



Microsoft Azure: Enterprise Application Development

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

Richard J. Dudley

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[PACKT] enterprise ⁸⁸
PUBLISHING

Microsoft Azure Enterprise Application Development

Duchene Nathan A

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Microsoft Azure Enterprise Application Development Duchene Nathan A:

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 **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

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 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 continuous 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.

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 management process. Use Microsoft Azure App Services, Azure Web Apps, Azure Websites, PaaS offerings from Microsoft to deploy web applications. Who This Book Is For This book is for DevOps engineers, system administrators, and developers new to who want to implement DevOps for their organization. You do not need to have any knowledge of VSTS or Azure App Services, Azure Web Apps, Azure Websites.

What You Will Learn Explore the features of PaaS and aPaaS in DevOps. Use Visual Studio Team Services (VSTS) to manage versions of code and integrating VSTS with Eclipse IDE. Understand and configure Continuous Integration in VSTS. Review Unit Test Execution for Automated Testing. Create different environments that can be used to continuously deploy a web application. Configure Role-based Access to enable secure access for Azure Web Apps. Create and configure the App Service Environment to enhance security. Understand the execution of the end-to-end automation process. Conduct Performance Testing using JMeter. Discover the different monitoring options available in Microsoft Azure Portal.

In Detail This book will teach you all about the Visual Studio Team Services and Microsoft Azure PaaS offerings that support Continuous Integration, Continuous Delivery, Continuous Deployment, and execution in the cloud with high availability, disaster recovery, and security. You will first be given a tour of all the concepts and tools that Microsoft Azure has to offer and how these can be used in situations to cultivate the DevOps culture. You'll be taught how to use and manage Visual Studio Team Services (VSTS) and about the structure of the sample application used throughout the book. You will become familiar with the nitty-gritty of Continuous Integration and Continuous Development with VSTS and Microsoft Azure Apps. You will not only learn how to create App Service environments but also how to compare Azure Web Apps and App Service Environments to deploy web applications in a more secure environment. Once you have completed Continuous Integration and created the Platform for application deployment, you will learn more about the final stepping stone in achieving end-to-end automation using approval-based Continuous Delivery and Deployment. You will then learn

about Continuous Monitoring using the monitoring and notification options provided by Microsoft Azure and Visual Studio Team Services Style and Approach This book is an easy to follow guide filled with examples and real world applications for gaining an in depth understanding of Microsoft Azure and Visual Studio This book will help you leverage Microsoft Azure and Visual Studio using real world examples

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 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

Developing Cloud Native Applications in Azure using .NET Core Kodali Rekha, 2020-02-01 Guide to designing and developing cloud native applications in Azure Key Features a Basics of Cloud Native Applications a Designing Microservices a Different cloud native options for developing Cloud Native Applications in Azure a BOTs Web Apps Mobile Apps Logic Apps

Service Bus Azure Functionsa Azure IOT Applicationsa Azure Machine Learning Basicsa Enterprise Digital JourneysDescriptionThe mainstreaming of the cloud native architecture as an enterprise discipline is well underway According to the Forbes report in January 2018 83% of enterprise workloads will be in the cloud by 2020 41% of enterprise workloads will run on public cloud platforms while another 22% will be running on hybrid cloud platforms Customers are embarking on enterprise digital transformation journeys Adopting cloud cloud native architectures and microservices is an important aspect of the journey This book starts with a brief introduction to the basics of cloud native applications and cloud native application patterns It covers cloud native options available in Azure The objective of the book is to provide practical guidelines to an architect designer consultant developer who is part of the Cloud application definition team The book articulates a methodology that the implementation team needs to follow in a systematic manner and adapt them to fulfill the requirements for enabling the cloud native application It emphasizes on the interpersonal skills and techniques for organizing and directing the cloud native definition leadership buy in and leading the transition from planning to implementation It also highlights steps to be followed and the patterns for developing cloud native applications cloud native options available in Azure developing BOT and microservices based on Azure It also covers how to develop simple IoT applications Machine learning based applications and the serverless architecture using Azure with a practical and pragmatic approach This book embraces a structured approach around the following key themes that represent the typical phases an enterprise traverses during its cloud native application journey What will you learnThis book aims to a Demonstrate the importance of cloud native applications in elevating the effectiveness of organizational transformation programs and digital enterprise journeys using MS Azure a Disseminate current advancements and thought leadership in the area of cloud native architecture in the context of digital enterprises a Provide initiatives with evidence based credible field tested and practical guidance in designing their respective architectures Who this book is forThe book is intended for anyone looking for a career in Cloud technology especially all aspiring Cloud Architects who want to learn cloud native architectures Microservices IoT BOT and Microsoft Azure platform Table of Contents1 Basics of Cloud Native Applications2 Cloud Native Application Patterns3 Cloud Native Options available in Azure BOTs Logic Apps Service Bus Azure Microservices ML services 4 Developing a Simple BOT using NET Core5 Developing Cloud Native applications leveraging Microservices and Azure API Gateway6 Developing Integration capabilities using serverless architecture7 Developing a simple IoT application8 Developing a simple ML based application9 Different enterprise use cases which enable digital transformation using Cloud Native Applications **Azure Administration** Nathan Beckford,2025-07-26 Accelerate your cloud expertise with Azure Administration Professional Guide a comprehensive manual for designing deploying and managing 45 real world infrastructure solutions using Microsoft Azure Built for IT administrators cloud engineers and system architects this guide delivers hands on instruction for mastering enterprise grade cloud environments on premises hybrid and fully cloud native

Inside you'll learn how to Deploy virtual networks VMs containers and storage solutions Configure identity and access with Azure AD and RBAC Implement resilient hybrid environments using Azure Arc and ExpressRoute Automate infrastructure using ARM templates Bicep and PowerShell Secure workloads with firewalls policies and compliance tools Monitor troubleshoot and scale applications with real time telemetry With 45 complete projects including migration strategies security configurations and cost optimization techniques this guide provides the practical skills and confidence to manage complex Azure infrastructures Whether you're building greenfield environments or modernizing legacy systems this book empowers you to lead cloud transformation initiatives with precision and scalability Master the tools Build the cloud Get your copy now and take control of Azure infrastructure like a pro

Building Web Services with Microsoft Azure Alex Belotserkovskiy, Nikhil Sachdeva, Stephen Kaufman, 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

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 **Application Delivery and Load Balancing in Microsoft Azure** Derek DeJonghe, Arlan Nugara, 2020-12-04 With more and more companies moving on premises applications to the cloud software and cloud solution architects alike are busy investigating ways to improve load balancing performance security and high availability for workloads This practical book describes Microsoft Azure's load balancing options and explains how NGINX can contribute to a comprehensive solution Cloud architects Derek DeJonghe and Arlan Nugara take you through the steps necessary to design a practical solution for your network Software developers and technical managers will learn how these technologies have a direct impact on application development and architecture While the examples are specific to Azure these load balancing concepts and implementations also apply to cloud providers such as AWS Google Cloud DigitalOcean and IBM Cloud Understand application delivery and load balancing and why they're important Explore Azure's managed load balancing options Learn how to run NGINX OSS and NGINX Plus on Azure Examine similarities and complementing features between Azure managed solutions and NGINX Use Azure Front Door to define manage and monitor global routing for your web traffic Monitor application performance using Azure and NGINX tools and plug-ins Explore security choices using NGINX and Azure Firewall solutions **Best Practices and Design Patterns in Enterprise Application Development Using Microsoft .NET** Jamil Azher, 2003 **Maximizing Microsoft's Azure for Dev, Test, and DevOps Scenarios** Rand Morimoto, Guy Yardeni, 2014-12-18 Microsoft's Azure cloud based hosted environment is more than just a Platform as a Service PaaS or Infrastructure as a Service IaaS environment Rather Microsoft Azure is highly leveraged by developers of enterprise organizations in their application lifecycle management processes This book covers the key solution areas where Microsoft Azure helps developers extend their development platforms into the cloud and not just for Microsoft based development in .NET or SQL but also for development on Linux and Windows for Perl C Bash and Python managed by tools like Puppet Chef and System Center Solution guidance is shared on day to day operational controls release management and experience of developers who have successfully created a hybrid cloud application development and deployment process leveraging the cloud capabilities of Microsoft Azure **Developing Multi-Tenant Applications for the Cloud on Windows Azure** Dominic Betts, Alex Homer, Alejandro Jezierski, 2013-03 How can you create an application that has truly global reach and can scale rapidly to meet sudden massive spikes in demand Historically companies had to invest in an infrastructure capable of supporting such an application themselves and plan for peak demand which often means that much of the capacity sits idle for much of the time Typically only large companies would have the available resources to risk such an enterprise The cloud has changed the rules of the game By making infrastructure available on a pay as you go basis creating a massively scalable global application is within the reach of both large and small companies Yes by moving applications to the cloud you're giving up some control and autonomy but you're also going to benefit from reduced costs increased flexibility and scalable computation and storage This guide is the third release of the second volume in a series

about Windows Azure It demonstrates how you can create from scratch a multi tenant Software as a Service SaaS application to run in the cloud by using the Windows Azure tools and the increasing range of capabilities of Windows Azure The guide focuses on both good practice design and the practicalities of implementation for multi tenant applications but also contains a wealth of information on factors such as security scalability availability and elasticity that are relevant to all types of cloud hosted applications The guide is intended for any architect developer or information technology IT professional who designs builds or operates applications and services that run on or interact with the cloud Although applications do not need to be based on the Windows operating system to work in Windows Azure or be written using a NET language this guide is written for people who work with Windows based systems You should be familiar with the NET Framework Visual Studio ASP NET MVC and Visual C

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

Azure Enterprise Development: 2 Application Services Mike Benkovich,2018 **Machine Learning Deployments in Microsoft Azure**

and Amazon AWS Nathan Segers, 2019

Reviewing **Microsoft Azure Enterprise Application Development Duchene Nathan A**: Unlocking the Spellbinding Force of Linguistics

In a fast-paced world fueled by information and interconnectivity, the spellbinding force of linguistics has acquired newfound prominence. Its capacity to evoke emotions, stimulate contemplation, and stimulate metamorphosis is really astonishing. Within the pages of "**Microsoft Azure Enterprise Application Development Duchene Nathan A**," an enthralling opus penned by a highly acclaimed wordsmith, readers embark on an immersive expedition to unravel the intricate significance of language and its indelible imprint on our lives. Throughout this assessment, we shall delve into the book's central motifs, appraise its distinctive narrative style, and gauge its overarching influence on the minds of its readers.

<https://staging.conocer.cide.edu/public/publication/Documents/King%20Kobold%20Further%20Adventures%20Of%20A%20Cosmic%20Warlock.pdf>

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