASP NET Core
Environments Be introduced to unit*

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testing, CI/CD pipelines, bearer authentication, and JSON Web Tokens (JWT) Who This Book Is For Developers using the Microsoft stack. Some basic understanding of .NET Core is assumed.

Transitioning monolithic architectures using microservices with .NET Core

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2.0 using C# 7.0, 2nd Edition

Designing Fine-Grained Systems

Microservices Patterns

ASP.NET Core in Action

*Hands-On Microservices with C# 8
and .NET Core 3*

Pro Microservices in .NET 6

Building Microservices with .NET Core

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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-

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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

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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

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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

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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

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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

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external configuration Explore ways to secure ASP.NET Core microservices and applications A handbook to get familiar with the Microservices concept and developing microservices using ASP.NET Core.This is a small

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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

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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

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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

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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

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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

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Framework Core and deploy and run the microservice.

Architect your .NET applications by breaking them into really small

pieces—microservices—using this practical, example-based

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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

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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

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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

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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

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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

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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

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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

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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

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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

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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

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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.

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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

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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

Where To Download Building Microservices With Asp Net Core E examples.

Build cross-platform solutions
with .NET Core 2.0 through real-
life scenarios Key Features
Bridges the gap between
learning and doing and
improves your software

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development skills Covers the
best practices of .NET
development to improve your
productivity Example-based
approach to get you started
quickly with software
programming Book Description

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With the rise in the number of tools and technologies available today, developers and architects are always exploring ways to create better and smarter solutions. Before, the differences between target

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platforms was a major roadblock, but that's not the case now. .NET Core 2.0 By Example will take you on an exciting journey to building better software. This book provides fresh and relevant

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content to .NET Core 2.0 in a succinct format that's enjoyable to read. It also delivers concepts, along with the implications, design decisions, and potential pitfalls you might face when targeting Linux and

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Windows systems, in a logical and simple way. With the .NET framework at its center, the book comprises of five varied projects: a multiplayer Tic-tac-toe game; a real-time chat application, Let'sChat; a

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chatbot; a microservice-based buying-selling application; and a movie booking application. You will start each chapter with a high-level overview of the content, followed by the above example applications described

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in detail. By the end of each chapter, you will not only be proficient with the concepts, but you'll also have created a tangible component in the application. By the end of the book, you will have built five

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solid projects using all the tools and support provided by the .NET Core 2.0 framework. What you will learn Build cross-platform applications with ASP.NET Core 2.0 and its tools Integrate, host, and deploy web

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apps with the cloud (Microsoft Azure) Leverage the ncurses native library to extend console capabilities in .NET Core on Linux and interop with native coden .NET Core on Linux and learn how to interop with

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existing native code Reuse
existing .NET Framework and
Mono assemblies from .NET
Core 2.0 applications Develop
real-time web applications using
ASP.NET Core Learn the
differences between SOA and

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microservices and get started with microservice development using ASP.NET Core 2.0 Walk through functional programming with F# and .NET Core from scratch Who this book is for If you are a developer or architect

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and want to learn how to build cross-platform solutions using Microsoft .NET Core, this book is for you. It is assumed that you have some knowledge of the .NET Framework, OOP, and C# (or a similar programming

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Designing a real-world,
enterprise-grade microservice
ecosystem with the efficiency of
C# 7

Microservices in .NET, Second
Edition

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Building Microservices
Applications on Microsoft Azure
Microservices: Up and Running
Full-stack web development
with .NET 5 and Angular 11, 4th
Edition
Architecting software solutions

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using microservices, DevOps,
and design patterns for Azure,
2nd Edition

Building Web Applications in
.NET

***"A comprehensive overview of the
challenges teams face when***

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moving to microservices, with industry-tested solutions to these problems." - Tim Moore, Lightbend 44 reusable patterns to develop and deploy reliable production-quality microservices-based applications, with worked examples in Java Key Features 44

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***design patterns for building and
deploying microservices
applications Drawing on decades
of unique experience from author
and microservice architecture
pioneer Chris Richardson A
pragmatic approach to the
benefits and the drawbacks of***

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*microservices architecture Solve
service decomposition,
transaction management, and
inter-service communication*

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Book Microservices Patterns teaches you 44 reusable patterns to reliably develop and deploy production-quality microservices-based applications. This invaluable set of design patterns builds on decades of distributed system experience, adding new

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patterns for composing services into systems that scale and perform under real-world conditions. More than just a patterns catalog, this practical guide with worked examples offers industry-tested advice to help you design, implement, test,

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***and deploy your microservices-
based application. What You Will
Learn How (and why!) to use
microservices architecture
Service decomposition strategies
Transaction management and
querying patterns Effective
testing strategies Deployment***

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***patterns This Book Is Written For
Written for enterprise developers
familiar with standard enterprise
application architecture.***

***Examples are in Java. About The
Author Chris Richardson is a Java
Champion, a JavaOne rock star,
author of Manning's POJOs in***

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***Action, and creator of the
original CloudFoundry.com. Table
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architecture External API
patterns Testing microservices:
part 1 Testing microservices: part
2 Developing production-ready*

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***services Deploying microservices
Refactoring to microservices
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***

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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

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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

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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

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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

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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

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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

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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

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***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***

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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

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***.NET, ASP.NET Core, and C#.
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.***

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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

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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

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Microservices within a week.

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

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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

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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.

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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

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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

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Publications.*

ASP.NET Core 5 and React

*Software Architecture with C# 9
and .NET 5*

*With Examples Using ASP.NET
Core 6, MassTransit, and*

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Kubernetes

***Microservice by examples using
.NET Core***

***Developing Distributed Web
Services to improve scalability
with .NET Core 2.0 and ASP.NET
Core 2.0***

Learn Microservices - ASP.NET

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Core and Docker

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book. Through four complete sprints, this book takes you through every step needed to build brand new cross-platform web apps with ASP.NET Core, and make them available on

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**the Internet. You won't just
master Microsoft's
revolutionary open source
ASP.NET Core technology:
you'll learn how to integrate
the immense power of MVC,
Docker, Azure Web Apps,**

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**Visual Studio and Visual
Studio Code, C#,
JavaScript, TypeScript, and
Entity Framework. Working
through the authors'
carefully designed sprints,
you'll start with a blank**

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canvas, move through software architecture and design, adjusting to user feedback, recovering from mistakes, builds, testing, deployment, maintenance, refactoring, and more.

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Along the way, you'll learn techniques for delivering state-of-the-art software to users more rapidly and repeatably than ever before. Building Complete E-commerce/Shopping Cart

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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

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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

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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

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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.

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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

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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

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**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**

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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

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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

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**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**

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**Controller and Orders
Controller to manage and
process Orders Intercept
HTTP requests and
responses by building your
own middleware Test
service calls using Postman**

Where To Download Building
Microservices With Asp Net
Core 5
**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**

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**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.**

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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

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**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
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**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**

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Windows. Built for everything from lightweight web apps to industrial-strength distributed systems, it's perfect for deploying .NET servers to any cloud platform,

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**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**

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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

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**practical matters like
performance profiling,
localization, and signing
assemblies. What's Inside
Choosing the right tools
Testing, profiling, and
debugging Interacting with**

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**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**

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seasoned developer and architect involved in numerous .NET Core projects. Dustin works for Microsoft. Table of Contents Why .NET Core? Building your first .NET

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**appendix D - NuGet cache
locations**

Guide to designing and

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developing cloud native applications in Azure
DESCRIPTION The mainstreaming of Cloud Native Architecture as an enterprise discipline is well underway. According to the

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Forbes report in January 2018, 83% of the enterprise workloads will be in the cloud by 2020 and 41% of the enterprise workloads will run on public cloud platforms, while another

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22% will be running on hybrid cloud platforms. Customers are embarking on the enterprise digital transformation journeys. Adopting cloud and cloud native architectures and

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microservices is an important aspect of the journey. This book starts with a brief introduction on the basics of cloud native applications, cloud native application patterns. Then

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it covers the cloud native options available in Azure. The objective of the book is to provide practical guidelines to an architect/designer/consultant/developer, who is a part of the Cloud

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**application definition Team.
The book articulates a
methodology that the
implementation team needs
to follow in a step-by-step
manner and adopt them to
fulfil the requirements for**

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**enablement of the Cloud
Native application. It
emphasizes on the
interpersonal skills and
techniques for organizing
and directing the Cloud
Native definition,**

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leadership buy-in, leading the transition from planning to implementation. It also highlights the steps to be followed for performing the cloud native applications,

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cloud native patterns in the development of Cloud native applications, Cloud native options available in Azure, Developing BOT, Microservices based on Azure. It also covers how to

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develop simple IoT applications, Machine learning based applications, server less architecture, using Azure with a practical and pragmatic approach. This book embraces a

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**structured approach
organized around the
following key themes, which
represent the typical phases
that an enterprise traverses
during its Cloud Native
application journey: ●**

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Basics of Cloud Native Applications: It covers basics of cloud native applications using .NET core. ● Cloud Native Application Patterns: The reader will understand the

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**patterns for developing
Cloud Native Applications.**

**● Cloud Native Options
available in Azure: The
reader will understand the
different options available
in Azure. ● Developing a**

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**Simple BOT using .NET
Core: The reader will
understand the Azure BOT
framework basics and will
learn how to develop a
simple BOT. ● Developing
cloud native applications**

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**leveraging Microservices:
The reader will understand
the concepts of developing
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Manager. ● Developing
Integration capabilities**

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**using serverless
architecture: The reader
will understand the
integration capabilities and
various options available in
Azure ● Developing a
simple IoT application: The**

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reader will understand the basics of developing IoT applications. ● Developing a simple ML based application: The reader will understand Machine Learning basics and how to

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**develop a simple ML
application ● Different
enterprise use cases, which
enable digital
transformation using the
Cloud Native Applications:
The reader will learn about**

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**different use cases that can
be built using cloud native
applications KEY**

**FEATURES (Add 5-7 key
features only) ● Basics of
Cloud Native Applications ●
Designing Microservices ●**

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**Different cloud native
options for developing
Cloud Native Applications
in Azure ● BOTs, Web Apps,
Mobile Apps, Logic Apps,
Service Bus, Azure
Functions ● Azure IOT**

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**Applications ● Azure
Machine Learning Basics ●
Enterprise Digital Journeys
WHAT WILL YOU LEARN**

**This book aims to: ●
Demonstrate the
importance of a Cloud**

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**Native application in
elevating the effectiveness
of organizational
transformation programs
and digital enterprise
journeys, using MS Azure ●
Disseminate current**

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**advancements and thought
leadership in the area of
Cloud Native architecture,
in the context of digital
enterprises ● Provide
initiatives with evidence-
based, credible, field tested**

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**and practical guidance in
crafting their respective
architectures; and ●
Showcase examples and
experiences of the
innovative use of Cloud
Native Applications in**

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enhancing transformation initiatives. WHO THIS BOOK IS FOR The book is intended for anyone looking for a career in Cloud technology, all aspiring Cloud Architects who want

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**to learn Cloud Native
Architectures,
Microservices, IoT, BoT and
Microsoft Azure platform
and working professionals
who want to switch their
career in Cloud Technology.**

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While no prior knowledge of Azure or related technologies is assumed, it will be helpful to have some .Net programming experience. In addition, the target audience of this book

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**are, ● Business Leaders,
Chief Architects, Analysts
and Designers seeking
better, quicker and easier
approaches to respond to
needs of their internal and
external customers; ●**

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**CIOs/CTOs of business
software companies
interested in incorporating
Cloud Native architecture
to differentiate their
products and services
offerings and increasing the**

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value proposition to their customers; ● Consultants and practitioners desirous of new solutions and technologies to improve productivity of their clients; ● Academic and consulting

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**researchers looking to
uncover and characterize
new research problems and
programmes ●
Practitioners and
professionals involved with
organizational technology**

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**strategic planning,
technology procurement,
management of technology
projects, consulting and
advising on technology
issues and management of
total cost of ownership.**

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and Azure API Gateway 6.**

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Developing Integration capabilities using serverless architecture 7. Developing a simple IoT application 8. Developing a simple ML based application 9. Different enterprise use

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**cases which enable digital
transformation using Cloud
Native Applications
Hands-On Microservices
with C#
Building Cross-Platform
Back-End Systems**

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**Design production-ready,
testable, and flexible
RESTful APIs for web
applications and
microservices
With examples in Java
Building Microservices**

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Blazor Revealed

Learning ASP.NET Core 2.0

Learn how to implement gRPC on the .NET platform step by step and cover how to use gRPC on .NET, including fundamentals, use cases, and best practices

Key Features Explore all aspects of gRPC implementation on

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.NET, from the most basic features to advanced ones Discover best practices for using gRPC to make sure that your applications are as efficient and as scalable as possible Identify when gRPC is the best tool for the job and when it isn't Book Description Explore gRPC's capabilities for faster

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communication between your microservices using the HTTP/2 protocol in this practical guide that shows you how to implement gRPC on the .NET platform. gRPC is one of the most efficient protocols for communication between microservices that is also relatively easy to

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implement. However, its official documentation is often fragmented and.NET developers might find it difficult to recognize the best way to map between C# data types and fields in gRPC messages. This book will address these concerns and much more. Starting with the fundamentals

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of gRPC, you'll discover how to use it inside .NET apps. You'll explore best practices for performance and focus on scaling a gRPC app. Once you're familiar with the inner workings of the different call types that gRPC supports, you'll advance to learning how to secure your gRPC endpoints

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by applying authentication and authorization. With detailed explanations, this gRPC .NET book will show you how the Protobuf protocol allows you to send messages efficiently by including only the necessary data. You'll never get confused again while translating

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between C# data types and the ones available in Protobuf. By the end of the book, you'll have gained practical gRPC knowledge and be able to use it in .NET apps to enable direct communication between microservices. What you will learn Get to grips with the fundamentals of

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gRPC and Protobuf Debug gRPC
components inside a .NET application
to locate and fix errors Understand
gRPC best practices, such as
performance enhancement Effectively
translate between gRPC and native
C# code by applying well-known types
Secure gRPC communication inside a

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.NET application Discover how to monitor gRPC on .NET by applying logging and metrics Who this book is for This book is for NET developers who are working with microservices and are looking for efficient solutions to facilitate communication between services using gRPC. Anyone who is

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familiar with microservices architecture and has knowledge of the fundamentals of .NET Core, but not necessarily of gRPC, will also find this book useful.

Leverage ASP.Net Web API to build professional web services and create powerful applications. About This Book

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Get a comprehensive analysis of the latest specification of ASP.NET Core and all the changes to the underlying platform that you need to know to make the most of the web API See an advanced coverage of ASP.NET Core Web API to create robust models for your data, create controllers, and

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handle routing and security This book is packed with key theoretical and practical concepts that can be instantly applied to build professional applications using API with Angular 4, Ionic, and React Who This Book Is For This book is for .Net developers who wants to Master ASP.NET Core (Web

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API) and have played around with previous ASP.NET Web API a little, but don't have in-depth knowledge of it. You need to know Visual Studio and C#, and have some HTML, CSS, and JavaScript knowledge. What You Will Learn Acquire conceptual and hands-on knowledge of ASP.NET Core (MVC

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& Web API) Learn about HTTP methods, the structure of HTTP content, internet media types, and how servers respond to HTTP requests and their associated HTTP codes Explore middleware, filters, routing, and unit testing Optimize Web API implementations Develop a secure

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Web API interface Deploy Web API projects to various platforms Consume your web API in front end application based on Angular 4, Bootstrap, and Ionic Implement and explore the current trends in service architecture In Detail Microsoft has unified their main web development platforms. This

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unification will help develop web applications using various pieces of the ASP.NET platform that can be deployed on both Windows and LINUX. With ASP.NET Core (Web API), it will become easier than ever to build secure HTTP services that can be used from any client. Mastering

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ASP.NET Web API starts with the building blocks of the ASP.NET Core, then gradually moves on to implementing various HTTP routing strategies in the Web API. We then focus on the key components of building applications that employ the Web API, such as Kestrel,

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Middleware, Filters, Logging, Security, and Entity Framework. Readers will be introduced to take the TDD approach to write test cases along with the new Visual Studio 2017 live unit testing feature. They will also be introduced to integrate with the database using ORMs. Finally, we explore how the

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Web API can be consumed in a browser as well as by mobile applications by utilizing Angular 4, Ionic and ReactJS. By the end of this book, you will be able to apply best practices to develop complex Web API, consume them in frontend applications and deploy these

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applications to a modern hosting infrastructure. Style and approach Using a hands-on approach, we cover both the conceptual as well as the technical aspects of the ASP.NET Core (Web API) framework.

Practical Software Architecture
Solutions from the Legendary Robert

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C. Martin ("Uncle Bob") By applying universal rules of software architecture, you can dramatically improve developer productivity throughout the life of any software system. Now, building upon the success of his best-selling books Clean Code and The Clean Coder,

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legendary software craftsman Robert C. Martin ("Uncle Bob") reveals those rules and helps you apply them.

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