Microsoft Net Application Architecture Guide

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Patterns of Enterprise Application Architecture Addison-Wesley Professional
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 FeaturesFind out what are the essential personality traits and responsibilities of a solution architectBecome well-versed with architecture principles and modern design patterns with hands-on examplesDesign 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 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 learnUnderstand the role and core responsibilities of a .NET solution architectStudy 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 layersDiscover how to design modern web solutionsAutomate your development life cycle with Azure DevOpsWho 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.

Reengineering .NET Microsoft Press
A software architect’s 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 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 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 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 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.

Microsoft .NET - Architecting Applications for the Enterprise **Microsoft Press**
A practical tutorial containing clear, step-by-step explanations of all the concepts required to understand the technology involved in virtualizing your application infrastructure. Each chapter uses real-world scenarios so that the readers can put into practice what they learn immediately and with the right guidance. Each topic is written defining a common need and developing the process to solve it using Microsoft App-V. This book is for system administrators or consultants who want to master and dominate App-V, and gain a deeper understanding of the technology in order to optimize App V implementations. Even though the book does not include basic steps like installing App-V components or sequencing simple applications; application virtualization beginners will receive a comprehensive look into App-V before jumping into the technical process of each chapter.

Smart Client Architecture and Design Guide Manning
Build robust, scalable ASP.NET applications quickly and easily.

Application Architecture for .NET Packt Publishing Ltd
How can you create an application that has truly global reach, and can scale rapidly to meet sudden massive spikes in demand? Historically, companies had to invest in an infrastructure capable of supporting such an application themselves, and plan for peak demand-which often means that much of the capacity sits idle for much of the time. Typically, only large companies would have the available resources to risk such an enterprise. The cloud has changed the rules of the game. By making infrastructure available on a "pay as you go" basis, creating a massively scalable, global application is within the reach of both large and small companies. Yes, by moving applications to the cloud you're giving up some control and autonomy, but you're also going to benefit from reduced costs, increased flexibility, and scalable computation and storage. This guide is the third release of the second volume in a series about Windows Azure. It demonstrates how you can create from scratch a multi-tenant, Software as a Service (SaaS) application to run in the cloud by using the Windows Azure tools and the increasing range of capabilities of Windows Azure. The guide focuses on both good practice design and the practicalities of implementation for multi-tenant applications, but also contains a wealth of information on factors such as security, scalability, availability, and elasticity that are relevant to all types of cloud hosted applications. The guide is intended for any architect, developer, or information technology (IT) professional who designs, builds, or operates applications and services that run on or interact with the cloud. Although applications do not need to be based on the Windows operating system to work in Windows Azure, or be written using a .NET language, this guide is written for people who work with Windows based systems. You should be familiar with the .NET Framework, Visual Studio, ASP.NET MVC, and Visual C#.

Enterprise Solution Patterns Using Microsoft .NET Version 2.0 Addison-Wesley Professional
"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.

Microsoft ADO.NET Entity Framework Step by Step Microsoft Press
Presents programming techniques using the common language runtime of Microsoft .NET Framework.

ASP.NET 3.5 Application Architecture and Design Packt Publishing
Practical Software Architecture Solutions from the Legendary Robert C. Martin (“ Uncle Bob ”) By applying universal rules of software architecture, you can dramatically improve developer productivity throughout the life of any software system. Now, building upon the success of his best-selling books Clean Code and The Clean Coder, legendary software craftsman Robert C. Martin (“ Uncle Bob ”) 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 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 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 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 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 architect, systems analyst, system designer, and software 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 become available.

Architecting Microsoft Azure Solutions - Exam Guide 70-535 Microsoft patterns & practices
This 2nd Edition of Murachs ASP.NET Core MVC does a better job than ever of delivering the skills you need to develop websites using the MVC (Model-View-Controller) pattern with ASP.NET Core. If you know the basics of C#, youll quickly learn to code the way todays top web professionals do. Each section features clear, beginner-friendly examples and easy-to-understand explanations that walk you through crucial skills, best practices, and helpful tips. Im a first-time customer who has recently purchased your ASP.NET Core MVC book, and I have to say Im greatly impressed. [It] was actually fun from start to finish (and I've read many, many programming books before). - Shannon Fairchild, Senior Software Developer, Kingston, Ontario, Canada Section 1 (just 5 chapters) shows how to develop responsive web apps that follow the MVC pattern so theyll be easy to maintain as they grow and change. Then, it shows how to test and debug these apps using the debugging tools provided by Visual Studio and your browser. Section 2 builds out that set of skills to create more complex controllers, work with Razor views, handle cookies and sessions, work with model binding, validate data, and use EF Core to work with databases. Finally, section 3 presents additional skills that you can learn when you need them. Automate testing by using dependency injection and unit tests. Reduce code duplication by creating custom tag helpers and view components. Control user access to a site with ASP.NET Core Identity. Deploy a site to the cloud with Azure. And use Visual Studio Code, an increasingly popular alternative to the Visual Studio IDE. Every Murach book guarantees high quality. The complete apps show how each feature works in context. The exercises at the end of each chapter let you practice your new skills and gain valuable hands-on experience. And the distinctive paired-pages format is ideal for learning and reference.

C#.Net Developer's Guide Packt Publishing Ltd
Fully updated for ASP.NET MVC 3. Delve into the features, principles, and pillars of the ASP.NET MVC framework—deftly guided by web development luminary Dino Esposito. ASP.NET MVC forces developers to think in terms of distinct components—Model, View, Controller—that make it easier to manage application complexity, while allowing strict control over the markup. Plunge into the framework ’ s internal mechanics and gain perspectives on how to use this programming model versus Web Forms, and begin building your own MVC-based applications quickly.

Murach's ASP.NET Core MVC (2nd Edition) Prentice Hall
Cloud applications have a unique set of characteristics. They run on commodity hardware, provide services to untrusted users, and deal with unpredictable workloads. These factors impose a range of problems that you, as a designer or developer, need to resolve. Your applications must be resilient so that they can recover from failures, secure to protect services from malicious attacks, and elastic in order to respond to an ever changing workload. This guide demonstrates design patterns that can help you to solve the problems you might encounter in many different areas of cloud application development. Each pattern discusses design considerations, and explains how you can implement it using the features of Windows Azure. The patterns are grouped into categories: availability, data management, design and implementation, messaging, performance and scalability, resilience, management and monitoring, and security. You will also see more general guidance related to these areas of concern. It explains key concepts such as data consistency and asynchronous messaging. In addition, there is useful guidance and explanation of the key considerations for designing features such as data partitioning, telemetry, and hosting in multiple datacenters. These patterns and guidance can help you to improve the quality of applications and services you create, and make the development process more efficient. Enjoy!

.NET Patterns Packt Publishing Ltd
ForewordBy Diego Vega (Program Manager, Microsoft Corp., Redmond, Seattle, U.S.)By the time we released the first version of Entity Framework we were constantly getting feedback from the DDD Community about things that were missing in EF. The main issues were blockers for practicing DDD with EF, such as lack of Persistence Ignorance support, difficulties of testability and high friction in some areas of the API. Members of the DDD Community and the EF team spent considerable time discussing and cross-educating each other these subjects and on the true potential of EF. This had a strong influence in the second version of the EF, called EF 4.0, and the improvements that later crystallized in EF 4.1, which included massive improvements intended to address many of those concerns. EF is still going to evolve to improve the experience and to make it easier to fall into what many like to call the "Pit of Success" of software development. But in EF 4 we already reached an important turning point: When customers pick EF for using it in their applications, they often come to us to ask for best practices, e.g. how to implement things with less and more maintainable code. Many of these customers now learn about concepts like Persistence Ignorance and Testability for the first time in our forums, blogs and conference talks! Therefore we are always looking for ways to disseminate this information.This book is a necessary and great attempt to distill the existing body of best practices for doing DDD with EF. I hope it will be very useful for those customers in need of such kind of guidance. Like EF, I hope this book will also evolve over time to accommodate new knowledge and scenarios. I am looking forward to seeing the impact of this initial work, as well as other things coming from the authors in the future.Target audience of the GuideThis guide is targeted to the people involved in the entire lifecycle of software products or corporate applications with custom development. Specially, the following roles are applicable: Software Architect Lead Developer and Developer

N-Layered Domain-Oriented Architecture Guide with .Net 4.0 Packt Publishing Ltd
Get certified as an Azure architect by acing the 70-535 Architecting Microsoft Solutions (70-535) exam using this comprehensive guide with full coverage of the exam objectives Key Features Learn to successfully design and architect powerful solutions on the Azure Cloud platform Enhance your skills with mock tests and practice questions A detailed certification guide that will help you ace the 70-535 exam with confidence Book Description Architecting Microsoft Azure Solutions: Exam Guide 70-535 will get Azure architects and developers up-to-date with the latest updates on Azure from an architecture and design perspective. The book includes all the topics that are still relevant from the previous 70-534 exam, and is updated with latest topics covered, including Artificial Intelligence, IoT, and architecture styles. This exam guide is divided into six parts, where the first part will give you a good understanding of how to design a compute infrastructure. It also dives into designing networking and data implementations. You

will learn about designing solutions for Platform Service and operations. Next, you will be able to secure your resources and data, as well as design a mechanism for governance and policies. You will also understand the objective of designing solutions for Platform Services, by covering Artificial Intelligence, IoT, media services, and messaging solution concepts. Finally, you will cover the designing for operations objective. This objective covers application and platform monitoring, as well as designing alerting strategies and operations automation strategies. By the end of the book, you'll have met all of the exam objectives, and will have all the information you need to ace the 70-535 exam. You will also have become an expert in designing solutions on Microsoft Azure. What you will learn Use Azure Virtual Machines to design effective VM deployments Implement architecture styles, like serverless computing and microservices Secure your data using different security features and design effective security strategies Design Azure storage solutions using various storage features Create identity management solutions for your applications and resources Architect state-of-the-art solutions using Artificial Intelligence, IoT, and Azure Media Services Use different automation solutions that are incorporated in the Azure platform Who this book is for This book is for architects and experienced developers, who are gearing up for the 70-535 exam. Technical architects interested in learning more about designing Cloud solutions will also find this book useful.

Microsoft Power Platform Enterprise Architecture Elsevier

Microsoft Azure Essentials from Microsoft Press is a series of free ebooks designed to help you advance your technical skills with Microsoft Azure. The first ebook in the series, Microsoft Azure Essentials: Fundamentals of Azure, introduces developers and IT professionals to the wide range of capabilities in Azure. The authors - both Microsoft MVPs in Azure - present both conceptual and how-to content for key areas, including: Azure Websites and Azure Cloud Services Azure Virtual Machines Azure Storage Azure Virtual Networks Databases Azure Active Directory Management tools Business scenarios Watch Microsoft Press ' s blog and Twitter (@MicrosoftPress) to learn about other free ebooks in the " Microsoft Azure Essentials " series.

ASP.NET Core Application Development Pearson Education

Get expert guidance on patterns—simple, proven mechanisms by which software professionals can share important architectural tradeoffs and design decisions—and help reduce the complexity of building high-performance, enterprise-class business solutions. Focusing on architectural, design, and implementation patterns for Microsoft .NET, this guide captures the knowledge of seasoned developers and shares their time-tested patterns and best practices. Developers and architects learn how to use individual patterns for specific technical scenarios, as well as how to combine patterns to build more complex solutions. All 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.

Building Cloud Apps with Microsoft Azure O'Reilly Media, Inc.

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.

.NET DevOps for Azure Packt Publishing Ltd

Reengineer .NET Code to Improve Quality, Update Architecture, Access New Tools, and Accelerate Delivery of New Features As software ages, it becomes brittle: difficult to understand, fix, manage, use, and improve. Developers working with many platforms have encountered this problem; now, developers working with Microsoft ' s .NET are facing it as well. In Reengineering .NET, leading .NET architect Bradley Irby introduces proven best practices for revitalizing older .NET code and integrating new architectural and development advances into business-critical systems that can ' t go offline. Using a step-by-step approach, .NET professionals can make legacy enterprise software more reliable, maintainable, attractive, and usable—and make it easier to upgrade for years to come. Through real-world case studies and extensive downloadable sample code, Irby shows how to carefully plan a .NET reengineering project, understand the true current state of your code, introduce unit testing and other agile methods, refactor to services and controllers, and leverage powerful .NET reengineering tools built into Microsoft Visual Studio 2012. This book is an indispensable resource for all developers, architects, and project managers responsible for existing .NET code bases and for a wide audience of non-technical managers and CTOs who want to understand the unique challenges faced by .NET teams involved in application or system reengineering projects. Coverage includes • Migrating legacy .NET software to more flexible, extensible, and maintainable architectures—without breaking it • Reengineering web applications with the MVC pattern, Winforms software with MVP, and WPF/Silverlight systems with MVVM • Asking the right questions to predict refactoring problems before they happen • Planning and organizing reengineering projects to apply the right expertise to each task at the right time • Using innovative Test Doubling to make unit testing even more effective • Applying Dependency Inversion to break tight coupling and promote easier development and testing • Leveraging source control, defect tracking, and continuous integration • " Cleaning up " legacy solutions to improve them before you even touch business logic • Establishing solid development infrastructure to support your reengineering project • Refactoring to services—including advanced techniques using Repositories, Domain Models, and the Command Dispatcher • Refactoring to controller/view or ViewModel/View pairs

Programming Microsoft ASP.NET MVC Packt Publishing Ltd

Get expert guidance for designing and building smart client applications on the Microsoft ® .NET Framework, including handling data, connecting to the back end, offline functionality, security features, multithreading, deployment, and performance.

Improving .NET Application Performance and Scalability Prentice Hall 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

Enterprise Application Architecture with .NET Core Microsoft Press

This ebook walks you through a patterns-based approach to building real-world cloud solutions. The patterns apply to the development process as well as to architecture and coding practices. The content is based on a presentation developed by Scott Guthrie and delivered by him at the Norwegian Developers Conference (NDC) in June of 2013 (part 1, part 2), and at Microsoft Tech Ed Australia in September 2013 (part 1, part 2). Many others updated and augmented the content while transitioning it from video to written form. Who should read this book Developers who are curious about developing for the cloud, are considering a move to the cloud, or are new to cloud development will find here a concise overview of the most important concepts and practices they need to know. The concepts are illustrated with concrete examples, and each chapter includes links to other resources that provide more in-depth information. The examples and the links to additional resources are for Microsoft frameworks and services, but the principles illustrated apply to other web development frameworks and cloud environments as well. Developers who are already developing for the cloud may find ideas here that will help make them more successful. Each chapter in the series can be read independently, so you can pick and choose topics that you're interested in. Anyone who watched Scott Guthrie's "Building Real World Cloud Apps with Windows Azure" presentation and wants more details and updated information will find that here. Assumptions This ebook expects that you have experience developing web applications by using Visual Studio and ASP.NET. Familiarity with C# would be helpful in places.