

Msdn Architecture Guide

Building Secure Microsoft ASP.NET Applications
The Definitive Guide to the Microsoft Enterprise Library
Practical SharePoint 2010 Information Architecture
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Analyzing Requirements and Defining Solution Architectures
MCSA 70-687 Cert Guide
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Microsoft Application Architecture Guide
N-Layered Domain-Oriented Architecture Guide with .Net 4.0
Enterprise Integration Patterns
Survival Guide to Web Site Development
Domain-driven Design
Cloud Design Patterns
Collaborative Enterprise Architecture
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Designing Distributed Systems
Building Solutions with the Microsoft .NET Compact Framework
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MCAD/MCSD Training Guide (70-315)
Game AI Pro 360: Guide to Architecture
Container Security
Software Architecture in Practice
Enterprise Application Architecture with .NET Core
Microsoft .NET - Architecting Applications for the Enterprise
Architecting Microsoft Azure Solutions - Exam Guide 70-535
CISSP All-in-One Exam Guide, Fifth Edition
Architecting Mobile Solutions for the Enterprise
MSDN Magazine
Micro Frontends in Action
Performance Tuning and Optimizing ASP.NET Applications
A Comprehensive Guide to Enterprise Mobility
Professional ASP.NET Design Patterns
Dojo:

The Definitive GuideApplication Architecture for .NETCOBOL and Visual Basic on .NET

Building Secure Microsoft ASP.NET Applications

This book introduces one of the most exciting and popular .NET-oriented initiatives; the Enterprise Application Library, which offers nine classes of reusable code used to solve a variety of common problem spaces. It is the first book to introduce all ten of the enterprise application blocks, which have been recently updated for .NET 2.0. It covers a number of topics, including configuration, data access, exception management, caching, application updates, UI separation, asynchronous invocation, logging, security, and XML-based information aggregation. With this book readers will be able to build .NET applications faster and more efficiently.

The Definitive Guide to the Microsoft Enterprise Library

Your guide to planning and executing a complete mobile web strategy Revisit your approach to the mobile web—and 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 develop a solid mobile strategy for the enterprise, starting with an effective mobile website. You'll receive essential architectural and implementation guidance, as well as

mobile-specific design patterns for building cross-platform and native applications. Discover how to: Architect a website accessible from many different mobile devices Implement design patterns specific to mobile app development Examine tools that enable you to write one codebase for many platforms Use technologies for building Windows Phone, iPhone, and Android apps Develop cross-platform app features, such as localization and offline behavior

Practical SharePoint 2010 Information Architecture

Would you like to use a consistent visual notation for drawing integration solutions? "Look inside the front cover." Do you want to harness the power of asynchronous systems without getting caught in the pitfalls? "See "Thinking Asynchronously" in the Introduction." Do you want to know which style of application integration is best for your purposes? "See Chapter 2, Integration Styles." Do you want to learn techniques for processing messages concurrently? "See Chapter 10, Competing Consumers and Message Dispatcher." Do you want to learn how you can track asynchronous messages as they flow across distributed systems? "See Chapter 11, Message History and Message Store." Do you want to understand how a system designed using integration patterns can be implemented using Java Web services, .NET message queuing, and a TIBCO-based publish-subscribe architecture? "See Chapter 9, Interlude: Composed Messaging." Utilizing years of practical experience, seasoned experts Gregor Hohpe

and Bobby Woolf show how asynchronous messaging has proven to be the best strategy for enterprise integration success. However, building and deploying messaging solutions presents a number of problems for developers. "Enterprise Integration Patterns" provides an invaluable catalog of sixty-five patterns, with real-world solutions that demonstrate the formidable of messaging and help you to design effective messaging solutions for your enterprise. The authors also include examples covering a variety of different integration technologies, such as JMS, MSMQ, TIBCO ActiveEnterprise, Microsoft BizTalk, SOAP, and XSL. A case study describing a bond trading system illustrates the patterns in practice, and the book offers a look at emerging standards, as well as insights into what the future of enterprise integration might hold. This book provides a consistent vocabulary and visual notation framework to describe large-scale integration solutions across many technologies. It also explores in detail the advantages and limitations of asynchronous messaging architectures. The authors present practical advice on designing code that connects an application to a messaging system, and provide extensive information to help you determine when to send a message, how to route it to the proper destination, and how to monitor the health of a messaging system. If you want to know how to manage, monitor, and maintain a messaging system once it is in use, get this book.

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.NET 4 for Enterprise Architects and

Developers

The practice of enterprise application development has benefited from the emergence of many new enabling technologies. Multi-tiered object-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 experienced object developers have learned. Patterns of Enterprise Application 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 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 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 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 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 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

Analyzing Requirements and Defining Solution Architectures

To facilitate scalability and resilience, many organizations now run applications in cloud native environments using containers and orchestration. But how do you know if the deployment is secure? This practical book examines key underlying technologies to help developers, operators, and security professionals assess security risks and determine appropriate solutions. Author Liz Rice, VP of open source engineering at Aqua Security, looks at how the building blocks commonly used in container-based systems are constructed in Linux. You'll understand what's happening when you deploy containers and learn how to assess potential security risks that could affect your deployments. If you run container applications with kubectl or docker and use Linux command-line tools such as ps and grep, you're ready to get started. Explore attack vectors that affect

container deployments Dive into the Linux constructs that underpin containers Examine measures for hardening containers Understand how misconfigurations can compromise container isolation Learn best practices for building container images Identify container images that have known software vulnerabilities Leverage secure connections between containers Use security tooling to prevent attacks on your deployment

MCSA 70-687 Cert Guide

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

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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 Guide This 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

Azure for Architects

This is the eagerly-anticipated revision to one of the seminal books in the field of software architecture which clearly defines and explains the topic.

IBM i2 Integrated Law Enforcement: Technical Architecture and Deployment Guide

Practical SharePoint 2010 Information Architecture is a guide and tool set for planning and documenting

the scope, navigational taxonomy, document taxonomy, metadata, page layouts and workflows for a successful SharePoint 2010 project. If you have been tasked with delivering an intranet for collaboration, document management or as a corporate portal, your only chance for success is to get all of these elements right, and then to make sure that you and your stakeholders are all on the same page. SharePoint 2010 can be dangerous to your career: Expectations are often set very high, and not enough time is invested in understanding how those expectations can be met. Many SharePoint 2010 projects fail to meet their initial goals. Practical SharePoint 2010 Information Architecture arms you with proven tools that will help you to ensure that there is an agreement on the goals and scope, and how to then efficiently design your taxonomies. With author Ruven Gotz' work (with contributions from Michal Pisarek and Sarah Haase) at your side, You will learn how to educate your users on what metadata is and why it is important so you can build SharePoint 2010 solutions that exceed the expectations of your users. This book: Gives you practical approaches that have been proven in the field Explains how to use visual mind mapping tools and diagramming tools that provide clarity to all stakeholders Gives you techniques on how to teach and motivate your users for adoption and success

Fowler

Mary Haggard's insightful book, which grows out of a series of enthusiastically received articles that appear

at the SiteBuilder Web site, is aimed at helping Webmasters and computer professionals gain a winning edge on building and managing a commercial Web site. The book sorts out the jumble of marketing messages and technology claims that overwhelm would-be site builders.

Improving .NET Application Performance and Scalability

This is the eBook version of the print title. Note that the eBook does not provide access to the practice test software that accompanies the print book. *Learn, prepare, and practice for MCSA 70-687 exam success with this Cert Guide from Pearson IT Certification, a leader in IT certification. Master MCSA 70-687 exam topics for Windows 8.1 configuration Assess your knowledge with chapter-ending quizzes Review key concepts with exam preparation tasks MCSA 70-687 Cert Guide: Configuring Microsoft® Windows 8.1 is a best-of-breed exam study guide. Best-selling authors and expert instructors Don Poulton, Randy Bellet, and Harry Holt share preparation hints and test-taking tips, helping you identify areas of weakness and improve both your conceptual knowledge and hands-on skills. Material is presented in a concise manner, focusing on increasing your understanding and retention of exam topics. *The book presents you with an organized test preparation routine through the use of proven series elements and techniques. Exam topic lists make referencing easy. Chapter-ending Exam Preparation Tasks help you drill on key concepts you must know thoroughly. Review**

questions help you assess your knowledge, and a final preparation chapter guides you through tools and resources to help you craft your final study plan. *¿* Well-regarded for its level of detail, assessment features, and challenging review questions and exercises, this study guide helps you master the concepts and techniques that will enable you to succeed on the exam the first time. *¿* The study guide helps you master all the topics on the MCSA 70-687 exam, including the following: Windows 8.1 introduction Hardware readiness and compatibility Installation and upgrades, including VHDs Migrating users, profiles, and applications Configuring devices and device drivers Installing, configuring, and securing applications Configuring Internet Explorer Configuring Hyper-V virtualization Configuring TCP/IP, network settings, and network security Configuring and securing access to files and folders, including OneDrive and NFC Configuring local security, authentication, and authorization Configuring remote connections and management Configuring and securing mobile devices Configuring Windows Updates Managing disks, backups, and system/file recovery Managing/monitoring system performance *¿*

Pro Power BI Architecture

The authors make performance issues the central topic, with very in-depth discussion and examples.

Framework Design Guidelines

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!

Microsoft Application Architecture Guide

0789728222.Id The authoritative solution to passing the 70-315 exam! Amit Kalani is a leading authority

on C#. Training Guides are the most effective self-study guide in the marketplace, featuring exam tips, study strategies, review exercises, case studies, practice exams, ExamGear testing software, and more. Subjected to rigorous technical review by a team of industry experts, ensuring content is superior in both coverage and technical accuracy. This certification exam measures the ability to develop and implement Web-based applications with Web forms, ASP.NET, and the Microsoft .NET Framework. This exam counts as a core credit toward the new MCAD (Microsoft Certified Application Developer) certification as well as a core credit toward the existing MCSD certification. Readers preparing for this exam find our Training Guides series to be the most successful self-study tool in the market. This book is their one-stop shop because of its teaching methodology, the accompanying ExamGear testing software, and superior Web site support at www.quepublishing.com/certification. The CD features our ExamGear product (test simulation with more than 150 practice questions) and an electronic copy of the book. Amit Kalani (MCSD, MCP) has been actively programming using Microsoft .NET Framework since it was in its beta. He is a contributing author and technical reviewer for several popular books on C#, VB.NET and ASP.NET. Amit has a passion for sharing his knowledge. He has designed and delivered courses that have helped many developers prepare for certification exams from Microsoft and other organizations. Amit is a Bachelor of Science and is a Microsoft Certified Professional.

N-Layered Domain-Oriented Architecture Guide with .Net 4.0

Steve Rabin's Game AI Pro 360: Guide to Architecture gathers all the cutting-edge information from his previous three Game AI Pro volumes into a convenient single source anthology covering game AI architecture. This volume is complete with articles by leading game AI programmers that further explore modern architecture such as behavior trees and share architectures used in top games such as Final Fantasy XV, the Call of Duty series and the Guild War series. Key Features Provides real-life case studies of game AI in published commercial games Material by top developers and researchers in Game AI Downloadable demos and/or source code available online

Enterprise Integration Patterns

Architect and deploy a Power BI solution. This book will help you understand the many available options and choose the best combination for hosting, developing, sharing, and deploying a Power BI solution within your organization. Pro Power BI Architecture provides detailed examples and explains the different methods available for sharing and securing Power BI content so that only intended recipients can see it. Commonly encountered problems you will learn to handle include content unexpectedly changing while users are in the process of creating reports and building analysis, methods of sharing analyses that don't cover all the requirements of your business or organization, and inconsistent

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security models. The knowledge provided in this book will allow you to choose an architecture and deployment model that suits the needs of your organization, ensuring that you do not spend your time maintaining your solution but on using it for its intended purpose and gaining business value from mining and analyzing your organization's data. What You'll Learn Architect and administer enterprise-level Power BI solutions Choose the right sharing method for your Power BI solution Create and manage environments for development, testing, and production Implement row level security in multiple ways to secure your data Save money by choosing the right licensing plan Select a suitable connection type—Live Connection, DirectQuery, or Scheduled Refresh—for your use case Set up a Power BI gateway to bridge between on-premises data sources and the Power BI cloud service Who This Book Is For Data analysts, developers, architects, and managers who want to leverage Power BI for their reporting solution

Survival Guide to Web Site Development

Domain-driven Design

Your one stop guide to making the most out of Azure Cloud About This Book Get familiar with the different design patterns available in Microsoft Azure Develop Azure cloud architecture and a pipeline management system Get to know the security best practices for your Azure deployment Who This Book Is For If you are Cloud Architects, DevOps Engineers, or

developers who want to learn key architectural aspects of the Azure Cloud platform, then this book is for you. Prior basic knowledge of the Azure Cloud platform is good to have.

What You Will Learn

- Familiarize yourself with the components of the Azure Cloud platform
- Understand the cloud design patterns
- Use enterprise security guidelines for your Azure deployment
- Design and implement Serverless solutions
- See Cloud architecture and the deployment pipeline
- Understand cost management for Azure solutions

In Detail

Over the years, Azure cloud services has grown quickly, and the number of organizations adopting Azure for their cloud services is also gradually increasing. Leading industry giants are finding that Azure fulfills their extensive cloud requirements. This book will guide you through all the important and tough decision-making aspects involved in architecting a Azure public cloud for your organization. The book starts with an extensive introduction to all the categories of designs available with Azure. These design patterns focus on different aspects of cloud such as high availability, data management, and so on. Gradually, we move on to various aspects such as building your cloud structure and architecture. It will also include a brief description about different types of services provided by Azure, such as Azure functions and Azure Analytics, which can prove beneficial for an organization. This book will cover each and every aspect and function required to develop a Azure cloud based on your organizational requirements. By the end of this book, you will be in a position to develop a full-fledged Azure cloud.

Style and approach

This hands-on guide to the Azure Cloud platform covers different architectural concepts and

implementations necessary for any enterprise scale deployment.

Cloud Design Patterns

This Microsoft Official curriculum training kit delivers comprehensive preparation for MCP Exam 70-100--a core exam on the Microsoft Certified Solution Developer (MCS D) track and the only exam every MCS D candidate must pass. The CD-ROM contains hands-on lab exercises, demos, and complete model application for a complete learning solution.

Collaborative Enterprise Architecture

Get complete coverage of the latest release of the Certified Information Systems Security Professional (CISSP) exam inside this comprehensive, fully updated resource. Written by the leading expert in IT security certification and training, this authoritative guide covers all 10 CISSP exam domains developed by the International Information Systems Security Certification Consortium (ISC2). You'll find learning objectives at the beginning of each chapter, exam tips, practice exam questions, and in-depth explanations. Designed to help you pass the CISSP exam with ease, this definitive volume also serves as an essential on-the-job reference. **COVERS ALL 10 CISSP DOMAINS:** Information security and risk management Access control Security architecture and design Physical and environmental security Telecommunications and network security Cryptography Business continuity and disaster

recovery planning Legal regulations, compliance, and investigations Application security Operations security
THE CD-ROM FEATURES: Hundreds of practice exam questions Video training excerpt from the author E-book Shon Harris, CISSP, is a security consultant, a former member of the Information Warfare unit in the Air Force, and a contributing writer to Information Security Magazine and Windows 2000 Magazine. She is the author of the previous editions of this book.

Cisco Unity Deployment and Solutions Guide

This guide presents a practical, scenario-driven approach to designing and building security-enhanced ASP.NET applications for Microsoft® Windows® 2000 and version 1.1 of the Microsoft .NET Framework.

Designing Distributed Systems

Of all the Ajax-specific frameworks that have popped up in recent years, one clearly stands out as the industrial strength solution. Dojo is not just another JavaScript toolkit—it's the JavaScript toolkit—and Dojo: The Definitive Guide demonstrates how to tame Dojo's extensive library of utilities so that you can build rich and responsive web applications like never before. Dojo founder Alex Russell gives a foreword that explains the "why" of Dojo and of this book. Dojo provides an end-to-end solution for development in the browser, including everything from the core JavaScript library and turnkey widgets to build tools and a testing framework. Its vibrant open source

community keeps adding to Dojo's arsenal, and this book provides an ideal companion to Dojo's official documentation. Dojo: the Definitive Guide gives you the most thorough overview of this toolkit available, showing you everything from how to create complex layouts and form controls closely resembling those found in the most advanced desktop applications with stock widgets, to advanced JavaScript idioms to AJAX and advanced communication transports. With this definitive reference you get:

- Get a concise introduction to Dojo that's good for all 1.x versions
- Well-explained examples, with scores of tested code samples, that let you see Dojo in action
- A comprehensive reference to Dojo's standard JavaScript library (including fundamental utilities in Base, Dojo's tiny but powerful kernel) that you'll wonder how you ever lived without
- An extensive look at additional Core features, such as animations, drag-and-drop, back-button handling, animations like wipe and slide, and more
- Exhaustive coverage of out-of-the-box Dijits (Dojo widgets) as well as definitive coverage on how to create your own, either from scratch or building on existing ones
- An itemized inventory of DojoX subprojects, the build tools, and the DOH, Dojo's unit-testing framework that you can use with Dojo—or anywhere else
- If you're a DHTML-toting web developer, you need to read this book—whether you're a one-person operation or part of an organization employing scores of developers.

Dojo packs the standard JavaScript library you've always wanted, and Dojo: The Definitive Guide helps you transform your ideas into working applications quickly by leveraging design concepts you already know.

Building Solutions with the Microsoft .NET Compact Framework

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.

Programming in the .NET Environment

Although enterprise mobility is in high demand across domains, an absence of experts who have worked on enterprise mobility has resulted in a lack of books on

the subject. A Comprehensive Guide to Enterprise Mobility fills this void. It supplies authoritative guidance on all aspects of enterprise mobility-from technical aspects and applications to

MCAD/MCSD Training Guide (70-315)

Cisco Unity Deployment and Solutions Guide shows you how to integrate Cisco Unity with Cisco IP-based communication solutions, including Cisco CallManager. Part I introduces you to the Cisco Unity architecture and teaches you about the Cisco Unity feature set. Part II helps you design and deploy a unified message solution with Cisco Unity, and Part III helps you manage and administer your solution by leveraging the tools within Cisco Unity. Cisco Unity Deployment and Solutions Guide teaches you all that you need to know about designing, deploying, and managing a sustainable, unified messaging solution.

Game AI Pro 360: Guide to Architecture

Presenting cutting-edge insights from industry practitioners, .NET 4 for Enterprise Architects and Developers supplies in-depth coverage of the various server-side features of Microsoft .NET Framework 4 that can be leveraged in Enterprise Application development. It provides a fundamental understanding of the technical aspects of implementation and

Container Security

This is a comprehensive .NET-retraining guide written for the COBOL/CICS mainframe programmer from the perspective of a former COBOL/CICS programmer.

Software Architecture in Practice

IBM® i2® Integrated Law Enforcement is an IBM Smarter Cities® solution that addresses the needs of modern-day law enforcement agencies. It is a solution framework that provides the individual capabilities of the products that comprise the solution and extended capabilities developed through the synergistic integration of those product components. As a framework, IBM i2 Integrated Law Enforcement allows for the continuous expansion of capabilities by putting together building blocks within the system and integrating with new, external systems. In doing so, an organization can respond and adapt to its changing needs. Simply stated, the configuration, integration, and implementation of IBM i2 Integrated Law Enforcement and its components provide the tools for more effective law enforcement. This IBM Redpaper™ publication explains the technology and the architecture on which the solution is built. Most importantly, this paper enables technical teams to install, configure, and deploy an instance of the i2 Integrated Law Enforcement solution using the product i2 Intelligent Law Enforcement V1.0.1. This paper is targeted to solution architects, system and deployment engineers, security specialists, data management experts, system analysts, software developers and test engineers, and system administrators. Readers of this paper will benefit from

the IBM Redguide™ publication "Integrated Law Enforcement: A Holistic Approach to Solving Crime", REDP-5116.

Enterprise Application Architecture with .NET Core

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

Describes ways to incorporate domain modeling into software development.

Architecting Microsoft Azure Solutions - Exam Guide 70-535

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

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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.

CISSP All-in-One Exam Guide, Fifth Edition

This is the eBook version of the print title, Framework Design Guidelines, Second Edition . Access to all the samples, applications, and content on the DVD is available through the product catalog page www.informit.com/title/9780321545619 Navigate to the “Downloads” tab and click on the “DVD Contents” links - see instructions in back pages of your eBook. Framework Design Guidelines, Second Edition, teaches developers the best practices for designing reusable libraries for the Microsoft .NET Framework. Expanded and updated for .NET 3.5, this new edition focuses on the design issues that directly affect the programmability of a class library, specifically its publicly accessible APIs. This book can improve the work of any .NET developer producing code that other developers will use. It includes copious annotations to the guidelines by thirty-five prominent architects and practitioners of the .NET Framework, providing a lively discussion of the reasons for the guidelines as well as examples of when to break those guidelines. Microsoft architects Krzysztof Cwalina and Brad Abrams teach framework design from the top down. From their significant combined experience and deep insight, you will learn The general philosophy and fundamental principles of framework design Naming guidelines for the various parts of a framework Guidelines for the design and extending of types and members of types Issues affecting—and guidelines for ensuring—extensibility How (and how not) to design exceptions Guidelines for—and examples of—common

framework design patterns Guidelines in this book are presented in four major forms: Do, Consider, Avoid, and Do not. These directives help focus attention on practices that should always be used, those that should generally be used, those that should rarely be used, and those that should never be used. Every guideline includes a discussion of its applicability, and most include a code example to help illuminate the dialogue. Framework Design Guidelines, Second Edition, is the only definitive source of best practices for managed code API development, direct from the architects themselves. A companion DVD includes the Designing .NET Class Libraries video series, instructional presentations by the authors on design guidelines for developing classes and components that extend the .NET Framework. A sample API specification and other useful resources and tools are also included.

Architecting Mobile Solutions for the Enterprise

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

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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.

MSDN Magazine

Get the definitive guide on designing applications on the Microsoft application platform—straight from the Microsoft patterns & practices team. Learn how to choose the most appropriate architecture and the best implementation technologies that the Microsoft application platform offers applications developers. Get critical design recommendations and guidelines organized by application type—from Web, mobile, and rich Internet applications to Office Business Applications. You™ also get links to additional technical resources that can help with your application development.

Micro Frontends in Action

Ever-changing business needs have prompted large companies to rethink their enterprise IT. Today, businesses must allow interaction with their customers, partners, and employees at more touch points and at a depth never thought previously. At the same time, rapid advances in information technologies, like business digitization, cloud computing, and Web 2.0, demand fundamental

changes in the enterprises' management practices. These changes have a drastic effect not only on IT and business, but also on policies, processes, and people. Many companies therefore embark on enterprise-wide transformation initiatives. The role of Enterprise Architecture (EA) is to architect and supervise this transformational journey.

Unfortunately, today's EA is often a ponderous and detached exercise, with most of the EA initiatives failing to create visible impact. The enterprises need an EA that is agile and responsive to business dynamics. Collaborative Enterprise Architecture provides the innovative solutions today's enterprises require, informed by real-world experiences and experts' insights. This book, in its first part, provides a systematic compendium of the current best practices in EA, analyzes current ways of doing EA, and identifies its constraints and shortcomings. In the second part, it leaves the beaten tracks of EA by introducing Lean, Agile, and Enterprise 2.0 concepts to the traditional EA methods. This blended approach to EA focuses on practical aspects, with recommendations derived from real-world experiences. A truly thought provoking and pragmatic guide to manage EA, Collaborative Enterprise Architecture effectively merges the long-term oriented top-down approach with pragmatic bottom-up thinking, and that way offers real solutions to businesses undergoing enterprise-wide change. Covers the latest emerging technologies affecting business practice, including digitization, cloud computing, agile software development, and Web 2.0 Focuses on the practical implementation of EAM rather than theory, with recommendations based on

real-world case studies Addresses changing business demands and practices, including Enterprise 2.0, open source, global sourcing, and more Takes an innovative approach to EAM, merging standard top-down and pragmatic, bottom-up strategies, offering real solutions to businesses undergoing enterprise-wide changes

Performance Tuning and Optimizing ASP.NET Applications

Browser-based software can quickly become complex and difficult to maintain, especially when it's implemented as a large single-page application. By adopting the micro frontends approach and designing your web apps as systems of features, you can deliver faster feature development, easier upgrades, and pick and choose the technology you use in your stack. Micro Frontends in Action is your guide to simplifying unwieldy frontends by composing them from small, well-defined units. Summary Browser-based software can quickly become complex and difficult to maintain, especially when it's implemented as a large single-page application. By adopting the micro frontends approach and designing your web apps as systems of features, you can deliver faster feature development, easier upgrades, and pick and choose the technology you use in your stack. Micro Frontends in Action is your guide to simplifying unwieldy frontends by composing them from small, well-defined units. Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications. About the Technology Micro frontends

deliver the same flexibility and maintainability to browser-based applications that microservices provide for backend systems. You design your project as a set of standalone components that include their own interfaces, logic, and storage. Then you develop these mini-applications independently and compose them in the browser. About the Book *Micro Frontends in Action* teaches you to apply the microservices approach to the frontend. You'll start with the core micro frontend design ideas. Then, you'll build an e-commerce application, working through practical issues like server-side and client-side composition, routing, and maintaining a consistent look and feel. Finally, you'll explore team workflow patterns that maximize the benefit of developing application components independently. What's Inside - Create a unified frontend from independent applications - Combine JavaScript code from multiple frameworks - Browser and server-side composition and routing - Implement effective dev teams and project workflow About the Reader For web developers, software architects, and team leaders. About the Author Michael Geers is a software developer specializing in building user interfaces. Table of Contents PART 1 - GETTING STARTED WITH MICRO FRONTENDS 1 What are micro frontends? 2 My first micro frontends project PART 2 - ROUTING, COMPOSITION, AND COMMUNICATION 3 Composition with Ajax and server-side routing 4 Server-side composition 5 Client-side composition 6 Communication patterns 7 Client-side routing and the application shell 8 Composition and universal rendering 9 Which architecture fits my project? PART 3 - HOW TO BE FAST, CONSISTENT, AND EFFECTIVE 10 Asset loading 11 Performance is

key 12 User interface and design system 13 Teams and boundaries 14 Migration, local development, and testing

A Comprehensive Guide to Enterprise Mobility

Design patterns are time-tested solutions to recurring problems, letting the designer build programs on solutions that have already proved effective Provides developers with more than a dozen ASP.NET examples showing standard design patterns and how using them helps build a richer understanding of ASP.NET architecture, as well as better ASP.NET applications Builds a solid understanding of ASP.NET architecture that can be used over and over again in many projects Covers ASP.NET code to implement many standard patterns including Model-View-Controller (MVC), ETL, Master-Master Snapshot, Master-Slave-Snapshot, Façade, Singleton, Factory, Single Access Point, Roles, Limited View, observer, page controller, common communication patterns, and more

Professional ASP.NET Design Patterns

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 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 edition

Dojo: The Definitive Guide

In the race to compete in today's fast-moving markets, large enterprises are busy adopting new technologies for creating new 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 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 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 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 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 Platform as a Service, and Integration Software as a Service
- The 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 complete

pervasive integration solution as a core component of a digital business platform to serve every audience in your organization.

Application Architecture for .NET

Get expert architectural and design-level guidance for building distributed solutions with the Microsoft® .NET Framework—learning how to synthesize your knowledge of application development, servers, and infrastructure and business requirements. This guide assumes you are familiar with .NET component development and the basic principles of a layered distributed application design. It examines architectural issues and solution design for a range of project stakeholders—whether you build and design applications and services, recommend appropriate technologies and products for applications and services, make design decisions to meet functional and nonfunctional requirements, or choose appropriate communications mechanisms for applications and services—providing straightforward guidance, recommendations, and best practices gleaned from real-world solution development. 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.

COBOL and Visual Basic on .NET

Demonstrates how to create generic frameworks,

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libraries, classes, and tools that can be used in the .NET environment and provides instructions on how to select the right language to develop parts of a system and how to integrate them at runtime.

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