Microsoft Azure: Enterprise Application Development

Straight talking advice on how to design and build enterprise applications for the cloud

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Microsoft Azure Richard J. Dudley,2010-12-09 Straight talking advice on how to design and build enterprise applications for the cloud using Microsoft Azure with this book and eBook   *Microsoft Azure* Richard J. Dudley,Nathan A. Duchene,2010 This fast paced guide enables developers to design and build Enterprise applications for the cloud You will find it easy to follow this book as the authors use an actual online portal application for the case study Throughout the development of the sample application there is discussion of important considerations for moving an application into the cloud If you provide technological leadership to their enterprise senior developers architects CIO CTO and you want or need to guide your enterprise s application design to Azure this is the perfect book for you Since the examples are in NET the book will skew to MS oriented developers But a lot of what is discussed will be applicable to anyone wanting to work with Azure No matter what language you use you provision the application fabric the same way and all the underlying concepts will be the same You will need experience with Visual Studio and some basic SQL Server knowledge   **Practical Azure Application Development** Thurupathan Vijayakumar,2017-05-25 Get started and learn a step by step approach to application development using Microsoft Azure Select the right services to solve the problem at hand in a cost effective manner and explore the potential different services and how they can help in building enterprise applications Azure has an ample amount of resources and tutorials but most of them focus on specific services and explain those services on their own and in a given context Practical Azure Application Development focuses on building complete solutions on Azure using different services This book gives you the holistic approach to Azure as a solutions development platform This book Covers Azure as a solution development platform for building applications Provides real world examples to understand why and when an Azure service is required Discusses how Azure helps to achieve continuous improvement and expansion of an application Provides application development experience from purchasing Azure to integrating with core Azure services including an introduction to DevOps with VSTS What You ll Learn Use Azure services to solve real world software problems Define the usage of Azure services and select the right services to solve the problem at hand Make clear and less ambiguous decisions about using different Azure services Take a holistic approach to Azure as a solution platform Understand the basics of security data protection and cost controls in Azure Who This Book Is For Developers software engineers and architects who have experience in NET and web development but have little or no knowledge in planning and developing an application on Azure   Building Web Services with Microsoft Azure Alex Belotserkovskiy,Stephen Kaufman,Nikhil Sachdeva,2015-05-27 If you are a NET developer who wants to develop end to end RESTful applications in the cloud then this book is for you A working knowledge of C will help you get the most out of this book   Robust Cloud Integration with Azure Mahindra Morar,Abhishek Kumar,Martin Abbott,Gyanendra Kumar Gautam,James Corbould,Ashish Bhambhani,2017-03-22 Unleash the power of serverless integration with Azure About This Book Build and support highly available and scalable API

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   Enterprise Application Development with C# 9 and .NET 5 Ravindra Akella,Arun Kumar Tamirisa,Suneel Kumar Kunani,Bhupesh Guptha Muthiyalu,2021-03-19 Become a professional NET developer by learning expert techniques for building enterprise grade applications Key FeaturesExplore the advanced features of C and NET 5 to enhance your code and productivityFollow clear and easy instructions for building an end to end enterprise applicationLearn how to build scalable web applications and host them on the cloudBook 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 learnDesign enterprise apps by making the most of the latest features of NET 5Discover di erent layers of an app such as the data layer API layer and web layerExplore end to end architecture implement an enterprise web app using NET and C 9 and deploy the app on AzureFocus on the core concepts of web application development such as dependency injection caching logging con guration and authentication and implement them in NET 5Integrate the new NET 5 health and performance check APIs with your appUnderstand how NET 5 works and contribute to the NET 5 platformWho 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 *Microsoft Azure Essentials Azure Web Apps for Developers* Rick Rainey,2015-06-25 The Microsoft Azure Essentials series helps you advance your technical skills with Microsoft Azure Microsoft Azure Essentials Azure Web Apps for Developers focuses on providing essential information about developing web applications hosted on Azure Web Apps It is written with the developer who has experience using Visual Studio and the NET Framework in mind If Azure Web Apps is new to you this book is for you If you have experience developing for Azure Web Apps this book is for you too because there are features and tools discussed in this text that are new to the platform   Enterprise Integration with Azure Logic Apps Matthew Bennett,Tim Childe,2021-12-23 Learn how to create sophisticated and reliable Logic Apps with improved UX Key FeaturesBecome an Azure Master and create data flows within a matter of minutesPerform transfers using Logic Apps with prompt resultsCreate powerful Logic Apps by enhancing your systems to improve user experienceBook Description Logic Apps are a visual flowchart like representation of common programming actions and are a flexible way to create logic without writing a single line of code Enterprise Integration with Azure Logic Apps is a comprehensive introduction for anyone new to Logic Apps which will boost your learning skills and allow you to create rich complex structured and reusable logic with instant results You ll begin by discovering how to navigate the Azure portal and understand how your objects can be zoned to a specific environment by using resource groups Complete with hands on tutorials projects and self assessment questions this easy to follow guide will teach you the benefits and foundations of Logic App logic design As you advance you ll find out how to manage your Azure environment in relation

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Practical Azure Application Development Thurupathan Vijayakumar,2020-08-07 Get started and learn a step by step approach to application development using Microsoft Azure Select the right services to solve the problem at hand in a cost effective manner and explore the many services designed to help you in building enterprise applications This new edition covers Azure PaaS and serverless cloud native solutions and gives you the holistic approach to Azure as a solutions development platform It discusses recent developments in cloud applications and architecture such as the modern application development landscape and serverless middleware You will learn about web application development in Azure PaaS with modern JavaScript Since the last edition was based on the legacy NET Framework Practical Azure Application Development has been updated with significant ASP NET Core changes Also new in this edition production ready setup with traffic flow and configuration of the application with production ready features Finally you ll cover extended architecture patterns to see how you can integrate additional services with the application After reading this book you will be able to build complete business solutions on Azure using different services What You Will Learn Discover end to end solution design and development in Azure Integrate additional services with the application Understand the basics of security data protection and cost controls in Azure Who This Book Is For Developers and architects who have experience in NET and web development but have little or no knowledge in planning and developing an application on Azure **Implementing DevOps with Microsoft Azure** Mitesh Soni,2017-04-28 Accelerate and Automate Build Deploy and Management of applications to achieve High Availability About This Book This guide highlights tools that offer development and deployment environments for application services Secure and continuously monitor your web application in order to make it highly available Use Visual Studio Team Services for Continuous Integration and Continuous Development to expedite your application life cycle

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Storage design ensuring an efficient and secure cloud infrastructure You ll also discover how to automate Azure through Infrastructure as Code IaC and leverage various Azure services to support OLTP applications Next you ll explore how to implement Azure offerings for event driven architectural solutions and serverless applications Additionally you ll gain in depth knowledge on how to develop an automated secure and scalable solutions Core elements of the Azure ecosystem will be discussed in the final chapters of the book such as big data solutions cost governance and best practices to help you optimize your business By the end of this book you ll understand what a well architected Azure solution looks like and how to lead your organization toward a tailored Azure solution that meets your business needs What you will learn Optimize the performance and costs with Azure Select an effective scalable and flexible solution that aligns with your needs Harness the power of containers to drive your application development and deployment Create big data solutions with the best Azure tools platforms and resources Explore the benefits of automation for enhanced productivity Improve the availability and effectiveness of monitoring with Azure Who this book is forThis book is for business decision makers looking to benefit from the flexibility scalability and optimized costs offered by Microsoft Azure to scale their businesses Basic knowledge of Azure is recommended to get the most out of this book **Azure Active Directory for Secure Application Development** Sjoukje Zaal,2022-05-26 Develop secure applications using different features of Azure Active Directory along with modern authentication techniques and protocols Key Features Confidently secure your Azure applications using the tools offered by Azure AD Get to grips with the most modern and effective authorization and authentication protocols Unlock the potential of Azure AD s most advanced features including Microsoft Graph and Azure AD B2C Book Description Azure Active Directory for Secure Application Development is your one stop shop for learning how to develop secure applications using modern authentication techniques with Microsoft Azure AD Whether you re working with single tenant multi tenant or line of business applications this book contains everything you need to secure them The book wastes no time in diving into the practicalities of Azure AD Right from the start you ll be setting up tenants adding users and registering your first application in Azure AD The balance between grasping and applying theory is maintained as you move from the intermediate to the advanced from the basics of OAuth to getting your hands dirty with building applications and registering them in Azure AD Want to pin down the Microsoft Graph Azure AD B2C or authentication protocol best practices We ve got you covered The full range of Azure AD functionality from a developer perspective is here for you to explore with confidence By the end of this secure app development book you ll have developed the skill set that so many organizations are clamoring for Security is mission critical and after reading this book you will be too What you will learn Get an overview of Azure AD and set up your Azure AD instance Master application configuration and the use of service principals Understand new authentication protocols Explore the Microsoft Identity libraries Use OpenID Connect OAuth 2 0 and MSAL to make sign in fully secure Build a custom app that leverages the Microsoft Graph API Deploy Azure AD B2C to meet your security requirements Create

user flows and policies in Azure AD B2C Who this book is for If you are a developer or architect who has basic knowledge of Azure Active Directory and are looking to gain expertise in the application security domain this is the book for you Basic Azure knowledge and experience in building web applications and web APIs in C will help you get the most out of this book

Implementing Azure Solutions Florian Klaffenbach,Jan-Henrik Damaschke,Oliver Michalski,2017-05-19 A practical guide that enhances your skills in implementing Azure solutions for your organization About This Book Confidently configure deploy and manage cloud services and virtual machines Implement a highly secured environment and respond to threats with increased visibility This comprehensive guide is packed with exciting practical scenarios that enable you to implement Azure solutions with ease Who This Book Is For This book is for IT architects system and network admins and DevOps engineers who are aware of Azure solutions and want to implement them for their organization What You Will Learn Implement virtual networks network gateways Site to Site VPN ExpressRoute routing and network devices Understand the working of different storage accounts in Azure Plan deploy and secure virtual machines Deploy and manage Azure Containers Get familiar with some common Azure usage scenarios In Detail Microsoft Azure has numerous effective solutions that shape the future of any business However the major challenge that architects and administrators face are implementing these solutions appropriately Our book focuses on various implementation scenarios that will help overcome the challenge of implementing Azure s solutions in a very efficient manner and will also help you to prepare for Microsoft Architect exam You will not only learn how to secure a newly deployed Azure Active Directory but also get to know how Azure Active Directory Synchronization could be implemented To maintain an isolated and secure environment so that you can run your virtual machines and applications you will implement Azure networking services Also to manage access and secure your confidential data you will implement storage solutions Toward the end you will explore tips and tricks to secure your environment By the end you will be able to implement Azure solutions such as networking storage and cloud effectively Style and approach This step by step guide focuses on implementing various Azure solutions for your organization The motive is to provide a comprehensive exposure and ensure they can implement these solutions with ease **Mastering Cloud Development using Microsoft Azure** Roberto Freato,Marco Parenzan,2016-06-28 Master the art of efficiently composing Azure services and implement them in real world scenarios About This Book Build an effective development environment in Azure using the right set of technologies Architect a full stack solution in the cloud to choose the best service set A comprehensive guide full of real life examples to help you take your developer skills up a notch Who This Book Is For If you are a developer a full stack developer or an architect with an intermediate level understanding of cloud computing and Microsoft Azure and you want to take your skills up a notch this book is for you Prior knowledge and understanding of cloud development strategies is assumed What You Will Learn Set up a development environment with VMs ARM and RemoteApp Connect with VPNs to manage security and backups Establish a front end architecture with AppService storage search and caching Implement

identity solutions integrate applications and use data Integrate cross platform mobile applications with the cloud Consistently build and manage an API layer for millions of users Work with messages in the enterprise Deploy your services as an IT expert with ARM templates In Detail Microsoft Azure is a cloud computing platform that supports many different programming languages tools and frameworks including both Microsoft specific and third party software and systems This book starts by helping you set up a professional development environments in the cloud and integrating them with your local environment to achieve improved efficiency You will move on to create front end and back end services and then build cross platform applications using Azure Next you ll get to grips with advanced techniques used to analyze usage data and automate billing operations Following on from that you will gain knowledge of how you can extend your on premise solution to the cloud and move data in a pipeline In a nutshell this book will show you how to build high quality end to end services using Microsoft Azure By the end of this book you will have the skillset needed to successfully set up develop and manage a full stack Azure infrastructure Style and Approach This comprehensive guide to Azure has both explorative parts and step by step ones Each chapter defines a learning path to a specific scenario mixing the appropriate technologies and building blocks efficiently   *Mastering Azure Serverless Computing* Lorenzo Barbieri,Massimo Bonanni,2019-11-22 Become an expert in implementing Azure Functions to work seamlessly with your serverless applications Key FeaturesDevelop scalable robust multi tier apps without worrying about infrastructure needsDeploy and manage cost effective and highly available serverless apps using Azure FunctionsAccelerate enterprise level application development by seamlessly integrating different cloud services with Azure FunctionsBook Description Application development has evolved from traditional monolithic app development to using serverless options and microservices This book is designed to guide you through using Microsoft s Azure Functions to process data integrate systems and build simple APIs and microservices You will discover how to apply serverless computing to speed up deployment and reduce downtime You ll also explore Azure Functions including its core functionalities and essential tools along with understanding how to debug and even customize Azure Functions In addition to this the book will take you through how you can effectively implement DevOps and automation in your working environment Toward the concluding chapters you ll cover some quick tips troubleshooting techniques and real world serverless use cases that will help you make the most of serverless computing By the end of this book you will have gained the skills you need to develop and deliver cost effective Azure serverless solutions What you will learnCreate and deploy advanced Azure FunctionsLearn to extend the runtime of Azure FunctionsOrchestrate your logic through code or a visual workflowAdd caching security routing and filtering to your APIsUse serverless technologies in real world scenariosUnderstand how to apply DevOps and automation to your working environmentWho this book is for This book is designed for cloud administrators architects and developers interested in building scalable systems and deploying serverless applications with Azure Functions Prior knowledge of core Microsoft Azure services and Azure Functions is necessary to understand the topics

covered in this book   Azure Serverless Computing Cookbook Praveen Kumar Sreeram,2017-08-17 Over 50 recipes to help you build applications hosted on Serverless architecture using Azure Functions About This Book Enhance Azure Functions with continuous deployment using Visual Studio Team Services Learn to deploy and manage cost effective and highly available serverless applications using Azure Functions This recipe based guide will teach you to build a robust serverless environment Who This Book Is For If you are a Cloud administrator architect or developer who wants to build scalable systems and deploy serverless applications with Azure functions then this book is for you Prior knowledge and hands on experience with core services of Microsoft Azure is required What You Will Learn Develop different event based handlers supported by serverless architecture supported by Microsoft Cloud Platform Azure Integrate Azure Functions with different Azure Services to develop Enterprise level applications Get to know the best practices in organizing and refactoring the code within the Azure functions Test troubleshoot and monitor the Azure functions to deliver high quality reliable and robust cloud centric applications Automate mundane tasks at various levels right from development to deployment and maintenance Learn how to develop statefulserverless applications and also self healing jobs using DurableFunctions In Detail Microsoft provides a solution to easily run small segment of code in the Cloud with Azure Functions Azure Functions provides solutions for processing data integrating systems and building simple APIs and microservices The book starts with intermediate level recipes on serverless computing along with some use cases on benefits and key features of Azure Functions Then we ll deep dive into the core aspects of Azure Functions such as the services it provides how you can develop and write Azure functions and how to monitor and troubleshoot them Moving on you ll get practical recipes on integrating DevOps with Azure functions and providing continuous integration and continous deployment with Visual Studio Team Services It also provides hands on steps and tutorials based on real world serverless use cases to guide you through configuring and setting up your serverless environments with ease Finally you ll see how to manage Azure functions providing enterprise level security and compliance to your serverless code architecture By the end of this book you will have all the skills required to work with serverless code architecture providing continuous delivery to your users Style and approach This recipe based guide explains the different features of Azure Function by taking a real world application related to a specific domain You will learn how to implement automation and DevOps and discover industry best practices to develop applications hosted on serverless architecture using Azure functions   **Migrating Applications to the Cloud with Azure** Sjoukje Zaal,Amit Malik,Sander Rossel,Jason Marston,Mohamed Wali,Stefano Demiliani,2019-12-06 Modernize your apps with Microsoft Azure by moving web desktop and mobile apps to the cloud Key FeaturesDecide which migration strategy is most suitable for your organization and create a migration roadmapMove existing infrastructure to Azure and learn strategies to reduce cost increase storage and improve ROIDesign secure scalable and cost effective solutions with the help of practical examplesBook Description Whether you are trying to re architect a legacy app or build a cloud ready app from scratch using the Azure ecosystem with NET and Java

technologies helps you to strategize and plan your app modernization process effectively With this book you ll learn how to modernize your applications by using Azure for containerization DevOps microservices and serverless solutions to reduce development time and costs while also making your applications robust secure and scalable You will delve into improving application efficiency by using container services such as Azure Container Service Azure Kubernetes Service AKS and more Next you will learn to modernize your application by implementing DevOps throughout your application development life cycle You will then focus on increasing the scalability and performance of your overall application with microservices before learning how to add extra functionality to your application with Azure serverless solutions Finally you ll get up to speed with monitoring and troubleshooting techniques By the end of this book you will have learned how to use the Azure ecosystem to refactor re architect and rebuild your web mobile and desktop applications What you will learnUse DevOps and containerization technologies to modernize your applications and infrastructureBuild microservices using Azure Service FabricDevelop scalable applications using Azure FunctionsManage and deploy your application code and database connectivitySecure and monitor your applications in Azure effectivelyDesign for high availability and disaster recoveryWho this book is for This book is for NET and Java developers who want to modernize their applications using Azure Solution architects and experienced developers interested in modernizing legacy applications using Azure will also find this book useful Some prior understanding of cloud computing concepts will be beneficial   *Essential Windows Azure* Kevin Hoffman,Nathan Dudek,2010-12-17 A complete guide for every NET developer who wants to move into cloud computing with Windows Azure this book walks the user through the cloud applications that respond to today s development face

   Building Elastic and Resilient Cloud Applications Dominic Betts,Jeremi Bourgault,Julian Dominguez,Ercenk Keresteci,Grigori Melnik,Fernando Simonazzi,Erwin van der Valk,2013-03-18 This book demonstrates how you can use the Enterprise Library Integration Pack for Windows Azure in an existing Windows Azure application to enhance the maintainability manageability scalability stability and extensibility of the application Windows Azure offers exciting opportunities for developers to build large and complex applications to run in the cloud Windows Azure enables you to take advantage of a pay as you go billing model for your application infrastructure and on demand computing resources The Autoscaling Application Block helps to take advantage of the elastic nature of Windows Azure by automatically handling changes in the load levels over time and scaling out or throttling accordingly This will help to meet your SLAs and also reduce the number of manual tasks that your application operator must perform while staying on budget The Transient Fault Handling Application Block provides a set of reusable components for adding detection strategies and sophisticated retry logic into your Windows Azure applications using SQL Azure Windows Azure Storage Service Bus and Caching Service This makes your Windows Azure application more robust and resilient to transient faults which improves overall application stability Benefit from the autoscaling and transient fault capabilities spend more time focusing on your business logic and

spend less time on the plumbing The Enterprise Library Integration Pack for Windows Azure will do the heavy lifting for you This guide helps you to quickly grasp what the Enterprise Library Integration Pack for Windows Azure can do for you presents examples that show it in action and makes it easier for you to start experimenting with these new application blocks The book is intended for any architect developer or information technology IT professional who designs builds or operates applications and services that are appropriate for the cloud and who wants to learn how to realize the benefits of using Enterprise Library in a cloud based application You should be familiar with Windows Azure the NET Framework Visual Studio ASP NET and Visual C to derive full benefit from reading this guide   *Learning Microsoft Azure* Geoff Webber-Cross,2014-10-16 If you are a developer interested in building systems for Microsoft Azure with an understanding of efficient cloud based application development then this is the book for you

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Table of Contents Microsoft Azure Enterprise Application Development Duchene Nathan A

1. Understanding the eBook Microsoft Azure Enterprise Application Development Duchene Nathan A
   - The Rise of Digital Reading Microsoft Azure Enterprise Application Development Duchene Nathan A
   - Advantages of eBooks Over Traditional Books
2. Identifying Microsoft Azure Enterprise Application Development Duchene Nathan A
   - Exploring Different Genres
   - Considering Fiction vs. Non-Fiction
   - Determining Your Reading Goals
3. Choosing the Right eBook Platform
   - Popular eBook Platforms
   - Features to Look for in an Microsoft Azure Enterprise Application Development Duchene Nathan A
   - User-Friendly Interface
4. Exploring eBook Recommendations from Microsoft Azure Enterprise Application Development Duchene Nathan A
   - Personalized Recommendations
   - Microsoft Azure Enterprise Application Development Duchene Nathan A User Reviews and Ratings
   - Microsoft Azure Enterprise Application Development Duchene Nathan A and Bestseller Lists
5. Accessing Microsoft Azure Enterprise Application Development Duchene Nathan A Free and Paid eBooks

Microsoft Azure Enterprise Application Development Duchene Nathan A Introduction

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