

## Building Cloud Apps With Microsoft Azure Best Practices For Devops Data Storage High Availability And More Developer Reference

A step-by-step tutorial to get acquainted with the ASP.NET MVC4 Framework and its features in order to discover how to develop web applications using them. This book is targeted at people who are familiar with C# development on the .NET platform and are interested in web development with the ASP.NET development framework. No prior web or mobile development experience is required

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

The first textbook to teach students how to build data analytic solutions on large data sets using cloud-based technologies. This is the first textbook to teach students how to build data analytic solutions on large data sets (specifically in Internet of Things applications) using cloud-based technologies for data storage, transmission and mashup, and AI techniques to analyze this data. This textbook is designed to train college students to master modern cloud computing systems in operating principles, architecture design, machine learning algorithms, programming models and software tools for big data mining, analytics, and cognitive applications. The book will be suitable for use in one-semester computer science or electrical engineering courses on cloud computing, machine learning, cloud programming, cognitive computing, or big data science. The book will also be very useful as a reference for professionals who want to work in cloud computing and data science. Cloud and Cognitive Computing begins with two introductory chapters on fundamentals of cloud computing, data science, and adaptive computing that lay the foundation for the rest of the book. Subsequent chapters cover topics including cloud architecture, mashup services, virtual machines, Docker containers, mobile clouds, IoT and AI, inter-cloud mashups, and cloud performance and benchmarks, with a focus on Google's Brain Project, DeepMind, and X-Lab programs, IBKai HwangM SyNapse, Bluemix programs, cognitive initiatives, and neurocomputers. The book then covers machine learning algorithms and cloud programming software tools and application development, applying the tools in machine learning, social media, deep learning, and cognitive applications. All cloud systems are illustrated with big data and cognitive application examples.

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 offering from Microsoft to deploy web application Who This Book Is For This book is for DevOps engineers, system administrators, and developers (.net) 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 continuous deploy a web application Configure Roll-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.

Build large-scale, mission-critical hardened applications on the Azure cloud platform. This 2nd edition provides information on the newer features in Azure, such as Linux extensions and supporting Azure Services such as HDInsight and SQL Server on Linux. Updated with new applications Hardening Azure Applications also discusses Scale Sets (VMSS), a major upgrade that enables autoscaling and seamlessly makes machines ready for high availability. The authors take you step by step through the process of evaluating and building applications with the appropriate hardness attributes. After a small introduction to cloud computing, you will learn about various cloud and hardened cloud applications in detail. Next, you will discover service fundamentals such as instrumentation, telemetry, and monitoring followed by key application experiences. Further, you will cover availability and the economics of 9s. Towards the end, you will see how to secure your application and learn about the modernization of software organisations, a new topic in this edition. After reading this book, you will master the techniques and engineering principles that every architect and developer needs to know to harden their Azure/.NET applications to ensure maximum reliability and high availability when deployed at scale. What You Will Learn Use techniques and principles to harden Azure/.NET applications Secure your applications on Azure Create a scale set on Azure Work with service fundamentals such as instrumentation, telemetry, and monitoring Who This Book Is For Developers and IT professionals who are working on Azure applications. Create real-world enterprise solutions with NAV, Cloud, and the Microsoft stack About This Book\* Integrate NAV with various offerings of the Microsoft stack to create enterprise-ready and service-oriented solutions\* Use Power BI and Universal Windows Platform for effective data analysis and real-time tracking with NAV\* Discover the services offered by Microsoft Azure and implement them in different industries using real-world case scenarios Who This Book Is For This book is for NAV developers and solution architects who need to implement real-world

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enterprise solutions based on Microsoft Dynamics NAV. Knowledge of the NAV programming language (C/AL) is recommended. Knowledge of C# would help, but is not necessary. What you will learn\* Configure NAV Web Services and create external applications with Visual Studio, .NET, and .NET Core.\* Solve technical architectural problems by implementing enterprise solutions with NAV\* Develop applications and solutions with Microsoft Dynamics NAV and the Microsoft technology stack\* Create a Power BI dashboard for rich reporting and NAV data analysis\* Find out how to transmit your device location from a UWP application to NAV\* Make the most of Microsoft Azure and its services\* Create enterprise solutions with NAV by using Azure App Service\* Use Azure Service Bus for managing distributed NAV applications

In Detail Implementing Microsoft Dynamics NAV in the real world often requires you to integrate the ERP with external applications or solve complex architectural tasks in order to have a final successful project. This book will show you how to extend a Microsoft Dynamics NAV installation to the enterprise world in a practical way. The book starts with an introduction to Microsoft Dynamics NAV architecture and then moves on to advanced topics related to implementing real-world solutions based on NAV and external applications. You will learn how an enterprise distributed architecture with NAV at the core can be implemented. Through a series of real-world cases on every topic and every industry (sales, retail, manufacturing, distribution, healthcare, and so on), you'll see step by step how to efficiently solve a technical problem. These common problems encountered in a NAV implementation will be solved using the entire technology stack that Microsoft offers. By the end of the book, you will have the knowledge to efficiently solve certain scenarios, you will know which is the best solution architecture to propose to a customer and how to implement it.

Overwhelmed with the options for building mobile apps with SAP UI5? This guide offers a comprehensive introduction to SAP UI5 mobile apps in Eclipse, SAP Cloud Platform, and Microsoft Visual Studio. Explore how to build business and data-driven applications using different platforms to deploy hybrid applications to multiple devices. Walk through the different environments that can be used with SAP UI5. Review best practices for leveraging the Model View Controller (MVC). Examine the advantages of development in an Eclipse environment, along with how to leverage SAP Mobile SDK and the SAP Gateway. By using detailed examples, tips, and screenshots, the author brings readers quickly up to speed on the fundamentals of building mobile apps: - Introduction to mobile and SAP UI5 development - Steps for building mobile apps in Eclipse, SAP Cloud Platform, and Microsoft Visual Studio - How to deploy apps to multiple devices - Advantages and disadvantages of using different environments

Why do crucial business partnerships and alliances fail so often and how can you keep it from happening to you? Partnering with the Frenemy answers these questions, helping you anticipate, prevent, and solve the problems that lead close business relationships to implode. Drawing on cutting-edge research, Sandy Jap illuminates the widespread "frenemy" phenomenon in organizational partnerships, where partners who start as non-competitive "friends" become "enemies" over time. She identifies key economical and structural causes of "frenemization," in which success creates imbalances in power dynamics, leading partners to generate resentment, contempt, and often direct competition. She also illuminates crucial social causes for partnership failure, where seemingly innocuous acts of interpersonal opportunism and "sins of omission" gradually poison collaboration. To support her insights, she offers numerous case studies, both ongoing and historical, including Samsung/Google, Martha Stewart/Macy's, Oracle/Sun Microsystems, Best Buy/Apple, Calvin Klein/Warnaco, and Nike/Footlocker. Most important, she offers specific recommendations for avoiding problems, revitalizing weakening partnerships, and recognizing when a partnership can't be saved. IT'S NOT JUST ABOUT CONTRACTS AND MONEY Understand how to better manage emotions, suspicions, and expectations from Day 1 WHAT YOU CAN LEARN FROM OTHERS' FAILING PARTNERSHIPS Anticipate, prevent, and mitigate the core causes of business relationship failure RECOGNIZE PARTNERING "OPPORTUNISM" BEFORE IT DESTROYS COLLABORATION Fix partnering problems while you still can IT'S NOT A MARRIAGE: HOW TO BECOME COMFORTABLE SAYING GOODBYE Know when to end a partnership, and how to part as "friends"

Thought-provoking and accessible in approach, this updated and expanded second edition of the Building Cloud Apps with Microsoft Azure: Best Practices for DevOps, Data Storage provides a user-friendly introduction to the subject, Taking a clear structural framework, it guides the reader through the subject's core elements. A flowing writing style combines with the use of illustrations and diagrams throughout the text to ensure the reader understands even the most complex of concepts. This succinct and enlightening overview is a required reading for advanced graduate-level students. We hope you find this book useful in shaping your future career. Feel free to send us your enquiries related to our publications to [info@risepress.pw](mailto:info@risepress.pw) Rise Press

"This course shows entry to mid-level Visual Studio developers how to create customized REST Web APIs using the ASP.NET framework and then how to deploy those APIs to Microsoft's Azure cloud computing platform. It begins with a description of the REST protocol and an overview of ASP.NET controllers and models, followed by a discussion of the Microsoft OWIN pipeline specification and how to write custom middleware to utilize that specification. It then moves into a detailed overview of Azure and how to host API systems in the cloud before finishing with an explanation of how to build C# and JavaScript client programs that can communicate with APIs from remote systems."--Resource description page.

Guide to designing and developing cloud native applications in Azure DESCRIPTION The mainstreaming of Cloud Native Architecture as an enterprise discipline is well underway. According to the Forbes report in January 2018, 83% of the enterprise workloads will be in the cloud by 2020 and 41% of the enterprise workloads will run on public cloud platforms, while another 22% will be running on hybrid cloud platforms. Customers are embarking on the enterprise digital transformation journeys. Adopting cloud and cloud native architectures and microservices is an important aspect of the journey. This book starts with a brief introduction on the basics of cloud native applications, cloud native application patterns. Then it covers the cloud native options available in Azure. The objective of the book is to provide practical guidelines to an architect/designer/consultant/developer, who is a part of the Cloud application definition Team. The book articulates a methodology that the implementation team needs to follow in a step-by-step manner and adopt them to fulfil the requirements for enablement of the Cloud Native application. It emphasizes on the interpersonal skills and techniques for organizing and directing the Cloud Native definition, leadership buy-in, leading the transition from planning to implementation. It also highlights the steps to be followed for performing the cloud native applications, cloud native patterns in the development of Cloud native applications, Cloud native options available in Azure, Developing BOT, Microservices based on Azure. It also covers how to develop simple IoT applications, Machine learning based applications, server less architecture, using Azure with a practical and pragmatic approach. This book embraces a structured approach organized around the following key themes, which represent the typical phases that an enterprise traverses during its Cloud Native application journey: ? Basics of Cloud Native Applications: It covers basics of cloud native applications using .NET core. ? Cloud Native Application Patterns: The reader will understand the patterns for developing Cloud Native Applications. ? Cloud Native Options available in Azure: The reader will understand the different options available in Azure. ? Developing a Simple BOT using .NET Core: The reader will understand the Azure BOT framework basics and will learn how to develop a simple BOT. ? Developing cloud native applications leveraging Microservices: The reader will understand the concepts of developing micro services using the Azure API Gateway Manager. ? Developing Integration capabilities using serverless architecture: The reader will understand the integration capabilities and various options available in Azure ? Developing a simple IoT application: The reader will understand the basics of developing IoT applications. ? Developing a simple ML based application: The reader will understand Machine Learning basics and how to develop a simple ML application ? Different enterprise use cases, which enable digital transformation using the Cloud Native Applications: The reader will learn about different use cases that can be built using cloud native applications KEY FEATURES (Add 5-7 key features only) ? Basics of Cloud Native Applications ? Designing Microservices ? Different cloud

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native options for developing Cloud Native Applications in Azure ? BOTs, Web Apps, Mobile Apps, Logic Apps, Service Bus, Azure Functions ? Azure IOT Applications ? Azure Machine Learning Basics ? Enterprise Digital Journeys WHAT WILL YOU LEARN This book aims to: ? Demonstrate the importance of a Cloud Native application in elevating the effectiveness of organizational transformation programs and digital enterprise journeys, using MS Azure ? Disseminate current advancements and thought leadership in the area of Cloud Native architecture, in the context of digital enterprises ? Provide initiatives with evidence-based, credible, field tested and practical guidance in crafting their respective architectures; and ? Showcase examples and experiences of the innovative use of Cloud Native Applications in enhancing transformation initiatives. WHO THIS BOOK IS FOR The book is intended for anyone looking for a career in Cloud technology, all aspiring Cloud Architects who want to learn Cloud Native Architectures, Microservices, IoT, BoT and Microsoft Azure platform and working professionals who want to switch their career in Cloud Technology. While no prior knowledge of Azure or related technologies is assumed, it will be helpful to have some .Net programming experience. In addition, the target audience of this book are, ? Business Leaders, Chief Architects, Analysts and Designers seeking better, quicker and easier approaches to respond to needs of their internal and external customers; ? CIOs/CTOs of business software companies interested in incorporating Cloud Native architecture to differentiate their products and services offerings and increasing the value proposition to their customers; ? Consultants and practitioners desirous of new solutions and technologies to improve productivity of their clients; ? Academic and consulting researchers looking to uncover and characterize new research problems and programmes ? Practitioners and professionals involved with organizational technology strategic planning, technology procurement, management of technology projects, consulting and advising on technology issues and management of total cost of ownership. Table of Contents 1. Basics of Cloud Native Applications 2. Cloud Native Application Patterns 3. Cloud Native Options available in Azure – BOTs, Logic Apps, Service Bus, Azure Microservices, ML services 4. Developing a Simple BOT using .NET Core 5. Developing Cloud Native applications leveraging Microservices and Azure API Gateway 6. Developing Integration capabilities using serverless architecture 7. Developing a simple IoT application 8. Developing a simple ML based application 9. Different enterprise use cases which enable digital transformation using Cloud Native Applications

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 finally 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 different 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 different 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, configuration, 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. The Book "Massive Open Online Courses (MOOCs) For Everyone", is the most comprehensive educational web resource book that will explore the most famous innovative educational paradigm MOOC, online learning platforms and world's prestigious higher education institutions which are offering open online courses at free of cost. The book will also cover the short history about the term, potential benefits of participation in an open online course, and how MOOCs have been transforming/revolutionizing/disseminating the ecosystem of education using advanced technologies and innovative pedagogical techniques. This book will be useful for learners who are looking for free, open, online courses to learn the new things or would like to improve their level of knowledge on a particular subject. There are vast number of open online courses available in various topics through online learning platforms which are mentioned in this book. By participating in the free open online courses offered by various universities and institutions, learners can become expert in their favorite subject and improve the career in an efficient way. This book was written to benefit the students and lifelong learners to learn anything using free open online educational courses. Unleashing the most useful free open online course Resources: The book will explore the details of 90 online learning platforms and more than 275 higher education institutions and organizations which are participating the movement of MOOCs to offer free open online courses. The book was written to represent in-depth education web resources with 9 Chapters and 155 pages.

Pro SQL Database for Windows Azure, 2nd Edition shows how to create enterprise-level database deployments without the usual investment in datacenter and other infrastructure. Take advantage instead of Microsoft's worldwide backbone for cloud computing that delivers all the power of SQL Server in the form of the cloud-based SQL Database for Windows Azure. You can create and deploy a database in mere minutes that is accessible worldwide and takes advantage of SQL Database's high-availability features to protect your data while ensuring 99.9% uptime. SQL Azure is ideally suited for startups, who can benefit from instant access to a robust and secure web-accessible database platform for use in rapidly deploying new products to market. SQL Azure is also ideal for small and mid-sized businesses, giving them the same ability to deploy SQL Server as any large enterprise, but without the management overhead. Even large enterprises find SQL Azure useful in creating failover environments, development environments, extra capacity to handle surges in demand, and more. Pro SQL Database for Windows Azure covers the very latest in Microsoft's fast-moving, cloud platform, showing how to program and administer it in a variety of cloud computing scenarios. You'll learn to program SQL Azure from ASP.NET, from WinForms, and from SQL Reporting Services. You'll learn to manage the platform by planning for scalability, troubleshooting performance issues, and implementing strong security. You'll learn the unique aspects of SQL Azure such as sharding and federation support that combine to place SQL Azure a step above and ahead of the competition. Shows how to use SQL Azure from classic Windows applications, ASP.NET and Windows Communication Foundation Covers management, performance, scalability, and troubleshooting Addresses the all-important issue of securing your data Helps you properly design for high-performance in a cloud environment Helps you adopt the new Federations feature in SQL Azure Public and Private sector decision makers and practitioners need advice to get past the cloud hype and leverage cloud enabled solutions. This book offers a sound planning framework and practical implementation approaches that lead to business strategy realization and balanced ecosystems. Working in an industry that is just starting to touch the surface of cloud computing and what it can do, this book provides a practical approach to helping understand cloud computing and how it might impact businesses. I would highly recommend it to those who want to understand better cloud computing and how it might impact them and their business. - Chuck Carroll International Cable

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Telecommunications Executive and Consultant, and ex-CEO of Telenet This is an important book that provides great insights and pragmatic advice on how to tackle the cloud revolution. - Marco Iansiti Head, Technology and Operations Management Unit, and Co-Chair, Digital Initiative, Harvard Business School

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.

If you are an educator creating a course for edX or a corporate trainer using Open edX for large-scale learning and development initiatives, then edX E-Learning Course Development is the ideal book for you.

C# is undeniably one of the most versatile programming languages available to engineers today. With this comprehensive guide, you'll learn just how powerful the combination of C# and .NET can be. Author Ian Griffiths guides you through C# 8.0 fundamentals and techniques for building cloud, web, and desktop applications. Designed for experienced programmers, this book provides many code examples to help you work with the nuts and bolts of C#, such as generics, LINQ, and asynchronous programming features. You'll get up to speed on .NET Core and the latest C# 8.0 additions, including asynchronous streams, nullable references, pattern matching, default interface implementation, ranges and new indexing syntax, and changes in the .NET tool chain. Discover how C# supports fundamental coding features, such as classes, other custom types, collections, and error handling Learn how to write high-performance memory-efficient code with .NET Core's Span and Memory types Query and process diverse data sources, such as in-memory object models, databases, data streams, and XML documents with LINQ Use .NET's multithreading features to exploit your computer's parallel processing capabilities Learn how asynchronous language features can help improve application responsiveness and scalability

A step-by-step guide to get you up and running with Azure Storage services and helps you build solutions that leverage effective design patterns About This Book Discover best practices for designing and implementing Azure Storage for Azure VMs, and highly available apps Effectively plan, design, and implement SQL databases with Azure Protect your data with Azure Backup and Azure Site Recovery Who This Book Is For This book is targeted at Developers, IT Professionals, and even Database Admins who have experience of working on Microsoft Azure and want to make the most of Azure Storage services. Some knowledge of SQL Server will be beneficial. What You Will Learn Understand Azure Storage types and determine the appropriate one for your needs Design Azure Storage for Azure VMs according to best practices Design and implement your SQL Database on Azure according to best practices Learn how to work with Azure Backup Learn how to work with Azure Site Recovery Extend Azure Storage to StorSimple Monitor storage metrics and logs and customize the Azure monitoring dashboard Monitor and troubleshoot Azure Storage In Detail Microsoft Azure Storage is the bedrock of Microsoft's core storage solution offering in Azure. No matter what solution you are building for the cloud, you'll find a compelling use for Azure Storage. This book will help you get up-to-speed quickly on Microsoft Azure Storage by teaching you how to use the different storage services. You will be able to leverage secure design patterns based on real-world scenarios and develop a strong storage foundation for Azure virtual machines. You will start this book with an introduction to Microsoft Azure storage and how it can be used to build large-scale, real-world applications using Azure storage services such as blob, table, queue, and file. This book will also teach you about the different types of Azure Storage. You will then find out the best practices for designing your Azure VM storage, whether it is Windows based or Linux based and how to migrate your storage in different scenarios. You will learn also how to plan and implement your SQL database solution on Azure, and how to build your SQL database in different service models (IaaS/PaaS). Moreover, you will also learn best practices for dealing with Azure Backup, the role of Azure Site Recovery, and the solutions they offer in different scenarios. Finally, you will use StorSimple to unlock the maximum value from all of your data, and some tools that will help you manage your storage on-and off-premise (Azure), such as AzCopy and Storage Explorer. Monitoring your storage is no laughing matter, so you will learn to monitor, diagnose and troubleshoot it. Style and approach This book will provide an in-depth insight into properly designing your environment and saving money on your running workloads. Using cutting-edge examples, you will be able to efficiently monitor, diagnose, and troubleshoot Azure Storage.

Microsoft Azure is a cloud computing platform that helps you build, deploy, and manage applications to overcome your business challenges. This book covers the commonly used Azure services and also explains how you effectively integrate and utilize them. Transform the way you deliver IT resources digitally to connect to people and businesses. KEY FEATURES ? Extensive demonstration of service and deployment models with related use-cases. ? Includes wide and deep practical scenarios to explore the real cloud platform. ? Broad perspective to manage resources and disaster recovery. ? Infers various security standards and IAM with numerous examples. DESCRIPTION The book 'Building Cloud and Virtualization Infrastructure' covers the designing of a private cloud using various components and tools on various platforms such as AWS and OpenNebula. This book includes network virtualization and integrated technologies such as the Internet of Things and how to create web servers/instances on Amazon Web Services and OpenNebula. The readers will gain a better understanding of the concept of resource management, which offers benefits such as cost savings and improved manageability after reading this book. They will also learn disaster recovery, techniques, and tools to support virtualization, as well as the security challenges inherent in cloud platforms, the various IAM roles and their associated security, and various security standards. WHAT YOU WILL LEARN ? Understand the fundamentals of cloud concepts. ? Explore the knowledge of virtualization through different virtualization tools. ? Understand economic considerations to launch businesses online. ? Create your private cloud as per business needs. ? Learn to choose the right services to grow rapidly in the market. WHO THIS BOOK IS FOR This book is intended for students, researchers, and anyone interested in learning about designing, configuring, and deploying cloud-based applications. The readers should have a basic understanding of networking concepts, but not necessarily of the cloud. TABLE OF CONTENTS 1. Introduction to Cloud 2. Cloud Service Models 3. Cloud Deployment Models 4. Introduction to Hypervisor 5. Introduction to Virtualization 6. Virtualization on IT Assets 7. Experimental Part: Installation and Configuration 8. Practical Approach and Experiments 9. Resource Management in Cloud 10. Security in Cloud

Unleash the power of serverless integration with Azure About This Book Build and support highly available and scalable API Apps by learning powerful Azure-based cloud integration Deploy and deliver applications that integrate seamlessly in the cloud and quickly adapt as per your integration needs Deploy hybrid applications that work and integrate on the cloud (using Logic Apps and BizTalk Server) Who This Book Is For This book is for Microsoft Enterprise developers, DevOps, and IT professionals who would like to use Azure App Service and Microsoft Cloud Integration technologies to create cloud-based web and mobile apps. What You Will Learn Explore new models of robust cloud integration in Microsoft Azure Create your own connector and learn how to publish

and manage it Build reliable, scalable, and secure business workflows using Azure Logic Apps Simplify SaaS connectivity with Azure using Logic Apps Connect your on-premises system to Azure securely Get to know more about Logic Apps and how to connect to on-premises “line-of-business” applications using Microsoft BizTalk Server In Detail Microsoft is focusing heavily on Enterprise connectivity so that developers can build scalable web and mobile apps and services in the cloud. In short, Enterprise connectivity from anywhere and to any device. These integration services are being offered through powerful Azure-based services. This book will teach you how to design and implement cloud integration using Microsoft Azure. It starts by showing you how to build, deploy, and secure the API app. Next, it introduces you to Logic Apps and helps you quickly start building your integration applications. We'll then go through the different connectors available for Logic Apps to build your automated business process workflow. Further on, you will see how to create a complex workflow in Logic Apps using Azure Function. You will then add a SaaS application to your existing cloud applications and create Queues and Topics in Service Bus on Azure using Azure Portal. Towards the end, we'll explore event hubs and IoT hubs, and you'll get to know more about how to tool and monitor the business workflow in Logic Apps. Using this book, you will be able to support your apps that connect to data anywhere—be it in the cloud or on-premises. Style and approach This practical hands-on tutorial shows you the full capability of App Service and other Azure-based integration services to build scalable and highly available web and mobile apps. It helps you successfully build and support your applications in the cloud or on-premises successfully. We'll debunk the popular myth that switching to cloud is risky—it's not!

Your roadmap to Microsoft Azure Azure is Microsoft's flagship cloud computing platform. With over 600 services available to over 44 geographic regions, it would take a library of books to cover the entire Azure ecosystem. Microsoft Azure For Dummies offers a shortcut to getting familiar with Azure's core product offerings used by the majority of its subscribers. It's a perfect choice for those looking to gain a quick, basic understanding of this ever-evolving public cloud platform. Written by a Microsoft MVP and Microsoft Certified Azure Solutions Architect, Microsoft Azure For Dummies covers building virtual networks, configuring cloud-based virtual machines, launching and scaling web applications, migrating on-premises services to Azure, and keeping your Azure resources secure and compliant. Migrate your applications and services to Azure with confidence Manage virtual machines smarter than you've done on premises Deploy web applications that scale dynamically to save you money and effort Apply Microsoft's latest security technologies to ensure compliance to maintain data privacy With more and more businesses making the leap to run their applications and services on Microsoft Azure, basic understanding of the technology is becoming essential. Microsoft Azure For Dummies offers a fast and easy first step into the Microsoft public cloud.

Whether you work for a small start-up or for a large enterprise, this book can help you understand Microsoft Cloud Integration technologies to Integrate application and business processes. By using this book, readers will be able to learn various Architecture design principles while connecting Enterprise application with Azure components.

Are you interested in programming and continuously looking for new ways to expand your knowledge and explore new information? Would you like to learn about one of the most popular cloud computing service platforms on the planet? Or maybe, you already heard about Microsoft Azure, and now you are looking for a complete guide that is going to cover the entire subject? If you answered "Yes" to at least one of these questions, then keep reading... In this Microsoft Azure Book, you will discover: - Chapter 1: Getting started with Microsoft Azure + What is Azure + Overview of cloud computing + Much more - Chapter 2: Azure app service and web apps + App service and App service plans + What is an App Service + So what is an App Service Plan? + Much more! - Chapter 3: Azure virtual machines + What is Azure Virtual Machines + Billing + Stopping An Azure VM + Much more! - Chapter 4: Azure storage + Storage accounts + General-purpose storage accounts+ Much more! And so much more! Keep in mind that this guide is not only for complete programming beginners. It is also for people who already have knowledge about computer programming, software, and various internet platform, but want to learn more and expand their expertise into new fields. Now it is your turn to take action. Scroll up, click on "Buy Now "and start learning!

A step-by-step guide to implementing Continuous Integration and Continuous Delivery for Mobile, Hybrid, and Web applications KEY FEATURES - This book covers all these practices that can be utilized in real-life scenarios with sample applications written in Java, Android, iOS, Node.js, Angular, Ionic Cordova, Xamarin, Python, and PHP. - This book provides detailed insight into Microsoft Azure Cloud, especially Platform as a Service Model - Azure App Services. - This book utilizes the Multi-Stage Pipeline Feature of Azure DevOps. Step by Step implementation of Continuous Practices of DevOps makes it easy to understand even for beginners of DevOps practices. DESCRIPTION This book will cover an approach that includes the understanding of DevOps, Assessment of AS-IS state, DevOps Practices Implementation and measurement of success. The main objective is to demonstrate Continuous Practices of DevOps Culture using Microsoft Azure DevOps and Microsoft Azure Cloud across different types of applications such as Mobile apps, Hybrid Mobile App, and Web applications. The main idea is to have a uniform approach across different types of applications such as Mobile apps, Hybrid Mobile App, and Web applications. It is important to have a uniform approach of DevOps Practices implementation in an application written in different programming languages such as Java, Android, iOS, Node.js, Angular, Ionic Cordova, Xamarin, Python, and PHP. WHAT WILL YOU LEARN - Learn to create a Multi-Stage (CI/CD) Pipeline for sample applications - Configure Unit Test Execution and Code Coverage Reports in Azure DevOps for sample applications - Create and configure Cloud resources using Platform as a Service Model - Azure App Services for Web Applications and deploy Web Applications to Azure App Services using Pipeline - Understand how to distribute Mobile App Packages (APK and IPA) to App Center WHO THIS BOOK IS FOR This book is suitable for DevOps Consultants, DevOps Evangelists, DevOps Engineers, Technical Specialists, Technical Architects, Cloud Experts, and Beginners. TABLE OF CONTENTS 1. Overview of DevOps Practices 2. DevOps Assessment – Measure the “AS-IS” Maturity 3. DevOps Practices Implementation for Android App – Azure DevOps Pipelines 4. DevOps Practices Implementation for iOS App – Azure DevOps Pipelines 5. DevOps Practices Implementation for Native Apps using App Center 6. DevOps Practices Implementation for Java App – Azure DevOps Pipelines 7. DevOps Practices Implementation for Node.js Apps – Azure DevOps Pipelines 8. DevOps Practices Implementation for Angular App – Azure DevOps Pipelines 9. DevOps Practices Implementation for Python and, PHP – Azure DevOps Pipelines 10. DevOps Practices Implementation for Hybrid Mobile App (Ionic and Xamarin) – Azure DevOps Pipeline 11. Azure DevOps Best Practices 12. Measure Benefits of DevOps Practices Implementations

Use this collection of best practices and tips for assessing the health of a solution. This book provides detailed techniques and instructions to quickly diagnose aspects of your Azure cloud solutions. The initial chapters of this book introduce you to the many facets of Microsoft Azure, explain why and how building for the cloud differs from on-premise development, and outline the need for a comprehensive strategy to debugging and profiling in Azure. You learn the major types of blades (FaaS, SaaS, PaaS, IaaS), how different views can be created for different scenarios, and you will become familiar with the Favorites section, Cost Management & Billing blade, support, and Cloud Shell. You also will know how to leverage Application Insights for application performance management, in order to achieve a seamless cloud development experience. Application Insights, Log Analytics, and database storage topics are covered. The authors further guide you on identity security with Azure AD and continuous delivery with CI and CD covered in detail along with the capabilities of Azure DevOps. And you are exposed to external tooling and trouble shooting in a production environment. After reading this book, you will be able to apply

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methods to key Azure services, including App Service (Web Apps, Function Apps, and Logic Apps), Cloud Services, Azure Container Service, Azure Active Directory, Azure Storage, Azure SQL Database, Cosmos DB, Log Analytics, and many more. What You Will Learn Debug and manage the performance of your applications Leverage Application Insights for application performance management Extend and automate CI/CD with the help of various build tools, including Azure DevOps, TeamCity, and Cake bootstrapper Who This Book Is For Application developers, designers, and DevOps personnel who want to find a one-stop shop in best practices for managing their application's performance in the cloud and for debugging the issues accordingly

Build new Access cloud web apps and migrate desktop databases to the cloud This is your complete, practical guide to creating Microsoft Access web apps and migrating existing databases to the cloud. Access MVP Andrew Couch guides you through the entire web app life cycle, from design through deployment and upgrades. After introducing Microsoft Office 365 and the web app development environment, he reviews key issues associated with moving data into a web app or creating cloud apps with new data. Next, he drills down into app construction, from table design to integration. You'll learn how to extend Access with Microsoft Azure SQL, PowerPivot, Visual Studio 2013, SQL Server Reporting Services (SSRS), and Apps for Office, and master important new enhancements in Office 365 SP1. Learn best practices and techniques to: Capitalize on key Office 365 features in your Access web apps Design and integrate all the features of Access web apps Make your desktop databases compatible with web app table structures Implement and test business rules by using the Macro Programming Tools Understand how your app design translates to objects in the cloud-based Azure SQL Database Use Microsoft SQL Server Management Studio (SSMS) to connect with and manage web apps Improve reporting with PowerPivot, Visual Studio 2013, and SSRS Extend Access web apps with Apps for Office features Capitalize on Office 365 SP1 improvements in change deployment, intellectual property protection, and integration Get all code samples, including complete apps, at: <http://aka.ms/AccessApps/files> About This Book For experienced Access developers who want a deep understanding of web app design and implementation For new web app developers who want to develop Access web apps with Office 365

An essential resource for implementing and managing a cloudinfrastructure in Azure Serving as a critical resource for anyone responsible forstrategizing, architecting, implementing or managing a cloudinfrastructure, this book helps you understand what is hybrid ITand how it's applicable (and inevitable) in today's world ofemerging cloud. The team of authors focus on the Microsoft conceptof a private/public cloud, deploying a private cloud fabric,deploying services, and building a private cloud, as well asintegrating it with Microsoft's public cloud to create across-premises or public cloud. Looks at why hybrid IT is important to a business and whatbenefits a business can expect by adopting hybrid cloud Examines a cloud management platform and discusses why it isnecessary Walks you through the different kinds of solutions for ITproblems that may arise Places a focus on considerations for ensuring resiliency,availability, and scalability when designing hybrid solutions toprevent system failure and data loss Covers optimizing the performance of the hybrid cloud as wellas using tools that help you monitor and manage the performance ofthe hybrid cloud Windows Azure Hybrid Cloud helps you gain a betterunderstanding of the hybrid IT environments, why those cloudsshould be implemented, and how they impact business.

Explore and work with various Microsoft Azure services for real-time Data Analytics KEY FEATURES Understanding what Azure can do with your data Understanding the analytics services offered by Azure Understand how data can be transformed to generate more data Understand what is done after a Machine Learning model is built Go through some Data Analytics real-world use cases DESCRIPTION Data is the key input for Analytics. Building and implementing data platforms such as Data Lakes, modern Data Marts, and Analytics at scale require the right cloud platform that Azure provides through its services. The book starts by sharing how analytics has evolved and continues to evolve. Following the introduction, you will deep dive into ingestion technologies. You will learn about Data processing services in Azure. You will next learn about what is meant by a Data Lake and understand how Azure Data Lake Storage is used for analytical workloads. You will then learn about critical services that will provide actual Machine Learning capabilities in Azure. The book also talks about Azure Data Catalog for cataloging, Azure AD for Access Management, Web Apps and PowerApps for cloud web applications, Cognitive services for Speech, Vision, Search and Language, Azure VM for computing and Data Science VMs, Functions as serverless computing, Kubernetes and Containers as deployment options. Towards the end, the book discusses two use cases on Analytics. WHAT WILL YOU LEARN Explore and work with various Azure services Orchestrate and ingest data using Azure Data Factory Learn how to use Azure Stream Analytics Get to know more about Synapse Analytics and its features Learn how to use Azure Analysis Services and its functionalities WHO THIS BOOK IS FOR This book is for anyone who has basic to intermediate knowledge of cloud and analytics concepts and wants to use Microsoft Azure for Data Analytics. This book will also benefit Data Scientists who want to use Azure for Machine Learning. TABLE OF CONTENTS 1. Data and its power 2. Evolution of Analytics and its Types 3. Internet of Things 4. AI and ML 5. Why cloud 6. What are a data lake and a modern datamart 7. Introduction to Azure services 8. Types of data 9. Azure Data Factory 10. Stream Analytics 11. Azure Data Lake Store and Azure Storage 12. Cosmos DB 13. Synapse Analytics 14. Azure Databricks 15. Azure Analysis Services 16. Power BI 17. Azure Machine Learning 18. Sample Architectures and synergies - Real-Time and Batch 19. Azure Data Catalog 20. Azure Active Directory 21. Azure Webapps 22. Power apps 23. Time Series Insights 24. Azure Cognitive Services 25. Azure Logicapps 26. Azure VM 27. Azure Functions 28. Azure Containers 29. Azure Kubernetes Service 30. Use Case 1 31. Use Case 2

Beginning iOS Cloud and Database Development gets you started with building apps that use Apple's iCloud. You'll learn the techniques which will enable you to devise and create iOS apps that can interact with iCloud servers. From the basics up, you'll progressively learn how to configure your app for iCloud, upload and download files, implement revisions, add conflict resolution policies, and work with custom documents. There's more! You'll learn how to integrate iCloud with Core Data based applications. Besides technical advice, you'll find suggestions and best practices to design the interaction of iCloud-driven applications. According to many industry sources, analysts, and shows, Apple will rely more and more on iCloud or web apps in the cloud to store and stream data-intensive media and other kinds of apps. As the majority of apps use some sort of data—and that only will grow as apps become more complex with rich and streaming media—this book shows developers how to create apps for iCloud, Apple's new cloud computing storage and data service.

Use the new, enticing and highly portable event-driven runtime to simplify building resilient and scalable microservices for cloud and edge applications. Key Features: Build resilient, stateless, and stateful microservice applications that run on the cloud and edge Solve common distributed systems such as low latency and scaling using any language and framework Use real-time and proactive monitoring tools to support a reliable and highly available system Book Description: Over the last decade, there has been a huge shift from heavily coded monolithic applications to finer, self-contained microservices. Dapr is a new, open source project by Microsoft that provides proven techniques and best practices for developing modern applications. It offers platform-agnostic features for running your applications on public cloud, on-premises, and even on edge devices. This book will help you get to grips with microservice architectures and how to manage application complexities with Dapr in no time. You'll understand how Dapr offers ease of implementation while allowing you to work with multiple languages and platforms. You'll also understand how Dapr's runtime, services, building blocks, and software development kits (SDKs) help you to simplify the creation of resilient and portable microservices. Dapr provides an event-driven runtime that supports the essential features you need to build microservices, including service invocation, state management, and publish/subscribe messaging. You'll explore all of those in addition to various other advanced features with this practical guide to learning Dapr. By the end of this book, you'll be able to write microservices easily using your choice of language or framework by implementing industry best practices to solve problems related to distributed systems. What You Will Learn: Use Dapr to create services, invoking them directly and via pub/sub Discover best

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practices for working with microservice architectures Leverage the actor model to orchestrate data and behavior Use Azure Kubernetes Service to deploy a sample application Monitor Dapr applications using Zipkin, Prometheus, and Grafana Scale and load test Dapr applications on Kubernetes Who This Book Is For: This book is for developers looking to explore microservices architectures and implement them in Dapr applications using examples on Microsoft .NET Core. Whether you are new to microservices or have knowledge of this architectural approach and want to get hands-on experience in using Dapr, you'll find this book useful. Familiarity with .NET Core will help you to understand the C# samples and code snippets used in the book.

This updated and expanded second edition of the Building Cloud Apps with Microsoft Azure: Best Practices for DevOps, Data Storage provides a user-friendly introduction to the subject Taking a clear structural framework, it guides the reader through the subject's core elements. A flowing writing style combines with the use of illustrations and diagrams throughout the text to ensure the reader understands even the most complex of concepts. This succinct and enlightening overview is a required reading for all those interested in the subject . We hope you find this book useful in shaping your future career & Business.

Why cloud? The evolution of cloud technology has drastically reduced the time and effort to ship an idea to the market. You neither need costly physical servers nor expensive maintenance engineers. Moving to the cloud takes care of everything. The best part is you only pay for what you use. This is a boon for individual developers and start-ups. What is in this book? Ever wondered how apps like Uber, Whatsapp, Snapchat, Instagram, Feedly, etc. work? Uber provides you locations of available cars real-time. Whatsapp, Snapchat lets you send text, photos and videos instantly. Instagram enables you to share photos. Feedly gives you news of your interest. This book teaches you to build such cloud apps. Who is the book for? 1. You are a computer science student looking to learn industry skills. 2. You have basic coding skills and want to learn cloud development. 3. You are a software engineer with years of experience but don't understand the cloud. 4. You want to move your service to cloud. 5. You want to develop cloud apps. "Febin does a brilliant job of introducing cloud computing jargon in layman's terms while at the same time carefully guiding the reader in getting started in building cloud apps practically without spoon feeding him/her." Naresh Annangar, Sr. Security Researcher, Zscaler "Cloud computing is no more the future; It is the present. From playing a game on Facebook to reading an e-book on a Kindle, everything is driven by cloud computing around us. This book makes learning fun, interesting and you get to solve real world problems .If you are a wannapreneur, entrepreneur, a student or someone who wants to start off with cloud computing, then this book is for you. Beware this book gets you addicted to cloud computing " Vishnu Sosale, Android Developer, HackerEarth

Building Cloud Apps with Microsoft Azure Best Practices for DevOps, Data Storage, High Availability, and More Microsoft Press Use Visual Studio App Center with Xamarin Forms to set up a DevOps CI/CD pipeline, set up your mobile builds on either iOS or Android, set up Android and Apple certificates and provisioning profiles, distribute your app to your developers and testers, capture analytics and crashes from your users, communicate to your users with push notifications, and run UI tests on the Microsoft cloud. You will see how to automate and manage the life cycle of your apps through Microsoft's Cloud Service, with a focus on integrating App Center into your Xamarin Forms apps with clear, practical examples. As you follow along with the sample app, you will see how easy it is to configure your builds, to test the sample app on various iOS and Android devices on the App Center cloud, and to distribute your app to real devices. Whether you are a developer on a small team or a startup or an architect in a large organization curious about the benefits of Visual Studio App Center, after finishing this book, you will be confident in setting up App Center on your next mobile project. Come join me on this journey through Visual Studio App Center with Xamarin Forms. What You Will Learn Create a DevOps CI/CD pipeline for your mobile app on both iOS and Android devices Save money without buying multiple iOS and Android devices and instead run cloud UI tests Stay informed about build successes and failures by integrating App Center with Slack Set up groups and add team members to your groups on App Center Distribute your app to your team on either iOS or Android devices Capture important user events in your code and report to App Center Give a friendly user experience by handling crashes gracefully and reporting to App Center Keep and analyze your user's data on Azure by setting up automatic data export to Azure Communicate with your users using iOS and Android notification services from App Center Give your users a better experience by sending silent push notifications Include custom data in your push notifications Who This Book Is For Xamarin Forms mobile developers with previous experience using the Xamarin framework.

Unleash the power of serverless integration with Azure About This Book- Build and support highly available and scalable API Apps by learning powerful Azure-based cloud integration- Deploy and deliver applications that integrate seamlessly in the cloud and quickly adapt as per your integration needs- Deploy hybrid applications that work and integrate on the cloud (using Logic Apps and BizTalk Server) Who This Book Is For This book is for Microsoft Enterprise developers, DevOps, and IT professionals who would like to use Azure App Service and Microsoft Cloud Integration technologies to create cloud-based web and mobile apps. What You Will Learn- Explore new models of robust cloud integration in Microsoft Azure- Create your own connector and learn how to publish and manage it- Build reliable, scalable, and secure business workflows using Azure Logic Apps- Simplify SaaS connectivity with Azure using Logic Apps- Connect your on-premises system to Azure securely- Get to know more about Logic Apps and how to connect to on-premises "line-of-business" applications using Microsoft BizTalk Server In Detail Microsoft is focusing heavily on Enterprise connectivity so that developers can build scalable web and mobile apps and services in the cloud. In short, Enterprise connectivity from anywhere and to any device. These integration services are being offered through powerful Azure-based services. This book will teach you how to design and implement cloud integration using Microsoft Azure. It starts by showing you how to build, deploy, and secure the API app. Next, it introduces you to Logic Apps and helps you quickly start building your integration applications. We'll then go through the different connectors available for Logic Apps to build your automated business process workflow. Further on, you will see how to create a complex workflow in Logic Apps using Azure Function. You will then add a SaaS application to your existing cloud applications and create Queues and Topics in Service Bus on Azure using Azure Portal. Towards the end, we'll explore event hubs and IoT hubs, and you'll get to know more about how to tool and monitor the business workflow in Logic Apps. Using this book, you will be able to support your apps that connect to data anywhere-be it in the cloud or on-premises. Style and approach This practical hands-on tutorial shows you the full capability of App Service and other Azure-based integration services to build scalable and highly available web and mobile apps. It helps you successfully build and support your applications in the cloud or on-premises successfully. We'll debunk the popular myth that switching to cloud is risky-it's not!

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