
Microsoft Net Application Architecture Guide

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Framework Design Guidelines
Sams Publishing
Not only does this book
describe the goals and
architecture of the .NET

Framework, but it also demonstrates how it implements facilities and services to meet these goals. This book shows developers how to produce generic frameworks, libraries, classes, and tools to be used in the .NET Framework.

[.NET Application Architecture Guide](#)
Microsoft Press
Architect your .NET applications by breaking them into really small pieces—microservices—using this practical, example-based guide
About This Book
Start your

microservices journey and understand a broader perspective of microservices development Build, deploy, and test microservices using ASP.Net MVC, Web API, and Microsoft Azure Cloud Get started with reactive microservices and understand the fundamentals behind it
Who This Book Is For
This book is for .NET Core developers who want to learn and understand microservices architecture and

implement it in their .NET Core applications. It's ideal for developers who are completely new to microservices or have just a theoretical understanding of this architectural approach and want to gain a practical perspective in order to better manage application complexity.
What You Will Learn
Compare microservices with monolithic applications and SOA
Identify the appropriate service boundaries by mapping them to the

relevant bounded contexts	net core	Understand what characteristics are.
Define the service interface and implement the APIs using ASP.NET Web API	Integrate the services via synchronous and asynchronous mechanisms	Implement microservices security using Azure Active Directory, OpenID Connect, and OAuth 2.0
Understand the operations and scaling of microservices in .NET Core	Understand the testing pyramid and implement consumer-driven contract using pact	the key features of reactive microservices are and implement them using reactive extension
	In Detail	Microservices is an architectural style that promotes the development of complex applications as a suite of small services based on business capabilities. This book will help you identify the appropriate service boundaries within the business. We'll start by looking at what microservices are, and what the main
		Moving forward, you will be introduced to real-life application scenarios, and after assessing the current issues, we will begin the journey of transforming this application by splitting it into a suite of microservices. You will identify the service boundaries, split the application into multiple microservices, and define the service contracts. You will find out how to configure, deploy, and monitor microservices,

and configure scaling to allow the application to quickly adapt to increased demand in the future. With an introduction to the reactive microservices, you strategically gain further value to keep your code base simple, focusing on what is more important rather than the messy asynchronous calls. Style and approach This guide serves as a stepping stone that helps .NET Core developers in their microservices architecture. This book

provides just enough theory to understand the concepts and apply the examples.

Software Architecture with C# 9 and .NET 5 Pearson Education
An in-depth scenario-driven approach to architecting systems using Microsoft technologies with this book and eBook.

Microsoft .NET - Architecting Applications for the Enterprise Microsoft Press

Gain expertise in solution architecture and master all aspects of Power Platform, from data and automation to analytics and security Key Features Become a full-

fledged Power Platform expert and lead your solutions with conviction and clarity Adopt a consistent, systematic, and advanced approach to solution architecture Work on practical examples and exercises to develop expert-level skills and prepare for certification Book DescriptionIf you've been looking for a way to unlock the potential of Microsoft Power Platform and take your career as a solution architect to the next level, then look no further—this practical guide covers it all. Microsoft Power Platform Solution Architect's Handbook will equip you with everything you need to build flexible and cost-effective end-

to-end solutions. Its comprehensive coverage ranges from best practices surrounding fit-gap analysis, leading design processes, and navigating existing systems to application lifecycle management with Microsoft Azure DevOps, security compliance monitoring, and third-party API integration. The book takes a hands-on approach by guiding you through a fictional case study throughout the book, allowing you to apply what you learn as you learn it. At the end of the handbook, you'll discover a set of mock tests for you to embed your progress and prepare for PL-600 Microsoft

certification. Whether you want to learn how to work with Power Platform or want to take your skills from the intermediate to advanced level, this book will help you achieve that and ensure that you're able to add value to your organization as an expert solution architect. What you will learn Cement the foundations of your applications using best practices Use proven design, build, and go-live strategies to ensure success Lead requirements gathering and analysis with confidence Secure even the most complex solutions and integrations Ensure compliance between the Microsoft ecosystem and

your business Build resilient test and deployment strategies to optimize solutions Who this book is for This book is for solution architects, enterprise architects, technical consultants, and business and system analysts who implement, optimize, and architect Power Platform and Dataverse solutions. It will also help anyone who needs a detailed playbook for architecting and delivering successful digital transformation projects that leverage Power Platform apps and the Microsoft business apps ecosystem. A solid understanding of Power Platform configuration and

administration, Power Automate the cloud so compelling to processes, Power Apps Portals, Canvas Apps, Dataverse Plugins, and Workflow Capabilities is expected.

Applied Architecture Patterns on the Microsoft Platform Packt Publishing Ltd

How do you start? How should you build a plan for cloud migration for your entire portfolio? How will your organization be affected by these changes? This book, based on real-world cloud experiences by enterprise IT teams, seeks to provide the answers to these questions. Here, you ' ll see what makes

enterprises; with which applications you should start your cloud journey; how your organization will change, and how skill sets will evolve; how to measure progress; how to think about security, compliance, and business buy-in; and how to exploit the ever-growing feature set that the cloud offers to gain strategic and competitive advantage.

Programming in the .NET Environment Microsoft Press "Domain-Driven Design" incorporates numerous examples in Java-case studies taken from actual projects that illustrate the application of domain-driven

design to real-world software development.

NET E-business Architecture Addison-Wesley Professional "The guide is intended to serve as a practical and convenient overview of, and reference to, the general principles of architecture and design on the Microsoft platform and the .NET Framework".

[Microsoft ADO.NET Entity Framework Step by Step](#) Addison-Wesley Professional Tapadiya takes a 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 language, and with plenty of code examples throughout, this book is an excellent way to learn.

The Definitive Guide to the Microsoft Enterprise Library
Addison-Wesley Professional
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 methodologies to enhance program-level objectives
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 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 architects who would like to leverage .NET to create effective 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 usage to

monitor performance, testability, and 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 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 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 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 effective and scalable. These chapters act as a catalyst to start the practical implementation, and design and develop applications using different architectural approaches, such as layered architecture, service oriented architecture, microservices and cloud-specific

solutions. Gradually, you will learn about the different approaches and models of the Security framework and explore various authentication models and authorization techniques, such as social media-based authentication and 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 a no-nonsense approach to show you the best tools and techniques required to become a successful software architect. The Azure Cloud Native

Architecture Mapbook Packt Publishing Ltd
Deep dive into C# and .NET architecture to build efficient, powerful applications About This Book Uniquely structured content to help you understand what goes on under the hood of .NET's managed code platform to master .NET programming Deep dive into C# programming and how the code executes via the CLR Packed with hands-on practical examples, you'll understand how to write applications to make full use of the new features of .NET 4.6, .NET Core and C# 6/7 Who This

Book Is For This book was written exclusively for .NET developers. If you've been creating C# applications for your clients, at work or at home, this book will help you develop the skills you need to create modern, powerful, and efficient applications in C#. No knowledge of C# 6/7 or .NET 4.6 is needed to follow along—all the latest features are included to help you start writing cross-platform applications immediately. You will need to be familiar with Visual Studio, though all the new features in Visual Studio 2015 will also be covered. What

You Will Learn Understand C# application from the ground up core concepts in depth, from sorting algorithms to the Big O notation Get up to speed with the latest changes in C# 6/7 Interface SQL Server and NoSQL databases with .NET Learn SOLID principles and the most relevant GoF Patterns with practical examples in C# 6.0 Defend C# applications against attacks Use Roslyn, a self-hosted framework to compile and advanced edition in both C# and Visual basic .NET languages Discern LINQ and associated Lambda expressions, generics, and delegates Design a .NET

application from the ground up Understand the internals of a .NET assembly Grasp some useful advanced features in optimization and parallelism In Detail Mastering C# and .NET Framework will take you in to the depths of C# 6.0/7.0 and .NET 4.6, so you can understand how the platform works when it runs your code, and how you can use this knowledge to write efficient applications. Take full advantage of the new revolution in .NET development, including open source status and cross-platform capability, and get to grips with

the architectural changes of CoreCLR. Start with how the CLR executes code, and discover the niche and advanced aspects of C# programming – from delegates and generics, through to asynchronous programming. Run through new forms of type declarations and assignments, source code callers, static using syntax, auto-property initializers, dictionary initializers, null conditional operators, and many others. Then unlock the true potential of the .NET platform. Learn how to write OWASP-compliant applications, how to

properly implement design patterns in C#, and how to follow the general SOLID principles and its implementations in C# code. We finish by focusing on tips and tricks that you'll need to get the most from C# and .NET. This book also covers .NET Core 1.1 concepts as per the latest RTM release in the last chapter. Style and approach This book uses hands-on practical code examples that will take you into the depths of C# and .NET. Packed with hands-on practical examples, it is great as a tutorial, or as a reference guide.

Framework Design Guidelines

Addison-Wesley Professional Use this book as your one-stop shop for architecting a world-class DevOps environment with Microsoft technologies. .NET DevOps for Azure is a synthesis of practices, tools, and process that, together, 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 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 mission-critical software systems for organizations around the world. While the marketplace has scores of information about the technology, it is completely up to you to put together all the blocks in the right way for your environment. This book provides you with a model to build on. The relevant principles are 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, 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 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 AzureAnalyze and address the part of your DevOps process that causes delays or bottlenecksTrack code using Azure Repos and conduct acceptance testsApply the rules for segmenting applications into Git repositoriesUnderstand the

different types of builds and when to use eachKnow how to think about code validation in your DevOps environmentProvision and configure environments; deploy release candidates across the environments in AzureMonitor and support software that has been 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 Application Architecture for .NET Packt Publishing Ltd Celebrate Thanksgiving with Annie and Snowball in this

Level 2 Ready-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 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?

Solution Architecture with

.NET Addison-Wesley

Professional

Presents programming techniques using the common

language runtime of Microsoft .NET Framework.

Clean Architecture Packt Publishing Ltd

Build the skills to apply Microsoft .NET collections effectively Put .NET collections to work—and manage issues with GUI data binding, threading, data querying, and storage. Led by a data collection expert, you'll gain task-oriented guidance, exercises, and extensive code samples to tackle common problems and improve application performance.

This one-stop reference is designed for experienced Microsoft Visual Basic and C# developers—whether you 're already using collections or just starting out. Discover how to:

Implement arrays, associative arrays, stacks, linked lists, and other collection types Apply built in .NET collection classes by learning their methods and properties Add enumerator, dictionary, and other .NET collection interfaces to your classes Query collections by writing simple to complex Microsoft LINQ statements Synchronize data across threads using built in .NET synchronization classes Enhance your custom collection classes with serialization support Use simple data binding to display collections in Windows Forms, Microsoft Silverlight, and Windows Presentation Foundation Improving .NET Application Performance and Scalability

Packt Publishing Ltd

Improve your Azure architecture practice and set out on a cloud and cloud-native journey with this Azure cloud native architecture guide Key FeaturesDiscover the key drivers of successful Azure architectureImplement architecture maps as a compass to tackle any challengeUnderstand architecture maps in detail with the help of practical use casesBook Description Azure offers a wide range of services that enable a million ways to architect your solutions. Complete with original maps and expert analysis, this book will help you to explore Azure and choose the best solutions for your unique requirements. Starting with the

key aspects of architecture, this book shows you how to map different architectural perspectives and covers a variety of use cases for each architectural discipline. You'll get acquainted with the basic cloud vocabulary and learn which strategic aspects to consider for a successful cloud journey. As you advance through the chapters, you'll understand technical considerations from the perspective of a solutions architect. You'll then explore infrastructure aspects, such as network, disaster recovery, and high availability, and leverage Infrastructure as Code (IaC) through ARM templates, Bicep, and Terraform. The book also guides you through cloud design

patterns, distributed architecture, and ecosystem solutions, such as Dapr, from an application architect's perspective. You'll work with both traditional (ETL and OLAP) and modern data practices (big data and advanced analytics) in the cloud and finally get to grips with cloud native security. By the end of this book, you'll have picked up best practices and more rounded knowledge of the different architectural perspectives. What you will learnGain overarching architectural knowledge of the Microsoft Azure cloud platformExplore the possibilities of building a full Azure solution by considering different architectural perspectivesImplement best

practices for architecting and deploying Azure infrastructure. Review different patterns for building a distributed application with ecosystem frameworks and solutions. Get to grips with cloud-native concepts using containerized workloads. Work with AKS (Azure Kubernetes Service) and use it with service mesh technologies to design a microservices hosting platform. Who this book is for: This book is for aspiring Azure Architects or anyone who specializes in security, infrastructure, data, and application architecture. If you are a developer or infrastructure engineer looking to enhance your Azure knowledge, you'll find this

book useful. *.NET DevOps for Azure* Packt Publishing Ltd. A .NET developer's guide to crafting robust, maintainable, and flexible web apps by leveraging C# 9 and .NET 5 features and component-scale and application-scale design patterns. Key Features: Apply software design patterns effectively, starting small and progressing to cloud-scale. Discover modern application architectures such as vertical slice, clean architecture, and event-driven microservices. Explore ASP.NET design patterns, from options to full-stack web development using Blazor. Book Description: Design patterns are a set of solutions to many of the

common problems occurring in software development. Knowledge of these design patterns helps developers and professionals to craft software solutions of any scale. *ASP.NET Core 5 Design Patterns* starts by exploring basic design patterns, architectural principles, dependency injection, and other ASP.NET Core mechanisms. You'll explore the component scale as you discover patterns oriented toward small chunks of the software, and then move to application-scale patterns and techniques to understand higher-level patterns and how to structure the application as a whole. The book covers a range of significant GoF (Gangs of Four) design patterns such as strategy,

singleton, decorator, facade, and composite. The chapters are organized based on scale and topics, allowing you to start small and build on a strong base, the same way that you would develop a program. With the help of use cases, the book will show you how to combine design patterns to display alternate usage and help you feel comfortable working with a variety of design patterns. Finally, you ' ll advance to the client side to connect the dots and make ASP.NET Core a viable full-stack alternative. By the end of the book, you ' ll be able to mix and match design patterns and have learned how to think about architecture and how it works. What you will learn Apply the

SOLID principles for building flexible and maintainable softwareGet to grips with .NET 5 dependency injectionWork with GoF design patterns such as strategy, decorator, and compositeExplore the MVC patterns for designing web APIs and web applications using RazorDiscover layering techniques and tenets of clean architectureBecome familiar with CQRS and vertical slice architecture as an alternative to layeringUnderstand microservices, what they are, and what they are notBuild ASP.NET UI from server-side to client-side BlazorWho this book is for This design patterns book is for intermediate-level software and

web developers with some knowledge of .NET who want to write flexible, maintainable, and robust code for building scalable web applications. Knowledge of C# programming and an understanding of web concepts like HTTP is necessary. Developing Microservices Architecture on Microsoft Azure with Open Source Technologies Addison-Wesley This is the eBook of the printed book and may not include any media, website access codes, or print supplements that may come packaged with the bound 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 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, 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 canvas, move through software architecture and design, adjusting to user feedback, recovering from mistakes, builds, testing, deployment, maintenance, refactoring, and more. Along the way, you'll learn techniques for delivering state-of-the-art software to users more rapidly and repeatably than ever before.

Mastering C# and .NET Framework Packt Publishing Ltd

Integrate proven performance and 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 developers, architects, testers, and administrators prioritize and implement the best options at the appropriate time. It offers focused, end-to-end guidance--including processes for modeling performance and 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; 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 performance-related tasks, such as adding performance counters and using the common language runtime (CLR) profiler. PATTERNS & PRACTICES guides are reviewed and approved by Microsoft engineering teams, consultants, partners, and customers--delivering accurate, real-world information that's been technically validated and tested.

Effective Use of Microsoft Enterprise Library Apress Build robust, scalable ASP.NET applications quickly

and easily.
Enterprise Application Architecture with .NET Core
Prentice Hall
Learn about the responsibilities of a .NET solution architect and explore solution architecture principles, DevOps solutions, and design techniques and standards with hands-on examples of design patterns Key Features Find out what are the essential personality traits and responsibilities of a solution architect Become well-versed with architecture principles and modern design patterns with hands-on examples Design

modern web solutions and make the most of Azure DevOps to automate your development life cycle Book Description Understanding solution architecture is a must to build and 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 design to implementation. With this handbook, developers working 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 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 principles of solution architecture and how to design a solution, and explore 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 of this book, you'll have learned how to architect your modern web solutions with ASP.NET Core and Microsoft Azure and be ready to automate your development life cycle with Azure DevOps. What you will learn Understand the role and core responsibilities of a .NET solution architect Study popular UML (Unified Modeling Language) diagrams for solution architecture Work with modern design patterns with the help of hands-on

examples Become familiar with microservices and designing layers Discover how to design modern web 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 expand their knowledge of solution architecture and design principles. Beginner or intermediate-level solution architects looking for tips and tricks to build large-scale .NET solutions will find this book useful.