Microsoft Application Architecture Guide Ebook

Introducing a complete guide to deploying and managing Windows 7 that is suitable for IT professionals and students alike! This instructional text provides the information users need to successfully migrate to Windows 7 and immediately derive benefits from it. Readers will learn about the new features in Windows 7, such as advanced security, and how those features compare to Windows Vista and Windows XP. Valuable for professionals, but written in a way that is understandable to the novice networking student, this informative guide examines Windows 7 in a thorough and logical manner making the information easy to understand and preparing readers for Microsoft's MCTS Exam #70-680. The hands-on activities and case projects help learners practice new skills, and review questions and key terms reinforce important information. The accompanying CD provides valuable certification preparation material, including test preparation software. With a section devoted to troubleshooting, this text also doubles as a manual that professionals can take on the job with them. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Become a professional .NET developer by learning expert techniques for building enterprise-grade applications Key Features Explore the advanced features of C# and .NET 5 to enhance your code and productivity Follow clear and easy instructions for building an end-to-end enterprise application Learn how to build scalable web applications and host them on the cloud Book Description .NET Core is one of the most popular programming platforms in the world for an increasingly large community of developers thanks to its excellent cross-platform support. This book will show you how to confidently use the features of .NET 5 with C# 9 to build robust enterprise applications. Throughout the book, you'll work on creating an enterprise app and adding a key component to the app with each chapter, before ?nally getting it ready for testing and deployment. You'll learn concepts relating to advanced data structures, the Entity Framework Core, parallel programming, and dependency injection. As you progress, you'll cover various authentication and authorization schemes provided by .NET Core to make your apps and APIs secure. Next, you'll build web apps using ASP.NET Core 5 and deploy them on the cloud while working with various cloud components using Azure. The book then shows you how to use the latest Microsoft Visual Studio 2019 and C# 9 to simplify developer tasks, and also explores tips and tricks in Visual Studio 2019 to improve your productivity. Later, you'll discover various testing techniques such as unit testing and performance testing as well as di?erent methods to deploy enterprise apps. By the end of this book, you'll be able to create enterprise apps using the powerful features of .NET 5 and deploy them on the cloud. What You Will Learn Design enterprise apps by making the most of the latest features of .NET 5 Discover di?erent layers of an app, such as the data layer, API layer, and web layer Explore end-to-end architecture, implement an enterprise web app using .NET and C# 9, and deploy the app on Azure Focus on the core concepts of web application development such as dependency injection, caching, logging, con?guration, and authentication, and implement them in .NET 5 Integrate the new .NET 5 health and performance check APIs with your app Understand how .NET 5 works and contribute to the .NET 5 platform Who this book is for ?If you are a developer, architect, or senior programmer who wants to leverage the features of .NET 5 and the C# language, as well as grasp essential techniques to build your skills, then this C# .NET 5 book is for you. Beginner to intermediate-level knowledge of the .NET framework and C# programming is required to understand the concepts covered in this book more effectively.

***** WAGmob: Over One million Paying Customers ***** WAGmob brings you, Simple 'n Easy, on-the-go learning ebook for "Learn Windows 8 Programming". The ebook provides: Snack sized chapters for easy learning. Designed for both students and adults. This ebook provides a quick summary of essential concepts in Windows 8 Programming by following snack sized chapters: Introduction: • Introduction to W8 • Pre-requisites for Windows 8 Programming Basics of Windows 8: • Basics of Windows 8 • Dynamic Features in Windows 8 Windows 8 Architecture: • Windows 8 Architecture Installing Visual Studio: • Installing Visual Studio Express 2012 for Windows 8 Getting Started with W8 Programming I: • Step 1: To create a New Project in Visual Studio • Step 2: To Start the app • Step 3: To modify the start page • App.xaml Getting Started with W8 Programming II: • App.xaml.cs/.vb • MainPage.xaml • MainPage.xaml.cs/.vb • Step 4: Create an event handler App States and Lifecycle: • Manage app lifecycle and state (Windows Store apps using C#/VB and XAML) • Step 1 - Using Suspension Manager • Step 2: Save the app's state Introducing Basic Controls: • Text Block • Text Box • Button • Hyperlink Button • Radio Button • Image • Border • Canvas • Check Box • Combo Box • Stack Panel • Scroll Viewer • Slider • Progress Ring • Grid • Grid View • List View • App Bar • Media Element • Web View Splash Screen and Storage: • Splash Screen • Getting Started • Creating a Splash Screen Page • Storage Navigation, Layout and Views: • Navigation, Layout and Views (Windows) About WAGmob ebooks: 1) A companion ebook for on-the-go, bite-sized learning. 2) Offers value for money (a lifetime of free updates). 3) Over One million paying customers from 175+ countries. WAGmob Vision : Simple 'n easy ebooks for a lifetime of on-the-go learning Visit us : www.wagmob.com Please write to us at Team@WAGmob.com. We would love to improve this ebook.

Harness the power of Dynamics 365 Operations and discover all you need to implement it About This Book Master all the necessary tools and resources to evaluate Dynamics 365 for Operations, implement it, and proactively maintain it. Troubleshoot your problems effectively with your Dynamics 365 partner Learn about architecture, deployment choices, integration, configuration and data migration, development, testing, reporting and BI, support, upgrading, and more. Who This Book Is For This book is for technology leaders, project managers solution architects, and consultants who are planning to implement, are in the process of implementing, or are currently upgrading to Dynamics 365 for Operations. This book will help you effectively learn and implement Dynamics 365 for Operations. What You Will Learn Learn about Microsoft Dynamics 365, it's offerings, plans and details of Finance and Operations, Enterprise edition Understand the methodology and the tool, architecture, and deployment options Effectively plan and manage configurations and data

migration, functional design, and technical design Understand integration frameworks, development concepts, best practices, and recommendations while developing new solutions Learn how to leverage intelligence and analytics through Power BI, machine learning, IOT, and Cortana intelligence Master testing, training, going live, upgrading, and how to get support during and after the implementation In Detail Microsoft Dynamics 365 for Finance and Operations, Enterprise edition, is a modern, cloud-first, mobile-first, ERP solution suitable for medium and large enterprise customers. This book will guide you through the entire life cycle of a implementation, helping you avoid common pitfalls while increasing your efficiency and effectiveness at every stage of the project. Starting with the foundations, the book introduces the Microsoft Dynamics 365 offerings, plans, and products. You will be taken through the various methodologies, architectures, and deployments so you can select, implement, and maintain Microsoft Dynamics 365 for Finance and Operations, Enterprise edition. You will delve in-depth into the various phases of implementation: project management, analysis, configuration, data migration, design, development, using Power BI, machine learning, Cortana analytics for intelligence, testing, training, and finally deployment, support cycles, and upgrading. This book focuses on providing you with information about the product and the various concepts and tools, along with real-life examples from the field and guidance that will empower you to execute and implement Dynamics 365 for Finance and Operations, Enterprise edition. Style and approach This book is a step-by-step guide focusing on implementing Dynamics 365 Operations solutions for your organization.

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. Implement maximum control, security, and compliance processes in Azure cloud environments In Microsoft Azure Security Infrastructure ,1/e three leading experts show how to plan, deploy, and operate Microsoft Azure with outstanding levels of control, security, and compliance. You'll learn how to prepare infrastructure with Microsoft's integrated tools, prebuilt templates, and managed services–and use these to help safely build and manage any enterprise, mobile, web, or Internet of Things (IoT) system. The authors guide you through enforcing, managing, and verifying robust security at physical, network, host, application, and data layers. You'll learn best practices for security-aware deployment, operational management, threat mitigation, and continuous improvement–so you can help protect all your data, make services resilient to attack, and stay in control no matter how your cloud systems evolve. Three Microsoft Azure experts show you how to: • Understand cloud security boundaries and responsibilities • Plan for compliance, risk management, identity/access management, operational security, and endpoint and data protection • Explore Azure's defense-in-depth security architecture • Use Azure network security patterns and best practices • Help safeguard data via encryption, storage redundancy, rights management, database security, and storage security • Help protect virtual machines with Microsoft Antimalware for Azure Cloud Services and Virtual Machines • Use the Microsoft Azure Key Vault service to help secure cryptographic keys and other confidential information • Monitor and help protect Azure and on-premises resources with Azure Security Center and Operations Management Suite • Effectively model threats and plan protection for IoT systems • Use Azure security tools for operations, incident response, and forensic investigation

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 Azure Analyze and address the part of your DevOps process that causes delays or bottlenecks Track code using Azure Repos and conduct acceptance tests Apply the rules for segmenting applications into Git repositories Understand the different types of builds and when to use each Know how to think about code validation in your DevOps environment Provision and configure environments; deploy release candidates across the environments in Azure Monitor 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

An architecture and porting reference for server applications running on multiple operating systems, including Novell NetWare, IBM OS/2 2.0, Microsoft NT, and UNIX. The book covers in-depth considerations for architecturing portable client-server applications, and it incorporates topics such as distributed computing, downsizing, implementation, scalability, and software layering.

Compete with the big players in today's E-commerce marketplace Electronic Data Interchange (EDI) has long been the standard for large business enterprises to communicate in the B2B marketplace. However, EDI is a difficult technology - the cost and support of EDI standards is often too much for a small or medium business enterprise to bear. To compete in the current E-commerce marketplace, many organizations are beginning to take an interest in the interoperability that exists between XML (Extensible Markup Language) and EDI. XML .NET Developers Guide is written for information technology professionals responsible for supporting data management in both small and large organizations. This book appeals to both individuals working with an existing EDI environment, and small to medium businesses looking to increase their market presence by competing with current EDI players using XML/EDI. XML/EDI is quickly becoming an

industry standard, however there is a noticeable lack of quality reference material for programmers looking to adopt these standards. You can take it with you. The book comes with Syngress' revolutionary Wallet CD containing a printable HTML version of the book, all of the source code, and demo versions of popular XML/EDI translation tools Up to the minute web-based support with solutions@syngress.com

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 first comprehensive guide to all aspects of digital publishing, from rights to eBooks, to accessibility, to content management.

Selecting the right architecture enables organizations to deliver a successful business solution that can boost customer engagement and growth. With this comprehensive guide, you'll learn architectural best practices and methodologies for implementing an enterprise-grade solution tailored for your business needs using Microsoft Power Platform

Organized into several parts that comprise the various jobs and tasks the DBA performs, each chapter of this book is presented with the goal of providing knowledge and "know-how" to Database Administrators of a SQL Server database. The chapters also offer real-world insight and experience by passing on tips, tricks, and suggestions.

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Berlitz Pocket Guide Helsinki is a concise, full-colour travel guide that combines lively text with vivid photography to highlight the very best that this vibrant, modern city has to offer. The Where To Go chapter details all the key sights, from the entertainment district to the cathedral, taking in colourful markets, first-rate museums and galleries, the historic Suomenlinna Fortress and dignified state architecture. There are also excursions to nearby Porvoo, Tampere and across the water to Tallinn, the Estonian capital. To inspire you, the book offers a rundown of the Top 10 Attractions in the city, followed by an itinerary for a Perfect Day in Helsinki. The What to Do chapter is a snapshot of ways to spend your spare time, from shopping for colourful Spectrolite jewellery to catching a hockey game, Finland's favourite sport. You'll also be armed with background information, including a brief history of the city and an Eating Out chapter covering its adventurous cuisine. There are carefully chosen listings of the best hotels and restaurants, and an A-Z to equip you with all the practical information you will need.

Prepare for Microsoft Exam 70-534--and help demonstrate your real-world mastery of Microsoft Azure solution design and architecture. Designed for experienced IT pros ready to advance their status, Exam Ref focuses on the critical-thinking and decision-making acumen needed for success at the Microsoft Specialist level. Focus on the expertise measured by these objectives: Describe Microsoft Azure infrastructure and networking Help secure resources Design an application storage and data access strategy Design an advanced application Design websites Design a management, monitoring, and business continuity strategy This Microsoft Exam Ref: Organizes its coverage by exam objectives Features strategic, what-if scenarios to challenge you Assumes you have experience designing Microsoft Azure cloud or hybrid solutions and supporting application life cycle management

Insight Guides: all you need to inspire every step of your journey. An in-depth book, now with free app and eBook. Israel is intense. This new edition covers Israel's top attractions, from the holy sites of Jerusalem's Old City, Bethlehem and Nazareth to the pleasures of the coast and a Dead Sea mud bath. Over 358 pages of insider knowledge from local experts In-depth on history and culture, from chapters on the people and religions of Israel, the history of the kibbutz ot its rich and varied cuisine Enjoy special features on the country's bustling markets, Old Jerusalem's city gates, Mini Israel and Israel's four seas Includes innovative extras that are unique in the market - all Insight Guides to countries and regions come with a free eBook and app that's regularly updated with new hotel, bar, restaurant, shop and local event listings Invaluable maps, travel tips and practical information ensure effortless planning Inspirational colour photography throughout Inventive design makes for an engaging reading experience About Insight Guides: Insight Guides has over 40 years' experience of publishing high-quality, visual travel guides. We produce around 400 full-colour print guide books and maps as well as picture-packed eBooks and apps to meet different travellers' needs. Insight Guides' unique combination of beautiful travel photography and focus on history and culture together create a unique visual reference and planning tool to inspire your next adventure.

Microsoft Azure Essentials from Microsoft Press is a series of free ebooks designed to help you advance your technical skills with Microsoft Azure. The second ebook in the series, Microsoft Azure Essentials: Azure Automation, introduces a fairly new feature of Microsoft Azure called Azure Automation. Using a highly scalable workflow execution environment, Azure Automation allows you to orchestrate frequent deployment and life cycle management tasks using runbooks based on Windows PowerShell Workflow functionality. These runbooks are

stored in and backed up by Azure. By automating runbooks, you can greatly minimize the occurrence of errors when carrying out repeated tasks and process automation. Watch Microsoft Press's blog and Twitter (@MicrosoftPress) to learn about other free ebooks in the Microsoft Azure Essentials series.

This exam (70293) is an MCSE core requirement and an MCSA elective Now updated for the new version of the exam covering Windows Server 2003 R2 and revised with enhanced troubleshooting guidance and new case studies The CD-ROM includes the cutting-edge WinSim simulation program, hundreds of sample questions, the entire book in PDF format, and flashcards Over 2.7 Microsoft certifications have been awarded to date

Wright/Plesniarski's MICROSOFT SPECIALIST GUIDE TO MICROSOFT EXAM MD-100: WINDOWS 10 ensures you are well prepared for the Microsoft exam as well as a successful career in system administration. Completely up to date, this user-friendly guide walks you step by step through all aspects of installing, configuring and maintaining Windows 10 as a client operating system. Engaging exercises throughout enable you to experience the processes involved in Windows 10 configuration and management -- with plenty of troubleshooting tips to offer solutions to common problems along the way. Review Questions help you prepare for the Microsoft certification exam, while Case Projects provide practice in situations that must be managed in a live networking environment. Giving you added flexibility, labs can be completed on physical or virtual machines. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Direct from Microsoft, this Exam Ref is the official study guide for the new Microsoft AZ-303 Microsoft Azure Architect certification exam, and covers every single objective. Designed for modern IT professionals, this Exam Ref focuses on the critical thinking and decision-making acumen needed for success at the Microsoft Certified Expert level. Focus on the expertise measured by these objectives: Deploy and configure infrastructure Implement workloads and security Create and deploy apps Implement authentication and secure data Develop for the cloud and for Azure storage

Provides information and examples on using Windows Communication Foundation to build service-oriented applications.

Enterprise Application Architecture with .NET CorePackt Publishing Ltd

Access detailed content and examples on Azure SQL, a set of cloud services that allows for SQL Server to be deployed in the cloud. This book teaches the fundamentals of deployment, configuration, security, performance, and availability of Azure SQL from the perspective of these same tasks and capabilities in SQL Server. This distinct approach makes this book an ideal learning platform for readers familiar with SQL Server on-premises who want to migrate their skills toward providing cloud solutions to an enterprise market that is increasingly cloud-focused. If you know SQL Server, you will love this book. You will be able to take your existing knowledge of SQL Server and translate that knowledge into the world of cloud services from the Microsoft Azure platform, and in particular into Azure SQL. This book provides information never seen before about the history and architecture of Azure SQL. Author Bob Ward is a leading expert with access to and support from the Microsoft engineering team that built Azure SQL and related database cloud services. He presents powerful, behind-the-scenes insights into the workings of one of the most popular database cloud services in the industry. What You Will Learn Know the history of Azure SQL Deploy, configure, and connect to Azure SQL Choose the correct way to deploy SQL Server in Azure Migrate existing SQL Server instances to Azure SQL Monitor and tune Azure SQL's performance to meet your needs Ensure your data and application are highly available Secure your data from attack and theft Who This Book Is For This book is designed to teach SQL Server in the Azure cloud to the SQL Server professional. Anyone who operates, manages, or develops applications for SQL Server will benefit from this book. Readers will be able to translate their current knowledge of SQL Server—especially of SQL Server 2019—directly to Azure. This book is ideal for database professionals looking to remain relevant as their customer base moves into the cloud.

Ebook: Object-Oriented Systems Analysis and Design Using UML

Berlitz Pocket Guides: iconic style, a bestselling brand, this is the quintessential pocket-sized travel guide to the French Riviera, and now comes with a bi-lingual dictionary Plan your trip, plan perfect days and discover how to get around - this pocket-sized guide with new bi-lingual dictionary is a convenient, quick-reference companion to discovering what to do and see in the French Riviera, from top attractions like Cannes, Monaco, Monte Carlo and Vieux Nice, to hidden gems, including Grasse's perfume factories and the canals of Port-Grimaud. This will save you time, and enhance your exploration of this thrilling region. - Compact, concise, and packed with essential information, this is an iconic on-the-move companion when you're exploring the French Riviera - Covers Top Ten Attractions and Perfect Day itinerary suggestions, including the Plage de Pampelonne in St Tropez, Matisse's Chapelle du Rosaire, modernist Villa Noailles and the impressive Massif d'Esterel Nifty new bi-lingual dictionary section makes this the perfect portable package for short trip travellers Includes an insightful overview of landscape, history and culture - Handy colour maps on the inside cover flaps will help you find your way around - Essential practical information on everything from Eating Out to Getting Around - Inspirational colour photography throughout - Sharp design and colour-coded sections make for an engaging reading experience About Berlitz: Berlitz draws on years of travel and language expertise to bring you a wide range of travel and language products, including travel guides, maps, phrase books, language-learning courses, dictionaries and kids' language products.

Build SOA applications on the Microsoft platform with this hands-on book and eBook guide updated for VS2010

Gain the technical and business insight needed to plan, deploy, and manage the services provided by the Microsoft Azure cloud. This second edition focuses on improving operational decision tipping points for the professionals leading DevOps and security teams. This will allow you to make an informed decision concerning the workloads appropriate for your growing business in the Azure public cloud. Microsoft Azure starts with an introduction to Azure along with an overview of its architecture services such as IaaS and PaaS. You'll also take a look into Azure's data, artificial intelligence, and machine learning services. Moving on, you will cover the planning for and adoption of Azure where you will go through budgeting, cloud economics, and designing a hybrid data center. Along the way, you will work with web apps, network PaaS, virtual machines, and much more. The final section of the book starts with Azure data services and big data with an in-depth discussion of Azure SQL Database, CosmosDB, Azure Data Lakes, and MySQL. You will further see how to migrate on-premises databases to Azure and use data engineering. Next, you will discover the various Azure services for application developers, including Azure DevOps and ASP.NET web apps. Finally, you will go through the machine learning and AI tools in Azure, including Azure Cognitive Services. What You Will Learn Apply design guidance and best practices using Microsoft Azure to achieve business growth Create and manage virtual machines Work with AI frameworks to process and analyze data to support business decisions and increase revenue Deploy,

publish, and monitor a web app Who This Book Is For Azure architects and business professionals looking for Azure deployment and implementation advice.

Beginning SharePoint 2013 Development eBook and SharePoint-videos.com Bundle.

Your hands-on guide to Microsoft Visual C# fundamentals with Visual Studio 2017 Expand your expertise--and teach yourself the fundamentals of programming with the latest version of Visual C# with Visual Studio 2017. If you are an experienced software developer, you'll get all the guidance, exercises, and code you need to start building responsive, scalable, cloud-connected applications that can run almost anywhere. . Discover how to: Quickly start creating Visual C# code and projects with Visual Studio 2017 Work with variables, operators, expressions, methods, and program flow Build more robust apps with error, exception, and resource management Spot problems fast with the Visual Studio debugger Make the most of improvements to C# methods, parameters, and switch statements Master the C# object model, and create your own functional data structures Leverage advanced properties, indexers, generics, and collection classes Create Windows 10 apps that share data, collaborate, and use cloud services Integrate Cortana to voice-enable your applications Perform complex queries over object collections with LINQ Improve application throughput and response time with asynchronous methods Use delegates and decoupling to construct highly extensible systems Customize C# operator behavior over your own classes and structures Streamline development with app templates Implement the powerful Model-View-ViewModel (MVVM) pattern Develop cloud-connected applications that seamlessly follow users across devices Build UWP applications that retrieve complex data via REST and present it intuitively

Dig into the architecture and internals of Microsoft Dynamics AX—with firsthand insights from the team who designed and developed it. Deepen your knowledge of the underlying frameworks, components, and tools—and get best-practice guidance to customize and extend your own high-performance solutions. Discover how to: Work with MorphX application-modeling tools and X++ code Exploit built-in workflow infrastructure to simplify process automation Use Enterprise Portal and ASP.NET to build rich, role-based Web portals See how reporting components work together for better business intelligence Execute complex batch jobs with greater control and reliability Learn how the runtime implements configuration and security Walk through integration scenarios and technologies Create and expose services to external applications Optimize application performance and extensibility

Build .NET apps on Microsoft Azure services that can grow to Internet scale. Learn how you can make smart application architecture decisions and follow best practices so that your website can handle tens of thousands of concurrent users and deliver your content globally. Author Rob Reagan takes you through key Azure technologies targeted toward building web applications, and along the way shares his lessons learned in scaling out a real-world web application. After an overview of web application building blocks, the book dives into relational and NoSQL data storage options on Azure, including Azure Table Storage and CosmosDB. You'll then discover how to make best use of Redis Cache, Web Jobs, Messaging Queues, and more, alongside other tips, tricks, and troubleshooting advice for when things go wrong. The book concludes with a thorough exploration of best practices for deployment at scale. What You'll Learn Develop scalable architecture patterns on Azure with ASP.NET MVC Understand the pros and cons of using SQL Azure vs. NoSQL solutions (Azure Tables, CosmosDB) Perform data migration, backup, and recovery in SQL Azure Use effective caching Troubleshoot your web applications Know best practices for deployment Who This Book Is For Professional developers or serious hobbyists with experience developing web applications with ASP.NET MVC or Web API

Master the fundamental concepts of computer operating systems with Tomsho's GUIDE TO OPERATING SYSTEMS, 6th Edition. An excellent resource for training across different operating systems, this practical text equips you with key theory and technical information as you work with today's most popular operating systems, including Windows, macOS and Linux platforms. You will learn how general operating systems are organized and function as well as gain hands-on experience with OS installation, upgrading and configuration. Processors, file systems, networking, virtualization, security, device management, storage, OS maintenance and troubleshooting are explored in detail. Content also covers Windows 10 and earlier Windows client OSs, Windows Server 2019 and earlier Windows server OSs, Fedora Linux, and macOS Mojave and earlier. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Gain hands-on experience working with the architecture, implementation, deployment, and data migration of Dynamics 365 Customer Engagement Key Features Explore different tools to evaluate, implement, and proactively maintain Dynamics 365 for CE Integrate Dynamics 365 CE with applications such as Power BI, PowerApps, and Microsoft Power Automate Design application architecture, explore deployment choices, and perform data migration Book Description Microsoft Dynamics 365 for Customer Engagement (CE) is one of the leading customer relationship management (CRM) solutions that help companies to effectively communicate with their customers and allows them to transform their marketing strategies. Complete with detailed explanations of the essential concepts and practical examples, this book will guide you through the entire life cycle of implementing Dynamics 365 CE for your organization or clients, and will help you avoid common pitfalls while increasing efficiency at every stage of the project. Starting with the foundational concepts, the book will gradually introduce you to Microsoft Dynamics 365 features, plans, and products. You'll learn various implementation strategies and requirement gathering techniques, and then design the application architecture by converting your requirements into technical and functional designs. As you advance, you'll learn how to configure your CRM system to meet your organizational needs, customize Dynamics 365 CE, and extend its capabilities by writing client-side and server-side code. Finally, you'll integrate Dynamics 365 CE with other applications and explore its business intelligence capabilities. By the end of this Microsoft Dynamics 365 book, you'll have gained an in-depth understanding of all the key components necessary for successful Dynamics 365 CE implementation. What you will learn Explore the new features of Microsoft Dynamics 365 CE Understand various project management methodologies, such as Agile,

Waterfall, and DevOps Customize Dynamics 365 CE to meet your business requirements Integrate Dynamics 365 with other applications, such as PowerApps, Power Automate, and Power BI Convert client requirements into functional designs Extend Dynamics 365 functionality using web resources, custom logic, and client-side and server-side code Discover different techniques for writing and executing test cases Understand various data migration options to import data from legacy systems Who this book is for This book is for consultants, project managers, administrators, and solution architects who want to set up Microsoft Dynamics 365 Customer Engagement in their business. Although not necessary, basic knowledge of Dynamics 365 will help you get the most out of this book.

MCSA GUIDE TO MICROSOFT SQL SERVER 2012 (Exam #70-462) provides a thorough introduction to essential database administration principles and practices to prepare readers for certification and career success. Ideal for formal courses, self-study, or professional reference, this detailed text employs a lab-based approach to help users develop the core knowledge and practical skills they need to master Microsoft SQL Server administration in an enterprise environment and pass Microsoft Certified Solutions Associate Exam 70-462. The text opens with information on the latest version of Microsoft SQL Server, offering step-by-step guidance on selecting an edition and completing initial installation and configuration. Several chapters then explore key topics such as database programming, security, performance tuning, backup and recovery, data integration, and system monitoring. Within each chapter, numerous resources and features reinforce teaching and learning, including learning objectives, summaries of key ideas, hands-on activities, discusssion questions, definitions of important terms, and case studies to provide real-world context. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

The Microsoft Azure cloud is an ideal platform for data-intensive applications. Designed for productivity, Azure provides pre-built services that make collection, storage, and analysis much easier to implement and manage. Azure Storage, Streaming, and Batch Analytics teaches you how to design a reliable, performant, and cost-effective data infrastructure in Azure by progressively building a complete working analytics system. Summary The Microsoft Azure cloud is an ideal platform for data-intensive applications. Designed for productivity, Azure provides pre-built services that make collection, storage, and analysis much easier to implement and manage. Azure Storage, Streaming, and Batch Analytics teaches you how to design a reliable, performant, and cost-effective data infrastructure in Azure by progressively building a complete working analytics system. Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications. About the technology Microsoft Azure provides dozens of services that simplify storing and processing data. These services are secure, reliable, scalable, and cost efficient. About the book Azure Storage, Streaming, and Batch Analytics shows you how to build state-of-the-art data solutions with tools from the Microsoft Azure platform. Read along to construct a cloud-native data warehouse, adding features like real-time data processing. Based on the Lambda architecture for big data, the design uses scalable services such as Event Hubs, Stream Analytics, and SQL databases. Along the way, you'll cover most of the topics needed to earn an Azure data engineering certification. What's inside Configuring Azure services for speed and cost Constructing data pipelines with Data Factory Choosing the right data storage methods About the reader For readers familiar with database management. Examples in C# and PowerShell. About the author Richard Nuckolls is a senior developer building big data analytics and reporting systems in Azure. Table of Contents 1 What is data engineering? 2 Building an analytics system in Azure 3 General storage with Azure Storage accounts 4 Azure Data Lake Storage 5 Message handling with Event Hubs 6 Real-time queries with Azure Stream Analytics 7 Batch queries with Azure Data Lake Analytics 8 U-SQL for complex analytics 9 Integrating with Azure Data Lake Analytics 10 Service integration with Azure Data Factory 11 Managed SQL with Azure SQL Database 12 Integrating Data Factory with SQL Database 13 Where to go next

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??????????????Mark Russinovich?David Solomon???Windows???????????,?????????Windows????????????????????? Get up to speed with using C# 8 and .NET Core 3.0 features to build real-world .NET Core applications Key Features Learn the core concepts of web applications, serverless computing, and microservices Create an ASP.NET Core MVC application using controllers, routing, middleware and authentication Build modern applications using cutting-edge

services from Microsoft Azure Book Description .NET Core is a general-purpose, modular, cross-platform, and opensource implementation of .NET. The latest release of .NET Core 3 comes with improved performance and security features, along with support for desktop applications. .NET Core 3 is not only useful for new developers looking to start learning the framework, but also for legacy developers interested in migrating their apps. Updated with the latest features and enhancements, this updated second edition is a step-by-step, project-based guide. The book starts with a brief introduction to the key features of C# 8 and .NET Core 3. You'll learn to work with relational data using Entity Framework Core 3, before understanding how to use ASP.NET Core. As you progress, you'll discover how you can use .NET Core to create cross-platform applications. Later, the book will show you how to upgrade your old WinForms apps to .NET Core 3. The concluding chapters will then help you use SignalR effectively to add real-time functionality to your applications, before demonstrating how to implement MongoDB in your apps. Finally, you'll delve into serverless computing and how to build microservices using Docker and Kubernetes. By the end of this book, you'll be proficient in developing applications using .NET Core 3. What you will learn Understand how to incorporate the Entity Framework Core 3 to build ASP.NET Core MVC applications Create a real-time chat application using Azure's SignalR service Gain hands-on experience of working with Cosmos DB Develop an Azure Function and interface it with an Azure Logic App Explore user authentication with Identity Server and OAuth2 Understand how to use Azure Cognitive Services to add advanced functionalities with minimal code Get to grips with running a .NET Core application with Kubernetes Who this book is for This book is for developers and programmers of all levels who want to build real-world projects and explore the new features of .NET Core 3. Developers working on legacy desktop software who are looking to migrate to .NET Core 3 will also find this book useful. Basic knowledge of .NET Core and C# is assumed.

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# 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.

Create fast, scalable, and high-performance applications with C# and ASP.NET Core About This Book Get first-principle coverage of the latest ASP.NET Core MVC Find out how to bring together the capabilities and features of both Angular 2 and ASP.NET Core Discover common areas you might encounter performance problems with and areas you don't need to worry about Who This Book Is For This book is for developers who want to learn to build web applications using ASP.NET Core, those who want to make a career building web applications using Microsoft technology, and those who are working on other web frameworks and want to learn ASP.NET Core. What You Will Learn Get to know the concepts of ASP.NET MVC Create a Controller with action methods Build a view using several features of the Razor View engine Construct a Model for ASP.NET Core MVC application Find out how the features of ASP.NET Core and Angular 2 perfectly complement each other Handle requests and actions using server-side and client-side Routing Create a Data Model using Entity Framework Core Learn how to use Angular 2 components and master directives Improve performance at the network level and I/O level, and how to optimize the application as a whole Monitor performance as part of Continuous Integration and regression testing In Detail ASP.NET Core is the new, open source, and cross-platform, web-application framework from Microsoft. ASP.NET Core MVC helps you build robust web applications using the Model-View-Controller design. This guide will help you in building applications that can be deployed on non-Windows platforms such as Linux. Starting with an overview of the MVC pattern, you will quickly dive into the aspects that you need to know to get started with ASP.NET. You will learn about the core architecture of model, view, and control. Integrating your application with Bootstrap, validating user input, interacting with databases, and deploying your

application are some of the things that you will learn to execute with this fast-paced guide. You will test your knowledge as you build a fully working sample application using the skills you've learned throughout the book. Moving forward, this guide will teach you to combine the impressive capabilities of ASP.NET Core and Angular 2. Not only will you learn how Angular 2 can complement your .NET skills and toolkit, you'll also learn everything you need to build a complete, dynamic single-page application. Find out how to get your data model in place and manage an API, before styling and designing your frontend for an exceptional user experience. You will find out how to optimize your application for SEO, identify and secure vulnerabilities, and how to successfully deploy and maintain your application. From here, you will delve into the latest frameworks and software design patterns to improve your application performance. The course offers premium, highly practical content on the recently released ASP.NET Core, and includes material from the following Packt books: Learning ASP.NET Core MVC Programming, ASP.NET Core and Angular 2, and ASP.NET Core 1.0 High Performance. Style and approach This learning path takes a first-principles approach to help you understand and implement ASP.NET MVC solutions.