

Online Library

Microsoft Net

Architecting

Microsoft

Applications For

Net Archite

The Enterprise

cting Appli

cations For

The

Enterprise

Pro

Developer

Master machine

Online Library

Microsoft Net

Architecting

Applications For

The Enterprise

Pro Developer

**learning concepts
and develop real-
world solutions**

**Machine learning
offers immense
opportunities, and
Introducing**

**Machine Learning
delivers practical
knowledge to
make the most of
them. Dino and**

Francesco

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Architecting

Applications For

The Enterprise

Pro Developer

**Esposito start with
a quick overview
of the foundations
of artificial
intelligence and
the basic steps of
any machine
learning project.**

**Next, they
introduce**

**Microsoft's
powerful ML.NET
library, including**

Online Library

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Architecting

Applications For

The Enterprise

Pro Developer

capabilities for data processing, training, and evaluation. They present families of algorithms that can be trained to solve real-life problems, as well as deep learning techniques utilizing neural networks. The

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Architecting
Applications For
The Enterprise
Pro Developer

**authors conclude
by introducing
valuable runtime
services available
through the Azure
cloud platform and
consider the long-
term business
vision for machine
learning. · 14-time
Microsoft MVP
Dino Esposito and
Francesco**

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Applications For

The Enterprise

Pro Developer

Esposito help you

· Explore what's

known about how

humans learn and

how intelligent

software is built .

Discover which

problems machine

learning can

address .

Understand the

machine learning

pipeline: the steps

Online Library

Microsoft Net

Architecting

Applications For

The Enterprise

Pro Developer

**leading to a
deliverable model .**

**Use AutoML to
automatically
select the best
pipeline for any
problem and
dataset . Master
ML.NET,**

**implement its
pipeline, and apply
its tasks and
algorithms .**

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Applications For

The Enterprise

Pro Developer

Explore the mathematical foundations of machine learning . Make predictions, improve decision-making, and apply probabilistic methods . Group data via classification and clustering . Learn the fundamentals

Online Library

Microsoft Net

Architecting

of deep learning,
Applications For
including neural

The Enterprise
network design .

Pro Developer
Leverage AI cloud

services to build

better real-world

solutions faster

About This Book .

For professionals

who want to build

machine learning

applications: both

developers who

Online Library

Microsoft Net

Architecting

need data science

skills and data

scientists who

need relevant

programming

skills · Includes

examples of

machine learning

coding scenarios

built using the

ML.NET library

Get the definitive

guide on

Online Library
Microsoft Net
Architecting
designing
Applications For
The Enterprise
Pro Developer
application platfor
mâ€™ straight from
the Microsoft
patterns &
practices team.
Learn how to
choose the most
appropriate
architecture and
the best

Online Library

Microsoft Net

Architecting

Applications For
The Enterprise

Pro Developer

implementation

technologies that

the Microsoft

application

platform offers

applications

developers. Get

critical design

recommendations

and guidelines

organized by

application
typeâ€”from Web,

Online Library

Microsoft Net

Architecting

mobile, and rich

Applications For

The Enterprise

For Developer

**mobile, and rich
Internet**

applications to

Office Business

Applications.

Youâ€™™ also get

links to additional

technical

resources that can

help with your

application

development.

A comprehensive

Online Library

Microsoft Net

Architecting

Applications For

The Enterprise

Pro Developer

**guide for
beginners to learn
the key concepts,
real-world**

**applications, and
latest features of
C# 10 and .NET 6**

with hands-on

exercises using

Visual Studio 2022

and Visual Studio

Code Key

FeaturesExplore

Online Library

Microsoft Net

Architecting

Applications For

The Enterprise

Pro Developer

**the newest
additions to C# 10,
the .NET 6 class
library, and Entity
Framework Core
6Create
professional
websites and
services with
ASP.NET Core 6
and BlazorBuild
cross-platform
apps for Windows,**

Online Library
Microsoft Net
Architecting
**macOS, Linux,
iOS, and
AndroidBook**
Description
Extensively
revised to
accommodate all
the latest features
that come with C#
10 and .NET 6, this
latest edition of
our
comprehensive

Online Library

Microsoft Net

Architecting

**guide will get you
coding in C# with**

confidence. You'll

learn object-

oriented

programming,

writing, testing,

and debugging

functions,

implementing

interfaces, and

inheriting classes.

The book covers

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Microsoft Net

Architecting

Applications For

The Enterprise

Pro Developer

the .NET APIs for performing tasks like managing and querying data, monitoring and improving performance, and working with the filesystem, async streams, and serialization. You'll build and deploy cross-platform

Online Library

Microsoft Net

Architecting

Applications For

The Enterprise

For Developers

**apps, such as
websites and
services using
ASP.NET Core.**

**Instead of
distracting you
with unnecessary
application code,
the first twelve
chapters will teach
you about C#
language
constructs and**

Online Library

Microsoft Net

Architecting

Applications For

The Enterprise

Pro Developer

**many of the .NET
libraries through
simple console
applications. In
later chapters,
having mastered
the basics, you'll
then build
practical
applications and
services using
ASP.NET Core, the
Model-View-**

Online Library

Microsoft Net

Architecting

Applications For

The Enterprise

Pr Developer

**Controller (MVC)
pattern, and
Blazor. What you
will learnBuild rich
web experiences
using Blazor,
Razor Pages, the
Model-View-
Controller (MVC)
pattern, and other
features of
ASP.NET
CoreBuild your**

Online Library

Microsoft Net

Architecting

Applications For

The Enterprise

Pro Developer

**own types with
object-oriented
programming Write
, test, and debug
functions Query
and manipulate
data using
LINQ Integrate and
update databases
in your apps using
Entity Framework
Core, Microsoft
SQL Server, and**

Online Library

Microsoft Net

Architecting

Applications For

The Enterprise

Pro Developer

**SQLiteBuild and
consume powerful
services using the
latest**

**technologies,
including gRPC
and GraphQLBuild
cross-platform
apps using**

XAMLWho this

book is for

**Designed for both
beginners and C#**

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Architecting

Applications For

The Enterprise

Pro Developer

and .NET

programmers who

have worked with

C# in the past and

want to catch up

with the changes

made in the past

few years, this

book doesn't need

you to have any C#

or .NET

experience.

However, you

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Architecting

Applications For

The Enterprise

Pro Developer

**should have a
general
understanding of
programming
before you jump
in.**

**Design, develop,
and deploy a real-
world web
application by
leveraging modern
open source
technologies. This**

Online Library

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Architecting

Applications For

The Enterprise

Pro Developer

**book shows you
how to use
ASP.NET Core to
build cross-
platform web
applications along
with SignalR to
enrich the
application by
enabling real-time
communication
between server
and clients. You**

Online Library

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Architecting

Applications For

The Enterprise

Pro Developer

will use Docker to containerize your application, integrate with GitHub to package the application, and provide continuous deployment to Azure's IaaS platform. Along the way, Real-Time Web Application

Online Library

Microsoft Net

Architecting

Applications For

The Enterprise

Pro Developer

Development

covers topics

including

designing a

Materialize CSS

theme, using a test-

driven

development

approach with

xUnit.net, and

securing your

application with

the OAuth 2.0

Online Library
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Architecting
Applications For
The Enterprise
Pro Developer

**protocol. To
further your
understanding of
the technology,
you will learn
logging and
exception
handling;
navigation using
view components;
and how to work
with forms and
validations. The**

Online Library

Microsoft Net

Architecting

rich code samples
Applications For
from this book can

The Enterprise
be used to retrofit

Pro Developer
or upgrade

existing ASP.NET

Core applications.

What You Will

Learn Design and

develop a real-

world web

application

Implement

security and data

Online Library

Microsoft Net

Architecting

**storage with
OAuth2 and Azure**

Table Storage

**Orchestrate real-
time notifications**

through SignalR

Use GitHub and

Travis CI for

continuous

integration of code

Master Docker

containerization

and continuous

Online Library

Microsoft Net

Architecting

Applications For

The Enterprise

Pro Developer

**deployment with
Docker Cloud to
Azure Linux virtual
machines Who
This Book Is For
Developers and
software
engineers
interested in
learning an end-to-
end approach to
application
development**

Online Library

Microsoft Net

Architecting

using Microsoft
Applications For
technologies.

The Enterprise
Develop, Test, and

Pro Developer
Deploy Cross-

Platform Services

in the Cloud

Programming

ASP.NET Core,

Programming

ASP.NET Core

Architecting Web

Applications

Build apps,

Online Library
Microsoft Net
Architecting
websites, and
Applications For
services with
The Enterprise
ASP.NET Core 6,
Pro Developer
Blazor, and EF
Core 6 using
Visual Studio 2022
and Visual Studio
Code
Design Patterns
A Problem-
Solution Approach

Become a professional
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Online Library

Microsoft Net

Architecting

.NET developer by

learning expert

techniques for

building enterprise-

grade applications

Key Features Explore

the advanced features

of C# and .NET 5 to

enhance your code

and

productivity Follow

clear and easy

instructions for

Online Library

Microsoft Net

Architecting

building an end-to-end enterprise

Applications For

The Enterprise

Learn how

to build scalable web

applications and host

them on the

cloud

Book

Description .NET

Core is one of the

most popular

programming

platforms in the world

for an increasingly

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Microsoft Net

Architecting

Applications For

The Enterprise

Pro Developer

large community of developers thanks to its excellent cross-platform support. This book will show you how to confidently use the features of .NET 5 with C# 9 to build robust enterprise applications.

Throughout the book, you'll work on creating an enterprise

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Microsoft Net

Architecting

app and adding a key component to the app

with each chapter,

before finally getting it

ready for testing and

deployment. You'll

learn concepts

relating to advanced

data structures, the

Entity Framework

Core, parallel

programming, and

dependency injection.

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Microsoft Net

Architecting

Applications For

The Enterprise

Pro Developer

As you progress, you'll cover various

authentication and

authorization schemes

provided by .NET

Core to make your

apps and APIs secure.

Next, you'll build web

apps using ASP.NET

Core 5 and deploy

them on the cloud

while working with

various cloud

Online Library

Microsoft Net

Architecting

components using

Applications For

The Enterprise

Pro Developer

the latest Microsoft

Visual Studio 2019

and C# 9 to simplify

developer tasks, and

also explores tips and

tricks in Visual Studio

2019 to improve your

productivity. Later,

you'll discover various

testing techniques

Online Library

Microsoft Net

Architecting

Applications For

The Enterprise

Pro Developer

such as unit testing and performance testing as well as different methods to deploy enterprise apps. By the end of this book, you'll be able to create enterprise apps using the powerful features of .NET 5 and deploy them on the cloud.

What you will

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Microsoft Net

Architecting

learn Design

Applications For

enterprise apps by

The Enterprise

making the most of the

Pro Developer

latest features of .NET

5 Discover di?erent

layers of an app, such

as the data layer, API

layer, and web

layer Explore end-to-

end architecture,

implement an

enterprise web app

using .NET and C# 9,

Online Library

Microsoft Net

Architecting

and deploy the app on

AzureFocus on the

core concepts of web

application

development such as

dependency injection,

caching, logging,

con?guration, and

authentication, and

implement them in

.NET 5Integrate the

new .NET 5 health

and performance

Online Library

Microsoft Net

Architecting

*check APIs with your
app Understand how*

.NET 5 works and

contribute to the .NET

5 platform Who this

book is for If you are

a developer, architect,

or senior programmer

who wants to leverage

the features of .NET 5

and the C# language,

as well as grasp

essential techniques to

Online Library

Microsoft Net

Architecting

*build your skills, then
this C# .NET 5 book is*

for you. Beginner to

intermediate-level

knowledge of the .NET

framework and C#

programming is

required to

understand the

concepts covered in

this book more

effectively.

Software -- Software

Online Library

Microsoft Net

Architecting

Engineering.

Applications For

The Enterprise

Pro Developer

front—and improve the

quality and reliability

of your results. Led by

two enterprise

programming experts,

you'll learn how to

apply the patterns and

techniques that help

control project

Online Library

Microsoft Net

Architecting

*complexity—and make
systems easier to*

build, support, and

upgrade—right from

the start. Get

pragmatic

architectural guidance

on how to: Build

testability,

maintainability, and

security into your

system early in the

design Expose

Online Library

Microsoft Net

Architecting

*business logic through
Applications For
a service-oriented*

*The Enterprise
interface Choose the*

best pattern for

organizing business

logic and behavior

Review and apply the

patterns for

separating the UI and

presentation logic

Delve deep into the

patterns and practices

for the data access

Online Library

Microsoft Net

Architecting

Applications For

The Enterprise

Pro Developer

*layer Tackle the
impedance mismatch*

between objects and

data Minimize

development effort

and avoid over-

engineering—and

deliver more robust

results Get code

samples on the Web.

Summary .NET Core

in Action shows .NET

developers how to

Online Library

Microsoft Net

Architecting

*build professional
software applications
for
The Enterprise
with .NET Core.*

*Learn how to convert
existing .NET code to
work on multiple
platforms or how to
start new projects with
knowledge of the tools
and capabilities of
.NET Core. Purchase
of the print book
includes a free eBook*

Online Library

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Architecting

Applications For

The Enterprise

Pro Developer

*in PDF, Kindle, and
ePub formats from
Manning Publications.*

About the Technology

*.NET Core is an open
source framework that*

lets you write and run

.NET applications on

Linux and Mac,

without giving up on

Windows. Built for

everything from

lightweight web apps

Online Library

Microsoft Net

Architecting

*to industrial-strength
Applications For
distributed systems,*

it's perfect for

deploying .NET

servers to any cloud

platform, including

AWS and GCP. About

the Book .NET Core in

Action introduces you

to cross-platform

development with

.NET Core. This

hands-on guide

Online Library

Microsoft Net

Architecting

concentrates on new

Core features as you

walk through familiar

tasks like testing,

logging, data access,

and networking. As

you go, you'll explore

modern architectures

like microservices and

cloud data storage,

along with practical

matters like

performance profi

Online Library

Microsoft Net

Architecting

*ling, localization, and
signing assemblies.*

The Enterprise

What's Inside

Pro Developer

Choosing the right

tools Testing,

profiling, and

debugging Interacting

with web services

Converting existing

projects to .NET Core

Creating and using

NuGet packages

About the Reader All

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Architecting

examples are in C#.

Applications For

The Enterprise

Pro Developer

Dustin Metzgar is a

seasoned developer

and architect involved

in numerous .NET

Core projects. Dustin

works for Microsoft.

Table of Contents Why

.NET Core? Building

your first .NET Core

applications How to

build with .NET Core

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Unit testing with xUnit

Working with

relational databases

Simplify data access

with object-relational

mappers Creating a

microservice

Debugging

Performance and

profiling Building

world-ready

applications Multiple

frameworks and

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*runtimes Preparing
Applications For
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- Frameworks and

runtimes appendix B -

xUnit command-line

options appendix C -

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Standard Library?

appendix D - NuGet

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Creating Enterprise

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Services
Designing,
Developing,
Deploying, and
Monitoring
Understanding
domains,
technologies, and user
experience
Microsoft ASP.NET
and AJAX
Designing Data-
Intensive Applications

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Architecting

Architecture and Best

Practices for Mobile

The Enterprise

Pro Developer

Introducing Microsoft

ASP.NET 2.0

Ready to learn

Windows 8

programming? Start

Here! Learn the

fundamentals of

Windows 8

programming and

begin creating apps

Online Library

Microsoft Net

Architecting

Applications For

The Enterprise

Pro Developer

for desktops, laptops, tablets, and other devices. If you have previous experience with HTML5 and JavaScript—simply start here! This book introduces must-know concepts and getting-started techniques through easy-to-follow explanations, examples, and

Online Library
Microsoft Net
Architecting
Applications For
The Enterprise
Pro Developer

exercises. Here's
where you start
learning Windows 8
app development

Build on your
knowledge of
HTML5, CSS, and
JavaScript Create
photo and media
galleries with built-in
HTML widgets
Interact with the
system through live

Online Library

Microsoft Net

Architecting

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Pro Developer

tiles, contracts, and
view state detection
Store and access data
on the local device
and via the Internet
Access webcam, GPS,
and other sensors
embedded in the
device Create your
first programs and
publish them to the
Windows Store

A software architect's

Online Library

Microsoft Net

Architecting

Applications For

The Enterprise

Pro Developer

digest of core practices, pragmatically applied. Designing effective architecture is your best strategy for managing project complexity—and improving your results. But the principles and practices of software architecting—what the

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Architecting

Applications For

The Enterprise

Pro Developer

authors call the
science of hard
decisions have been
evolving for cloud,
mobile, and other
shifts. Now fully
revised and updated,
this book shares the
knowledge and real-
world perspectives
that enable you to
design for success and
deliver more

Online Library

Microsoft Net

Architecting

successful solutions.

In this fully updated

Second Edition, you

will: Learn how only a

deep understanding of

domain can lead to

appropriate

architecture Examine

domain-driven design

in both theory and

implementation Shift

your approach to code

first, model

Online Library

Microsoft Net

Architecting

Applications For

The Enterprise

Pro Developer

later—including
multilayer architecture
Capture the benefits of
prioritizing software
maintainability See
how readability,
testability, and
extensibility lead to
code quality Take a
user experience (UX)
first approach, rather
than designing for
data Review patterns

Online Library
Microsoft Net
Architecting
Applications For
The Enterprise
Pro Developer

for organizing
business logic Use
event sourcing and
CQRS together to
model complex
business domains
more effectively
Delve inside the
persistence layer,
including patterns and
implementation.
Build your expertise
as you move beyond

Online Library

Microsoft Net

Architecting

Applications For

The Enterprise

For Developer

the basics--and delve into the core topics of programming with ASP.NET 2.0. Useful to both experienced developers and those developing new skills, this ultimate reference is packed with expert guidance, hands-on programming instruction, and practical examples to

Online Library

Microsoft Net

Architecting

Applications For

The Enterprise

For Developer

help you advance your mastery of developing applications for the

Web. Discover how

to: Author rich,

visually consistent

pages and manage

layout with themes

and Master pages

Create personalized

pages that persist user

preferences Retrieve,

modify, and manage

Online Library

Microsoft Net

Architecting

data with Microsoft
ADO.NET Configure

The HTTP pipeline to
serve ASP.NET 2.0

pages Control

program flow by

tracing and handling

exceptions Design

caching layers and

learn state

management

techniques to optimize

application

Online Library

Microsoft Net

Architecting

performance Manage

users with

membership control,

registration, and

authentication

capabilities Build real-

world data access

layers using common

design patterns Use

custom collections

with data source

controls Learn the

internals of grid

Online Library

Microsoft Net

Architecting
controls PLUS--Get
Applications For
code samples on the
The Enterprise
Web

Pro Developer
Architect and design
highly scalable,
robust, clean and
highly performant
applications in .NET
Core About This Book
Incorporate
architectural soft-
skills such as DevOps
and Agile

Online Library

Microsoft Net

Architecting

Applications For

The Enterprise Gain

knowledge of

architectural

approaches on the

likes of SOA

architecture and

microservices to

provide traceability

and rationale for

architectural decisions

Explore a variety of

Online Library

Microsoft Net

Architecting

practical use cases and
code examples to

implement the tools
and techniques

described in the book

Who This Book Is For

This book is for

experienced .NET

developers who are

aspiring to become

architects of enterprise-

grade applications, as

well as software

well as software

Online Library

Microsoft Net

Architecting

Applications For
architects who would
like to leverage .NET

The Enterprise
to create effective

Pro Developer
blueprints of

applications. What

You Will Learn Grasp

the important aspects

and best practices of

application lifecycle

management Leverage

the popular ALM

tools, application

insights, and their

Online Library

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Architecting

usage to monitor
Applications For
performance, For

The Enterprise
testability, and

Pro Developer
optimization tools in

an enterprise Explore

various authentication

models such as social

media-based

authentication, 2FA

and OpenID Connect,

learn authorization

techniques Explore

Azure with various

Online Library

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The Enterprise

Pro Developer

solution approaches
for Microservices and
Serverless architecture
along with Docker

containers Gain

knowledge about the

recent market trends

and practices and how

they can be achieved

with .NET Core and

Microsoft tools and

technologies In Detail

If you want to design

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Architecting

and develop enterprise applications using

.NET Core as the

development

framework and learn

about industry-wide

best practices and

guidelines, then this

book is for you. The

book starts with a

brief introduction to

enterprise architecture,

which will help you to

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Applications For

The Enterprise

Pro Developer

understand what enterprise architecture is and what the key components are. It will then teach you about the types of patterns and the principles of software development, and explain the various aspects of distributed computing to keep your applications

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Architecting

effective and scalable.

Applications For

The Enterprise

Pro Developer

practical

implementation, and

design and develop

applications using

different architectural

approaches, such as

layered architecture,

service oriented

architecture,

microservices and

Online Library
Microsoft Net
Architecting
cloud-specific
Applications For
solutions. Gradually,
The Enterprise
you will learn about
Pro Developer
the different
approaches and
models of the Security
framework and
explore various
authentication models
and authorization
techniques, such as
social media-based
authentication and

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Architecting

safe storage using app
secrets. By the end of

the book, you will get

to know the concepts

and usage of the

emerging fields, such

as DevOps, BigData,

architectural practices,

and Artificial

Intelligence. Style and

approach Filled with

examples and use

cases, this guide takes

Online Library

Microsoft Net

Architecting

a no-nonsense

approach to show you

the best tools and

techniques required to

become a successful

software architect.

Microsoft .NET

Building Solutions

with the Microsoft

.NET Compact

Framework

Hands-On Software

Architecture with C#

Online Library

Microsoft Net

Architecting

8 and .NET Core 3

Applications For

The Enterprise

Object-Oriented

Software Developer

Introducing Machine

Learning

A Practitioner's Guide

to Design, Develop

and Deploy Apps

Building

Microservices with

ASP.NET Core

Guide to designing and

Online Library

Microsoft Net

Architecting
Applications For
developing cloud native
applications in Azure

DESCRIPTION The

mainstreaming of Cloud
Native Architecture as
an enterprise discipline
is well underway.

According to the 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

Online Library

Microsoft Net

Architecting

public cloud platforms,
while another 22% will

be running on hybrid

cloud platforms.

Customers are

embarking on the

enterprise digital

transformation journeys.

Adopting cloud and

cloud native

architectures and

microservices is an

important aspect of the

journey. This book

Online Library Microsoft Net Architecting Applications For The Enterprise App Developer

starts with a brief introduction on the basics of cloud native applications, cloud native application patterns. Then 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 application

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Architecting

Applications For

The Enterprise

For Developers

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 enablement of the Cloud Native application. It emphasizes on the interpersonal skills and techniques for

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Applications For

The Enterprise

Pro Developer

organizing and directing
the Cloud Native

definition, leadership

buy-in, leading the

transition from planning

to implementation. It

also highlights the steps

to be followed for

performing the cloud

native applications,

cloud native patterns in

the development of

Cloud native

applications, Cloud

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Applications For

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native options available in Azure, Developing BOT, Microservices based on Azure. It also covers how to develop simple IoT applications, Machine learning based applications, server less architecture, using Azure with a practical and pragmatic approach. This book embraces a structured approach organized

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Architecting

Applications For

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Pro Developer

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

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

Online Library

Microsoft Net

Architecting

Applications For

The Enterprise

Cloud Developer

understand the patterns
for developing Cloud
Native Applications.

Cloud Native Options
available in Azure: The
reader will understand
the different options
available in Azure.

Developing a Simple
BOT using .NET Core:
The reader will
understand the Azure
BOT framework basics
and will learn how to

Online Library

Microsoft Net

Architecting

develop a simple BOT.

Applications For

Developing cloud

The Enterprise

native applications

for Developer

leveraging

Microservices: The

reader will understand

the concepts of

developing micro

services using the Azure

API Gateway Manager.

Developing

Integration capabilities

using serverless

architecture: The reader

Online Library

Microsoft Net

Architecting

Applications For

The Enterprise

Pro Developer

Developing a simple IoT application: The reader will understand the basics of developing IoT applications.

Developing a simple ML based application: The reader will understand Machine Learning basics and

Online Library

Microsoft Net

Architecting

Applications For

The Enterprise

Pro Developer

how to develop a simple
ML application

Different enterprise use
cases, which enable

digital transformation

using the Cloud Native

Applications: The

reader will learn about

different use cases that

can be built using cloud

native applications **KEY**

FEATURES (Add 5-7

key features only)

Basics of Cloud Native

Online Library

Microsoft Net

Architecting
Applications

Designing Microservices

The Different cloud

native options for
Pro Developer

developing Cloud

Native Applications in

Azure BOTs, Web

Apps, Mobile Apps,

Logic Apps, Service

Bus, Azure Functions

Azure IOT Applications

Azure Machine

Learning Basics

Enterprise Digital

Online Library

Microsoft Net

Architecting
Journeys WHAT WILL
YOU LEARN This

book aims to:

Demonstrate the

importance of a Cloud

Native application in

elevating the

effectiveness of

organizational

transformation

programs and digital

enterprise journeys,

using MS Azure

Disseminate current

Online Library

Microsoft Net

Architecting

Applications For

The Enterprise

No Developer, in

the context of digital

enterprises Provide

initiatives with evidence-

based, credible, field

tested and practical

guidance in crafting

their respective

architectures; and

Showcase examples and

experiences of the

Online Library

Microsoft Net

Architecting

innovative use of Cloud

Applications For

The Enterprise

Pro Developer

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 to learn Cloud

Native Architectures,

Microservices, IoT, BoT

Online Library
Microsoft Net
Architecting
and Microsoft Azure
Applications For
The Enterprise
Pro Developer
platform and working
professionals who want
to switch their career in
Cloud Technology.

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 are,

Online Library

Microsoft Net

Architecting

Business Leaders, Chief
Architects, Analysts and

Designers seeking

better, quicker and

easier approaches to

respond to needs of their
internal and external
customers;

CIOs/CTOs of business
software companies
interested in

incorporating Cloud
Native architecture to
differentiate their

Online Library

Microsoft Net

Architecting

products and services
offerings and increasing

the value proposition to

their customers;

Consultants and

practitioners desirous of

new solutions and

technologies to improve

productivity of their

clients; Academic

and consulting

researchers looking to

uncover and

characterize new

Online Library

Microsoft Net

Architecting

Applications For
research problems and
programmes

Practitioners and

professionals involved
Pro Developer

with organizational

technology strategic

planning, technology

procurement,

management of

technology projects,

consulting and advising

on technology issues and

management of total

cost of ownership. Table

Online Library

Microsoft Net

Architecting

of Contents 1. Basics of
Applications For
Cloud Native

Applications 2. Cloud

Native Application

Patterns 3. Cloud

Native Options

available in Azure –

BOTs, Logic Apps,

Service Bus, Azure

Microservices, ML

services 4. Developing a

Simple BOT using

.NET Core 5.

Developing Cloud

Online Library

Microsoft Net

Architecting

Native applications
leveraging Microservices
and Azure API Gateway

6. Developing

Integration capabilities
using serverless
architecture 7.

Developing a simple
IoT application 8.

Developing a simple
ML based application 9.

Different enterprise use
cases which enable
digital transformation

Online Library
Microsoft Net
Architecting
using Cloud Native
Applications For
The Enterprise
Microsoft .NET -
Architecting
Pro Developer
Applications for the
Enterprise Microsoft
Press

The practice of
enterprise application
development has
benefited from the
emergence of many new
enabling technologies.

Multi-tiered object-

Online Library

Microsoft Net

Architecting

Applications For

The Enterprise

For Developers

oriented platforms, such as Java and .NET, have become commonplace.

These new tools and technologies are capable of building powerful applications, but they are not easily implemented. Common failures in enterprise applications often occur because their developers do not understand the architectural lessons that

Online Library

Microsoft Net

Architecting

experienced object
Applications For
developers have learned.

Patterns of Enterprise

Application
Developer

Architecture is written
in direct response to the
stiff challenges that face
enterprise application
developers. The author,
noted object-oriented
designer Martin Fowler,
noticed that despite
changes in
technology--from

Online Library

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Architecting

Applications For

The Enterprise

Pro Developer

Smalltalk to CORBA to Java to .NET--the same basic design ideas can be adapted and applied to solve common problems. With the help of an expert group of contributors, Martin distills over forty recurring solutions into patterns. The result is an indispensable handbook of solutions that are applicable to

Online Library

Microsoft Net

Architecting

any enterprise

application platform.

This book is actually

two books in one. The

first section is a short

tutorial on developing

enterprise applications,

which you can read

from start to finish to

understand the scope of

the book's lessons. The

next section, the bulk of

the book, is a detailed

reference to the patterns

Online Library

Microsoft Net

Architecting

Applications For

The Enterprise

For Developers

themselves. Each pattern provides usage and implementation information, as well as detailed code examples in Java or C#. The entire book is also richly illustrated with UML diagrams to further explain the concepts. Armed with this book, you will have the knowledge necessary to make important

Online Library

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Architecting

Applications For

The Enterprise

Pro Developer

architectural decisions about building an enterprise application and the proven patterns for use when building them. The topics

covered include .

Dividing an enterprise application into layers

- The major approaches to organizing business logic
- An in-depth treatment of mapping

Online Library

Microsoft Net

Architecting

Applications For

The Enterprise

Pro Developer

between objects and
relational databases .

Using Model-View-

Controller to organize a

Web presentation .

Handling concurrency

for data that spans

multiple transactions .

Designing distributed

object interfaces

At a time when nearly

every vertical, regardless

of domain, seems to

need software running

Online Library

Microsoft Net

Architecting

Applications For

The Enterprise

Pro Devs

in the cloud to make money, microservices provide the agility and drastically reduced time to market you require.

This hands-on guide shows you how to create, test, compile, and deploy microservices, using the ASP.NET Core free and open-source framework. Along the way, you 'll pick up good, practical

Online Library

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Architecting

Applications For

The Enterprise

Pro Developer

habits for building powerful and robust services. Building microservices isn't about learning a specific framework or programming language; it's about building applications that thrive in elastically scaling environments that don't have host affinity, and that can start and stop at a moment's notice.

Online Library

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Architecting

Applications For

The Enterprise

Pro Developer

This practical book

guides you through the

process. Learn test-

driven and API-first

development concepts

Communicate with

other services by

creating and consuming

backing services such as

databases and queues

Build a microservice

that depends on an

external data source

Learn about event

Online Library
Microsoft Net
Architecting
Applications For
The Enterprise
ASP.NET Core to build
web applications
designed to thrive in the
cloud Build a service
that consumes, or is
consumed by, other
services Create services
and applications that
accept external
configuration Explore
ways to secure

Online Library

Microsoft Net

Architecting

ASP.NET Core
Applications For

microservices and
The Enterprise

Architecture and
The Developer

Implementation

Architecting software

solutions using

microservices, DevOps,

and design patterns for

Azure, 2nd Edition

ASP.NET MVC 4

Recipes

A Craftsman's Guide to

Software Structure and

Online Library

Microsoft Net

Architecting

Design

C# 10 and .NET 6 –

Modern Cross-Platform

Development

Solution Architecture

with .NET

Windows Runtime via

C#

Design scalable and

high-performance

enterprise

applications using

the latest features of

C# 9 and .NET 5 Key

Online Library

Microsoft Net

Architecting
FeaturesGain

Applications For
fundamental and

The Enterprise
comprehensive

Pro Developer
software architecture

knowledge and the

skillset to create fully

modular appsDesign

high-performance

software systems

using the latest

features of .NET 5

and C# 9Solve

scalability problems

in web apps using

Online Library
Microsoft Net
Architecting
enterprise
Applications For
patternsBook
Description Software
architecture is the
practice of
implementing
structures and
systems that
streamline the
software
development process
and improve the
quality of an app.

Online Library

Microsoft Net

Architecting

Applications For

The Enterprise

For Developers

This fully revised and expanded second edition, featuring the latest features of .NET 5 and C# 9, enables you to acquire the key skills, knowledge, and best practices required to become an effective software architect. This second edition features additional

Online Library Microsoft Net Architecting Applications For The Enterprise Pro Developer

explanation of the principles of Software architecture, including new chapters on Azure Service Fabric, Kubernetes, and Blazor. It also includes more discussion on security, microservices, and DevOps, including

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Microsoft Net

Architecting

Applications For

The Enterprise

Pro Developer

GitHub deployments
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-
functional
requirements. Next,
you will explore how

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Microsoft Net

Architecting

Applications For

The Enterprise

Pro Developer

to carefully choose a cloud solution for your infrastructure, along with the factors that will help you manage your app in a cloud-based environment. Finally, you will discover software design patterns and various software approaches that will allow you to solve common

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Architecting

problems faced
during development.

By the end of 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 learnUse

different techniques

to overcome real-

Online Library

Microsoft Net

Architecting

Applications For

The Enterprise

Pro Developer

architectural

approaches such as
layered architecture,

service-oriented

architecture (SOA),

and microservices

Leverage tools such as

containers, Docker,

Kubernetes, and

Blazor to manage

Online Library
Microsoft Net
Architecting
microservices
Applications Get up to
effectively speed with Azure
The Developer for
Pro Developers tools and features for
delivering global
solutions Program
and maintain Azure
Functions using C# 9
and its latest
features Understand
when it is best to use
test-driven
development (TDD)
as an approach for

Online Library
Microsoft Net
Architecting
software
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
developers aspiring
to become architects
or looking to build

Online Library

Microsoft Net

Architecting

enterprise

applications with the

.NET Stack. Basic

familiarity with C#

and .NET is required

to get the most out of

this book.

ASP.NET MVC 4

Recipes is a practical

guide for developers

creating modern web

applications, cutting

through the

complexities of

Online Library

Microsoft Net

Architecting
Applications For

ASP.NET, jQuery,
HTML 5 to provide

Knockout.js and
For The Enterprise
Professional

straightforward

solutions to common

web development

problems using

proven methods

based on best

practices. The

problem-solution

approach gets you in,

out, and back to
work quickly while

Online Library

Microsoft Net

Architecting

Applications For

The Enterprise

Pro Developer

with it. Author John

Ciliberti guides you

through the

framework and

development tools,

presenting typical

challenges, along

with code solutions

and clear, concise

explanations, to

Online Library
Microsoft Net
Architecting
accelerate
Applications For
The Enterprise
Pro Developer
development. Inside
you will find recipes
dealing with
streamlined syntax,
full control over
HTML, a simple API
for creating RESTful
web services, writing
support for test
driven development,
and more. Solve
problems

Online Library

Microsoft Net

Architecting

Applications For

The Enterprise

Pro Developer

immediately by
pasting in code from
the recipes, or put
multiple recipe
solutions together to
overcome
challenging
development
obstacles. Dive head
first into ASP.NET
MVC web
development with
ASP.NET MVC 4
Recipes.

Online Library

Microsoft Net

Architecting
Applications For
2.0 covers such

topics as Master Web
pages, managing
user profiles, data
access, applications,
security, and
configuration.

Learn about the
responsibilities of a
.NET solution
architect and explore
solution architecture
principles, DevOps

Online Library

Microsoft Net

Architecting

Applications For

The Enterprise

Pro Developer

design patterns Key

Features Find out

what are the

essential personality

traits and

responsibilities of a

solution

architect Become well-

versed with

architecture

Online Library

Microsoft Net

Architecting

Applications For

The Enterprise

Pro Developer

Design

modern web

solutions and make

the most of Azure

DevOps to automate

your development

life cycleBook

Description

Understanding

solution architecture

is a must to build and

Online Library

Microsoft Net

Architecting

Applications For

The Enterprise

Pro Developer

integrate robust systems to meet your client's needs. This makes it crucial for a professional .NET software engineer to learn the key skills of a .NET solution architect to create a unique digital journey and build solutions for a wide range of industries, from strategy and

Online Library

Microsoft Net

Architecting

design to
Applications For
implementation. With

The Enterprise

For Developer

with the .NET

technology will be

able to put their

knowledge to work.

The book takes a

hands-on approach to

help you become an

effective solution

architect. You'll start

by learning the

Online Library
Microsoft Net
Architecting
Applications For
The Enterprise
The Developer

principles of the software development life cycle (SDLC), the roles and responsibilities of a .NET solution architect, and what makes a great .NET solution architect. As you make progress through the chapters, you'll understand the

Online Library

Microsoft Net

Architecting

principles of solution
architecture and how

to design a solution,

and explore
The Enterprise
Pro Developer

designing layers and

microservices. You'll

complete your

learning journey by

uncovering modern

design patterns and

techniques for

designing and

building digital

solutions. By the end

Online Library

Microsoft Net

Architecting

Applications For

The Enterprise

Pro Developer

solutions with

ASP.NET Core and

Microsoft Azure and

be ready to automate

your development

life cycle with Azure

DevOps. What you

will learnUnderstand

the role and core

responsibilities of a

Online Library
Microsoft Net
Architecting
.NET solution
Applications For
architectStudy
The Enterprise
popular UML
(Unified Modeling
Language) diagrams
for solution
architectureWork
with modern design
patterns with the
help of hands-on
examplesBecome
familiar with
microservices and
designing

Online Library

Microsoft Net

Architecting
layers Discover how

Applications For
to design modern

The Enterprise
web

Pro Developer
solutions Automate

your development

life cycle with Azure

DevOps Who this

book is for This book

is for intermediate

and advanced .NET

developers and

software engineers

who want to advance

their careers and

Online Library

Microsoft Net

Architecting

expand their

knowledge of For

The Enterprise

Pro Developer

principles. Beginner

or intermediate-level

solution architects

looking for tips and

tricks to build large-

scale .NET solutions

will find this book

useful.

Enterprise

Application

Online Library
Microsoft Net
Architecting
Development with
C# 9 and .NET 5
Modern Web
Development
Real-Time Web
Application
Development
Effective Use of
Microsoft Enterprise
Library
Agile Database
Techniques
Start Here! Build
Windows 8 Apps with

Online Library
Microsoft Net
Architecting
HTML5 and
JavaScript Applications For
Patterns and
Paradigms for
Scalable, Reliable
Services

In the race to compete in today's fast-moving markets, large enterprises are busy adopting new technologies for creating new

Online Library
Microsoft Net
Architecting
products,
processes, and
business models.

But one obstacle on
the road to digital
transformation is
placing too much
emphasis on
technology, and not
enough on the types
of processes
technology enables.
What if different
lines of business

Online Library

Microsoft Net

Architecting

Applications For

The Enterprise

Pro Developer

could build their own services and applications—and decision-making was distributed rather than centralized? This report explores the concept of a digital business platform as a way of empowering individual business sectors to act on

Online Library

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Architecting

data in real time.
Much innovation in
a digital enterprise

will increasingly

happen at the edge,

whether it involves
business users

(from marketers to
data scientists) or

IoT devices. To

facilitate the

process, your core

IT team can provide

these sectors with

Online Library

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Architecting

Applications For

The Enterprise

Pro Developer

the digital tools they need to innovate quickly. This report explores: Key cultural and organizational changes for developing business capabilities through cross-functional product teams A platform for integrating applications, data

Online Library

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Architecting

Applications For

The Enterprise

Pro Developer

sources, business

partners, clients,

mobile apps, social

networks, and IoT

devices Creating

internal API

programs for

building innovative

edge services in low-

code or no-code

environments Tools

including Integration

Platform as a

Service, Application

Online Library

Microsoft Net

Architecting

Platform as a
Service, and For

The Enterprise
Integration Software

as a Service The
Pro Developer

challenge of

integrating

microservices and

serverless

architectures Event-

driven architectures

for processing and

reacting to events in

real time You'll also

learn about a

Online Library

Microsoft Net

Architecting

Applications For
complete pervasive
integration solution

The Enterprise
as a core

component of a
Pro Developer

digital business

platform to serve

every audience in

your organization.

Practical Software

Architecture

Solutions from the

Legendary Robert C.

Martin ("Uncle

Bob") By applying

Online Library

Microsoft Net

Architecting

Applications For

The Enterprise

Pro Developer

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, legendary

Online Library

Microsoft Net

Architecting

software craftsman

Applications For

The Enterprise

Pro Developer

reveals those rules

and helps you apply

them. Martin's

Clean Architecture

doesn't merely

present options.

Drawing on over a

half-century of

experience in

software

environments of

Online Library

Microsoft Net

Architecting

Applications For

The Enterprise

For Developers

every imaginable type, Martin tells you what choices to make and why they are critical to your success. As you've come to expect from Uncle Bob, this book is packed with direct, no-nonsense solutions for the real challenges you'll face—the ones that will make or break

Online Library

Microsoft Net

Architecting

Applications For

The Enterprise

Pro Developer

your projects. Learn what software architects need to achieve—and core disciplines and practices for achieving it Master essential software design principles for addressing function, component separation, and data management See how programming

Online Library

Microsoft Net

Architecting

Applications For

The Enterprise

For Developers

paradigms impose discipline by restricting what developers can do Understand what's critically important and what's merely a "detail" Implement optimal, high-level structures for web, database, thick-client, console, and embedded applications Define

Online Library

Microsoft Net

Architecting

appropriate

boundaries and

layers, and organize

components and

services See why

designs and

architectures go

wrong, and how to

prevent (or fix) these

failures Clean

Architecture is

essential reading for

every current or

aspiring software

Online Library

Microsoft Net

Architecting

Applications For

The Enterprise

Pro Developer

manager—and for every programmer who must execute someone else's designs. Register your product for convenient access to downloads, updates, and/or corrections as they

Online Library

Microsoft Net

Architecting

become available.

Writing robust

enterprise

applications

presents a special

challenge for

developers, but

Microsoft has

addressed that

challenge with the

free, downloadable

Enterprise Library

for the .NET

Framework.

Online Library

Microsoft Net

Architecting

Enterprise Library is
a collection of

application blocks

and guidance

documents that

together provide

functionality

common to

enterprise

applications; each

application block

includes full source

code. Lacking in the

guidance provided

Online Library

Microsoft Net

Architecting

Applications For

The Enterprise

The Developer

blocks. Effective

Use of Microsoft

Enterprise Library is

that roadmap.

Microsoft

application

development lead

architect Len

Fenster explains

exactly how to build

Online Library
Microsoft Net
Architecting
Applications For
Enterprise Library
The Enterprise
Pro Developer
applications using
Enterprise Library
application blocks.
Fenster covers all
seven application
blocks as
implemented for
.NET Framework 1.1,
shows how to
develop and use a
new application
block, and explains
how Enterprise
Library is changing

Online Library

Microsoft Net

Architecting

for .NET Framework

2.0. Readers will

learn how the

Configuration

Application Block is

designed and can be

used at runtime to

easily read and write

configuration data

How the

Configuration

Application Block

works at design time

for all blocks How to

Online Library

Microsoft Net

Architecting

use the Data Access

Applications For

Block to create a
portable data layer

The Enterprise
How to use the

Exception Handling

Application Block to

implement a policy-

driven, application-

wide exception

handling system

How to use the

Logging and

Instrumentation

Application Block to

Online Library

Microsoft Net

Architecting

Applications For

The Enterprise

Pro Developer

log and instrument

messages

independent of the

message destination

How to add

authentication,

authorization, role

membership,

security cache, and

profile membership

features to an

application with the

Security Application

Block How to use

Online Library

Microsoft Net

Architecting

Applications For

The Enterprise

Pro Developer

add functionality to
encrypt and decrypt
data and create and
compare hashes

How to build your
own application
block and providers

that "snap" right
into Enterprise

Library Whether you
plan to extend

Enterprise Library

Online Library

Microsoft Net

Architecting

for your

organization, or just

use the existing

application blocks

to add functionality

to your architecture

in a consistent,

extensible,

integrated way, this

book will guide you

through the

complexities and

help you find a clear

path to success.

Online Library

Microsoft Net

Architecting

Applications For

The Enterprise

Developing

Design scalable and

high-performance

enterprise

applications using

the latest features of

C# 8 and .NET Core

3 Key Features

Become a software

architect capable of

creating modular

apps for specific

business needs

Design high-

performance

Online Library

Microsoft Net

Architecting

software systems

using the latest

features of C# 8 and

.NET Core 3 Solve

scalability problems

in web apps using

enterprise

architectural

patterns Book

Description

Software

architecture is the

practice of

implementing

Online Library Microsoft Net Architecting Applications For The Enterprise Pro Developer

structures and systems that streamline the software development process and improve the quality of an app. With this software architecture book, you'll follow a hands-on approach to learning various architectural

Online Library

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Architecting

Applications For

The Enterprise

Pro Developer

methods that will help you develop and deliver high-quality products. You'll begin by understanding how to transform user requirements into architectural needs and exploring the differences between functional and non-functional requirements. Next,

Online Library

Microsoft Net

Architecting

Applications For

The Enterprise

Pro Developer

you'll explore how to carefully choose a cloud solution for your infrastructure, along with covering dos and don'ts that will help you manage your app in a cloud-based environment. Later chapters will cover techniques and processes such as DevOps,

Online Library

Microsoft Net

Architecting

microservices, and
Applications For
continuous

The Enterprise
Integration, along

with providing
Pro Developer

insights into

implementing them

using Microsoft

technologies such

as ASP.NET Core,

the Entity

Framework, Cosmos

DB, and Azure

DevOps. You will

also learn about

Online Library

Microsoft Net

Architecting

Applications For

The Enterprise

Pro Developer

testing frameworks
and automation
tools that will help
you through the
development
process. Finally,
you'll discover
design patterns and
various software
approaches that will
allow you to solve
common problems
faced during
development. By the

Online Library

Microsoft Net

Architecting

Applications For

The Enterprise

For Developers

enterprise-ready

apps that meet

customers' business

needs. What you will

learn Overcome real-

world architectural

challenges and

solve design

consideration

issues Apply

Online Library

Microsoft Net

Architecting

Applications For

The Enterprise

Pro Developer
Layered Architecture, service-oriented
architecture (SOA),

and microservices
Learn to use tools

like containers,
Docker, and

Kubernetes to
manage

microservices Get
up to speed with

up to speed with

Online Library

Microsoft Net

Architecting

Applications For

The Enterprise

Pro Developer

Azure Cosmos DB
for delivering multi-
continental
solutions Learn how
to program and
maintain Azure
Functions using C#
Understand when to
use test-driven
development (TDD)
as an approach for
software
development Write
automated

Online Library

Microsoft Net

Architecting

Applications For

The Enterprise

Who this book is for

This book is for
engineers and
senior developers
aspiring to become
architects or looking
to build enterprise
applications with the
.NET Stack.

Experience with C#
and .NET is required
to understand this

Online Library
Microsoft Net
Architecting
book.
Applications For
Cloud Native
Enterprise
Patterns
Learn solution
Developer
architecture
principles and
design techniques
to build modern
.NET solutions
With ASP.NET Core,
SignalR, Docker,
and Azure
Architecting
Software Solutions

Online Library
Microsoft Net
Architecting
Using
Applications For
Microservices,
DevOps, and Design
Patterns for Azure
Cloud
Enterprise
Application
Architecture with
.NET Core
Programming
Microsoft ASP.NET
MVC
The Big Ideas
Behind Reliable,

Online Library
Microsoft Net
Architecting
Scalable, and
Applications For
Maintainable
Systems
The Enterprise

**Fully updated
for ASP.NET
MVC 3. Delve
into the
features,
principles, and
pillars of the
ASP.NET MVC fr
amework—deftl**

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Architecting

y guided by web

development

luminary Dino

Esposito.

ASP.NET MVC

forces

developers to

think in terms of

distinct compon

ents—Model,

View,

Controller—that

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***make it easier
to manage
application
complexity,
while allowing
strict control
over the
markup. Plunge
into the
framework's
internal
mechanics and***

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Architecting

gain

perspectives on

how to use this

programming

model versus

Web Forms, and

begin building

your own MVC-

based

applications

quickly.

Data is at the

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center of many challenges in system design today. Difficult issues need to be figured out, such as scalability, consistency, reliability, efficiency, and maintainability.

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In addition, we have an overwhelming variety of tools, including relational databases, NoSQL datastores, stream or batch processors, and message

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**brokers. What
are the right
choices for your
application?**

**How do you
make sense of
all these**

**buzzwords? In
this practical
and**

**comprehensive
guide, author**

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**Martin
Kleppmann
helps you
navigate this
diverse
landscape by
examining the
pros and cons of
various
technologies for
processing and
storing data.**

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Architecting

**Software keeps
changing, but
the fundamental
principles**

remain the

same. With this

book, software

engineers and

architects will

learn how to

apply those

ideas in

Online Library

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Applications For

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Pro Developer

***practice, and
how to make full
use of data in
modern***

applications.

Peer under the

hood of the

systems you

already use, and

learn how to use

and operate

them more

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Pro Developer

***effectively Make
informed
decisions by
identifying the
strengths and
weaknesses of
different tools
Navigate the
trade-offs
around
consistency,
scalability, fault***

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***tolerance, and
complexity
Understand the
distributed
systems***

***research upon
which modern
databases are
built Peek
behind the
scenes of major
online services,***

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**and learn from
their**

**architectures
Your guide to**

planning and

executing a

**complete mobile
web strategy**

Revisit your

**approach to the
mobile**

web—and

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deliver effective solutions that reach customers and clients on a variety of mobile devices. In this practical guide, web development luminary Dino Esposito shows you how to

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***develop a solid
mobile strategy
for the
enterprise,
starting with an
effective mobile
website. You'll
receive
essential
architectural
and
implementation***

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Architecting

guidance, as

well as mobile-

specific design

patterns for

building cross-

platform and

native

applications.

Discover how

to: Architect a

website

accessible from

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**many different
mobile devices
Implement
design patterns
specific to
mobile app
development
Examine tools
that enable you
to write one
codebase for
many platforms**

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**Use
technologies for
building
Windows Phone,
iPhone, and
Android apps
Develop cross-
platform app
features, such
as localization
and offline
behavior**

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**bull; bull;The
.NET Compact
Framework (CF)
brings the
power of .NET to
mobile devices,
yet there is very
little
information on
how to use it
effectively
bull;The number**

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***of developers
using the .NET
CF over the next
few years is
anticipated to
increase greatly
bull;Covers
related
important topics
such as SQL
Server 2000
Windows CE***

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edition

Applications For

Microsoft .NET -

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**Applications for
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Building

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Applications on

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A Developer's

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**Guide to DevOps
Architecture the
Right Way**

***Delve inside the
Windows Runtime
- and learn best
ways to design
and build Windows
Store apps.***

***Guided by Jeffrey
Richter, a
recognized expert***

Online Library
Microsoft Net
Architecting
***in Windows and
.NET
programming,
along with
principal Windows
consultant
Maarten van de
Bospoort, you'll
master essential
concepts. And
you'll gain
practical insights
and tips for how to***

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Architecting

Applications For

The Enterprise

For Developers

***architect, design,
optimize, and
debug your apps.***

With this book,

you will: Learn

how to consume

Windows Runtime

APIs from C#

Understand the

principles of

architecting

Windows Store

apps See how to

Online Library

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*Architecting
Applications For
The Enterprise
Pro Developer*
**build, deploy, and
secure app
packages**

**Understand how
apps are activated
and the process
model controlling
their execution**

**Study the rich
features available
when working with
files and folders**

Explore how to

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***transfer,
compress, and
encrypt data via
streams Design
apps that give the
illusion of running
using live tiles,
background
transfers, and
background tasks
Share data
between apps
using the***

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Architecting

*Clipboard and the
Share Charm Get*

Advice for

Monetizing your

apps through the

Windows Store

About This Book

Requires working

knowledge of

Microsoft .NET

Framework, C#,

and the Visual

Studio IDE

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Architecting

Applications For

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***Targeted to
programmers
building Windows
Store apps Some
chapters also
useful to those
building desktop
apps Technologies
Covered Windows
8.1 Microsoft
Visual Studio 2013
Integrate proven
performance and***

Online Library
Microsoft Net
Architecting
**scalability
techniques
throughout the
.NET application
life cycle—and
gain an edge in
building better-
performing
products. This
guide presents a
robust framework
organized by task
and role, helping**

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The Enterprise

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***developers,
architects, testers,
and administrators
prioritize and
implement the best
options at the
appropriate time. It
offers focused,
end-to-end guidan
ce—including
processes for
modeling
performance and***

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techniques for measuring, testing, and fine-tuning your applications. You'll also get tips direct from Microsoft development teams for improving the performance and scalability of managed code;

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***Microsoft
ASP.NET,
ADO.NET, and
SQL Server; Web
services; .NET
Remoting; XML;
and more. The
book features a
"How To" section
that details the
steps for a number
of specific perform
ance-related tasks,***

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***such as adding
performance
counters and
using the common
language runtime
(CLR) profiler.***

***PATTERNS &
PRACTICES***

***guides are
reviewed and
approved by
Microsoft***

engineering teams,

Online Library

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***consultants,
partners, and customers—delivering
accurate, real-
world information
that's been
technically
validated and
tested.***

***Describes Agile
Modeling Driven
Design (AMDD)
and Test-Driven***

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Pro Developer

***Design (TDD)
approaches,
database
refactoring,
database
encapsulation
strategies, and
tools that support
evolutionary
techniques Agile
software
developers often
use object and***

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Architecting
*relational database
(RDB) technology
together and as a
result must*

*overcome the
impedance*

*mismatch The
author covers*

*techniques for
mapping objects
to RDBs and for
implementing
concurrency*

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Applications For

The Enterprise

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***control, referential
integrity, shared
business logic,
security access
control, reports,
and XML An agile
foundation
describes
fundamental skills
that all agile
software
developers
require,***

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Architecting

particularly Agile

DBAs Includes For

The Enterprise

Pro Developer

object modeling,

UML data

modeling, data

normalization,

class

normalization, and

how to deal with

legacy databases

Scott W. Ambler is

author of Agile

Modeling

Online Library

Microsoft Net

Architecting
(0471202827), a

Applications For
contributing editor
with Software

Development (ww
w.sdmagazine.com

), and a featured
speaker at

software
conferences

worldwide
Summary Cloud
Native Patterns is
your guide to

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Architecting

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Pro Developer

developing strong applications that thrive in the dynamic, distributed, virtual world of the cloud. This book presents a mental model for cloud-native applications, along with the patterns, practices, and

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***tooling that set
them apart.***

***Purchase of the
print book***

includes a free

eBook in PDF,

Kindle, and ePub

formats from

Manning

Publications.

About the

Technology Cloud

platforms promise

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Architecting

the holy grail: near-zero downtime,

infinite scalability,

short feedback

cycles, fault-

tolerance, and cost

control. But how

do you get there?

By applying

cloudnative

designs,

developers can

build resilient,

Online Library

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***easily adaptable,
web-scale
distributed
applications that
handle massive
user traffic and
data loads. Learn
these fundamental
patterns and
practices, and
you'll be ready to
thrive in the
dynamic,***

Online Library

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Architecting

Applications For

The Enterprise

For Developer

***distributed, virtual
world of the cloud.***

About the Book

***With 25 years of
experience under
her belt, Cornelia
Davis teaches you
the practices and
patterns that set
cloud-native
applications apart.***

***With realistic
examples and***

Online Library

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Applications For

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Pro Developer

***expert advice for
working with apps,
data, services,
routing, and more,
she shows you
how to design and
build software that
functions
beautifully on
modern cloud
platforms. As you
read, you will start
to appreciate that***

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Architecting

cloud-native

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about the how and

why rather than

the where. What's

inside The

lifecycle of cloud-

native apps Cloud-

scale

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Architecting

versioned

services, and

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Service discovery

and dynamic

routing Managing

interactions

between services,

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and circuit

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Reader Requires

basic software

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Architecting

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Pro Developer

***design skills and
an ability to read
Java or a similar
language. About
the Author***

***Cornelia Davis is
Vice President of
Technology at
Pivotal Software. A
teacher at heart,
she's spent the
last 25 years
making good***

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**software and great
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Performance and

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Master powerful new

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Architecting

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Pro Developer

approaches to web
architecture, design,
and user experience

This book presents a
pragmatic, problem-
driven, user-focused
approach to
planning, designing,
and building
dynamic web
solutions. You'll
learn how to gain

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Architecting

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maximum value from
Design (DDD),
define optimal
supporting
architecture, and
succeed with modern
UX-first design
approaches. The
author guides you
through choosing
and implementing

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Architecting

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specific technologies and addresses key user-experience topics, including mobile-friendly and responsive design.

You'll learn how to gain more value from existing

Microsoft

technologies such as ASP.NET MVC and

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SignalR by using them alongside other technologies such as Bootstrap, AJAX, JSON, and JQuery.

By using these techniques and understanding the new ASP.NET Core 1.0, you can quickly build advanced web solutions that solve

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Architecting
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today's problems
and deliver an
outstanding user
experience.

Microsoft MVP Dino
Esposito shows you
how to: Plan
websites and web
apps to mirror real-
world social and
business processes
Use DDD to dissect

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Bootstrap Master
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persistence and
working with data
models Understand
Responsive Web

Design's pros, cons,
and tradeoffs Build
truly mobile-

friendly, mobile-
optimized websites

About This Book For
experienced

developers and

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Architecting

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solution architects
who want to plan
and develop web
solutions more
effectively Assumes
basic familiarity
with the Microsoft
web development
stack

The complete,
pragmatic guide to
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solutions with
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Programming

ASP.NET Core is the
definitive guide to
practical web-based
application
development with
Microsoft's new
ASP.NET Core
framework.

Microsoft MVP Dino

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Esposito introduces proven techniques and well-crafted example code for solving real problems with ASP.NET Core. Step by step, he guides you through using all key ASP.NET Core technologies, including MVC for

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HTML generation, .NET Core, EF Core, ASP.NET Identity, dependency injection, and much more. Esposito thoroughly covers ASP.NET Core's cross-platform capabilities and what's changed from older ASP.NET

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versions, but he doesn't stop there: he offers a complete learning path for every developer who wants to build production solutions, including mobile-specific solutions.

Microsoft MVP Dino Esposito shows how to:

- Create new

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projects and understand their structure • Set up and use the familiar MVC application model in ASP.NET Core • Write controller class code to govern all stages of request processing • Serve HTML from

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controllers, or
directly via Razor
Pages • Master the
Razor language for
quickly defining the
layout of HTML
views • Manage
cross-cutting
concerns such as
global configuration
data, error and
exception handling,

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controller class
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and writing data •

Build ASP.NET Core
Web APIs that

return JSON, XML,

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Build device-friendly

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Explore the radically
new ASP.NET Core
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and Dependency

Injection (DI)

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Celebrate

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Annie and Snowball

in this Level 2 Ready-

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to-Read story from
the Theodor Seuss
Geisel Award-
winning creators of
Henry and Mudge!
Annie loves fall and
she especially loves
Thanksgiving. There
is a big table at
Annie's house, and
she wants lots of
people around it for

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a yummy dinner. But Annie lives with just her dad and her bunny, Snowball.

She doesn't have a big family of her own. Who can she invite to share Thanksgiving?

Make the right architectural decisions up front -

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Architecting
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and improve the
quality and
reliability of your
.NET applications.

Led by two
enterprise
programming
experts, you'll learn
how to apply the
patterns and
techniques that help
control project

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complexity - and
make systems easier
to build, support,
and upgrade - right
from the start. This
Second Edition
features new deep
dives on domain
modeling, Command
Query Responsibility
Segregation (CQRS),
and event sourcing

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models. Get pragmatic architectural guidance on these topics and more: Building testability, maintainability, and security into your system early in the design Exposing business logic through a service-

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Designing
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Provides

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information on

planning,

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building Web

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with ASP.NET

and AJAX.

Implement

microservices

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starting with
their
architecture and
moving on to
their
deployment,
manageability,
security, and
monitoring. This
book focuses on
the key
scenarios where

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architecture is
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Building

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architecture
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see the key
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preferred over a
monolithic
approach. From
there, you will
explore the
critical
components and
various
deployment
options of
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Architecting

such as

Applications For

Microsoft Azure

(public cloud)

and Azure Stack

(hybrid cloud).

This includes in-

depth coverage

of developing,

deploying, and

monitoring

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Microsoft Net
Architecting
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and Azure
Kubernetes
Cluster (AKS).
This book
includes
practical
experience from
large-scale

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enterprise
deployments,
therefore it can
be a quick
reference for
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developers to
understand the
critical factors
while designing
a microservices

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LearnExplore

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the use cases of

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and monolithic

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Discover the

architecture

patterns to build

scalable, agile,

and secure

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op and deploy

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Kubernetes

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gateway

gateway

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complexities

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microservices

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Who This Book
Is For
Architects and
consultants who
work on

Microsoft Azure
and manage
large-scale
deployments.

Use this book as
your one-stop
shop for

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Architecting
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architecting a
world-class
DevOps
environment
with Microsoft
technologies.
.NET DevOps
for Azure is a
synthesis of
practices, tools,
and process
that, together,

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can equip a software organization to move fast and deliver the highest quality software. The book begins by discussing the most common challenges faced by developers in

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DevOps today
and offers
options and
proven solutions
on how to
implement
DevOps for your
team. Daily,
millions of
developers use
.NET to build
and operate

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Architecting

mission-critical
software

Applications For
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organizations

around the

world. While the

marketplace has

scores of

information

about the

technology, it is

completely up to

Online Library

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Architecting

you to put
Applications For

together all the
The Enterprise

blocks in the
Pro Developer

right way for

your

environment.

This book

provides you

with a model to

build on. The

relevant

principles are

Online Library

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Applications For

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covered first
along with how
to implement
that part of the
environment.

And while
variances in
tools, language,
or requirements
will change the
needed
implementation,

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the DevOps model is the architecture for the working environment for your team. You can modify parts of the model to customize it to your enterprise, but the

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Architecting

Applications For

The Enterprise

Pro Developer

architecture will
enable all of
your teams and
applications to
accelerate in
performance.

What You Will
Learn Get your
.NET

applications into
a DevOps
environment in

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Azure Analyze
and address the
part of your
DevOps process
that causes
delays or bottle
necks Track
code using
Azure Repos
and conduct
acceptance
tests Apply the

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rules for
segmenting
applications into
Git repositories

Understand the
different types
of builds and
when to use

each
Know how
to think about
code validation
in your DevOps

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environmentPro
Applications For
vision and
The Enterprise
configure
Pro Developer
environments;
deploy release
candidates
across the
environments in
AzureMonitor
and support
software that
has been

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deployed to a
production
environment

Who This Book

Is For .NET

Developers who

are using or

want to use

DevOps in Azure

but don't know

where to begin

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Applications For
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Guide
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