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Distributed Cloud Apps with Azure Service Fabric

DESIGN AND DEVELOP A NEW CLASS OF DISTRIBUTED CLOUD APPS

Jesus Aguilar

Distributed Cloud Applications With Azure Service Fabric Design And Develop A New Class Of Distributed Cloud Applications

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Distributed Cloud Applications With Azure Service Fabric Design And Develop A New Class Of Distributed Cloud Applications:

Microservices, IoT and Azure Bob Familiar, 2015-11-07 This book provides practical guidance for adopting a high velocity continuous delivery process to create reliable scalable Software as a Service SaaS solutions that are designed and built using a microservice architecture deployed to the Azure cloud and managed through automation Microservices IoT and Azure offers software developers architects and operations engineers step by step directions for building SaaS applications applications that are available 24x7 work on any device scale elastically and are resilient to change through code script exercises and a working reference implementation The book provides a working definition of microservices and contrasts this approach with traditional monolithic Layered Architecture A fictitious homebiomedical startup is used to demonstrate microservice architecture and automation capabilities for cross cutting and business services as well as connected device scenarios for Internet of Things IoT Several Azure PaaS services are detailed including Storage SQL Database DocumentDb Redis Cache Cloud Services Web API s API Management IoT Hub IoT Suite Event Hub and Stream Analytics Finally the book looks to the future and examines Service Fabric to see how microservices are becoming the de facto approach to building reliable software in the cloud In this book you ll learn What microservices are and why are they re a compelling architecture pattern for SaaS applications How to design develop and deploy microservices using Visual Studio PowerShell and Azure Microservice patterns for cross cutting concerns and business capabilities Microservice patterns for Internet of Things and big data analytics solutions using IoT Hub Event Hub and Stream Analytics Techniques for automating microservice provisioning building and deployment What Service Fabric is and how it s the future direction for microservices on Microsoft Azure

Microservices with Azure Namit Tanasseri, Rahul Rai, 2017-06-28 Architect enterprise grade Microservice based solutions using Microsoft Azure Service Fabric About This Book Explore architectural patterns for building modern day Microservice based systems Learn about Microsoft Service Fabric as a platform to host distributed Microservices Discover multiple options for hosting Microservices on heterogeneous cross platform environments Learn to configure Azure Service Fabric clusters for enterprise grade service deployments Who This Book Is For The book is aimed at IT architects system administrators and DevOps engineers who have a basic knowledge of the Microsoft Azure platform and are working on or are curious about the concepts of Microservices and Microservice architecture What You Will Learn Understand the basics of Microservices and how Microsoft Azure fits into the equation Master Azure Service Fabric architecture and services Explore Azure Service Fabric application programming models Comprehensive study of various architecture patterns for building enterprise grade Microservices Manage and deploy Microservices on Azure Service Fabric An insight into the future of Microservices with containers and serverless computing In Detail Microsoft Azure is rapidly evolving and is widely used as a platform on which you can build Microservices that can be deployed on premise and on cloud heterogeneous environments

through Microsoft Azure Service Fabric This book will help you understand the concepts of Microservice application architecture and build highly maintainable and scalable enterprise grade applications using the various services in Microsoft Azure Service Fabric We will begin by understanding the intricacies of the Microservices architecture and its advantages over the monolithic architecture and Service Oriented Architecture SOA principles We will present various scenarios where Microservices should be used and walk you through the architectures of Microservice based applications Next you will take an in depth look at Microsoft Azure Service Fabric which is the best in class platform for building Microservices You will explore how to develop and deploy sample applications on Microsoft Azure Service Fabric to gain a thorough understanding of it Building Microservice based application is complicated Therefore we will take you through several design patterns that solve the various challenges associated with realizing the Microservices architecture in enterprise applications Each pattern will be clearly illustrated with examples that you can keep referring to when designing applications Finally you will be introduced to advanced topics such as Serverless computing and DevOps using Service Fabric to help you undertake your next venture with confidence

Style and approach This book introduces its readers to the concept of Microservices and Microsoft Azure Service Fabric as a distributed platform to host enterprise grade Microservices It then addresses common architectural challenges associated with the Microservice architecture using proven architectural patterns

[Programming Microsoft Azure Service Fabric](#) Haishi Bai, 2016-06-01 Build exceptionally scalable cloud applications for fast growing businesses Microsoft Azure Service Fabric makes it easier than ever before to build large scale distributed cloud applications You can quickly develop and update microservice based applications efficiently operate highly reliable hyperscale services and deploy the same application code on public hosted or private clouds This book introduces all key Azure Service Fabric concepts and walks you through implementing several real world applications You ll find advanced design patterns tuning tips and lessons learned from early adopters all from the perspective of developing and operating large projects in production Microsoft Azure evangelist Haishi Bai shows how to Implement background services and use stateless services to handle user requests Solve state management problems in distributed systems Package stage and deploy applications Upgrade applications in place with zero downtime Leverage Quality of Service QoS options throughout app design implementation and operation Manage Service Fabric clusters with Windows PowerShell and the Management Portal Configure Service Fabric Diagnostics and analyze collected data Test functionality and performance Design Internet of Things IoT solutions that capture and manage petabytes of data Handle demanding real time data streaming compute scenarios Understand multitenancy and single tenancy as logical architecture choices Build Service Fabric game engines to support large scale multiplayer online games Model complex systems with the Service Fabric Actors Pattern

About This Book For all cloud developers who want to create and operate large scale distributed cloud applications by using Microsoft Azure Service Fabric For all IT professionals who want to integrate Windows Server and Microsoft Azure in any environment including datacenters

Implementing Azure: Putting Modern DevOps to Use Florian Klafterbach, Oliver Michalski, Markus Klein, Mohamed Wali, Namit Tanasseri, Rahul Rai, 2019-01-31 Explore powerful Azure DevOps solutions to develop and deploy your software faster and more efficiently Key Features Build modern microservice based systems with Azure architecture Learn to deploy and manage cloud services and virtual machines Configure clusters with Azure Service Fabric for deployment Book Description This Learning Path helps you understand microservices architecture and leverage various services of Microsoft Azure Service Fabric to build deploy and maintain highly scalable enterprise grade applications You will learn to select an appropriate Azure backend structure for your solutions and work with its toolkit and managed apps to share your solutions with its service catalog As you progress through the Learning Path you will study Azure Cloud Services Azure managed Kubernetes and Azure Container Services deployment techniques To apply all that you ve understood you will build an end to end Azure system in scalable decoupled tiers for an industrial bakery with three business domains Toward the end of this Learning Path you will build another scalable architecture using Azure Service Bus topics to send orders between decoupled business domains with scalable worker roles processing these orders By the end of this Learning Path you will be comfortable in using development deployment and maintenance processes to build robust cloud solutions on Azure This Learning Path includes content from the following Packt products Learn Microsoft Azure by Mohamed Wali Implementing Azure Solutions Second Edition by Florian Klafterbach Oliver Michalski Markus Klein Microservices with Azure by Namit Tanasseri and Rahul Rai What you will learn Study various Azure Service Fabric application programming models Create and manage a Kubernetes cluster in Azure Kubernetes Service Use site to site VPN and ExpressRoute connections in your environment Design an Azure IoT app and learn to operate it in various scenarios Implement a hybrid Azure design using Azure Stack Build Azure SQL databases with Code First Migrations Integrate client applications with Web API and SignalR on Azure Implement the Azure Active Directory Azure AD across the entire system Who this book is for If you are an IT system architect network admin or a DevOps engineer who wants to implement Azure solutions for your organization this Learning Path is for you Basic knowledge of the Azure Cloud platform will be beneficial **Windows Azure Platform** Tejaswi Redkar, Tony Guidici, 2012-01-28 The Windows Azure Platform has rapidly established itself as one of the most sophisticated cloud computing platforms available With Microsoft working to continually update their product and keep it at the cutting edge the future looks bright if you have the skills to harness it In particular new features such as remote desktop access dynamic content caching and secure content delivery using SSL make the latest version of Azure a more powerful solution than ever before It s widely agreed that cloud computing has produced a paradigm shift in traditional architectural concepts by providing new ways to both store and process data The basic concepts of the cloud are now well understood throughout the industry What is much less well understood and the primary focus of this book is how the the Windows Azure technology can be applied in real world scenarios and made to work for you This book answers those questions demonstrating how all

the features of Windows Azure both old and new can be put to work By the time you re done reading you will be comfortable building high quality end to end Windows Azure services of your own The book like the Azure platform itself is divided into three key parts Windows Azure SQL Azure and Windows Azure AppFabric Each of these plays a unique role in the functioning of your cloud service It is the goal of this book to show you how to use these components both separately and together to build flawless cloud applications as well as hybrid architectures that fit in alongside your business existing systems Pro Windows Azure Platform Second Edition is a down to earth code centric book that shows precisely how the all the components of Windows Azure are employed and demonstrates the techniques and best practices you ll need to put them to work

Developing Cloud Native Applications in Azure using .NET Core Rekha Kodali,Dr. Gopala Krishna Behara,Sankara Narayanan Govindarajulu,2020-02-01 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 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 *Distributed Cloud Applications with Azure Service Fabric* Jesus Aguilar,2016 **Cloud Computing with the Windows Azure Platform** Roger Jennings,2010-12-29 Leverage the power of

the Azure Services Platform for cloud computing With the Azure Services Platform processing and storing data moves from individual corporate servers and Web sites to larger more reliable and more secure data centers Roger Jennings author of more than 30 books on Microsoft technologies shows you how to leverage the power of Azure and its related services for cloud computing The book begins with a look at the differences between cloud computing and application hosting and examines the various issues that NET developers and IT managers face in moving from on premise to cloud based applications including security privacy regulatory compliance backup and recovery asset cataloging and other common technical issues The author then drills down showing basic programming for individual Azure components including storage SQL Data Services and NET Services He then moves on to cover more advanced programming challenges Explains the benefits of using the Azure Services Platform for cloud computing Shows how to program with Windows Azure components including Azure Table and Blob storage NET Services and SQL Azure Addresses advanced programming challenges of creating useful projects that combine cloud storage with Web applications or services Companion Web site features complete finished applications that can be uploaded to jump start a Windows Azure project Roger Jennings clears away the clouds and gets you started using the Azure Services Platform

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 Features

- Develop scalable robust multi tier apps without worrying about infrastructure needs
- Deploy and manage cost effective and highly available serverless apps using Azure Functions
- Accelerate enterprise level application development by seamlessly integrating different cloud services with Azure Functions

Book 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 learn

- Create and deploy advanced Azure Functions
- Learn to extend the runtime of Azure Functions
- Orchestrate your logic through code or a visual workflow
- Add caching security routing and filtering to your APIs
- Use serverless technologies in real world scenarios
- Understand how to apply DevOps and automation to your working environment

Who 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 [A Developer's Guide to Building Resilient Cloud Applications with Azure](#)
Hamida Rebai Trabelsi, Lori Lalonde, 2023-02-24 Successfully modernize your apps on Azure using APIs event driven systems functions and Service Fabric and connect them to different relational and non relational databases Purchase of the print or Kindle book includes a free PDF eBook Key Features Understand Function as a Service and Azure Service Fabric for distributed applications Develop event based and message based solutions using Event Grid and Azure Event Hubs Explore continuous deployment for Docker with Azure DevOps and integrate Docker Hub with CI CD pipelines Book Description To deliver software at a faster rate and reduced costs companies with stable legacy systems and growing data volumes are trying to modernize their applications and accelerate innovation but this is no easy matter A Developer s Guide to Building Resilient Cloud Applications with Azure helps you overcome these application modernization challenges to build secure and reliable cloud based applications on Azure and connect them to databases with the help of easy to follow examples The book begins with a basic definition of serverless and event driven architecture and Database as a Service before moving on to an exploration of the different services in Azure namely Azure API Management using the gateway pattern event driven architecture Event Grid Azure Event Hubs Azure message queues FaaS using Azure Functions and the database oriented cloud Throughout the chapters you ll learn about creating importing and managing APIs and Service Fabric in Azure and discover how to ensure continuous integration and deployment in Azure to fully automate the software delivery process that is the build and release process By the end of this book you ll be able to build and deploy cloud oriented applications using APIs serverless Service Fabric Azure Functions and Event Grid technologies What you will learn Understand the architecture of Azure Functions and Azure Service Fabric Explore Platform as a Service options for deploying SQL Server in Azure Create and manage Azure Storage and Azure Cosmos DB resources Leverage big data storage in Azure services Select Azure services to deploy according to a specific scenario Set up CI CD pipelines to deploy container applications on Azure DevOps Get to grips with API gateway patterns and Azure API Management Who this book is for This book is for cloud developers software architects system administrators database administrators data engineers developers and computer science students who want to understand the role of the software architect or developer in the cloud world Professionals looking to enhance their cloud and cloud native programming concepts on Azure will also find this book useful A solid background in C ASP NET Core and any recent version of Visual Studio and basic knowledge of cloud computing Microsoft Azure and databases will be helpful when using this book [Implementing Azure Cloud Design Patterns](#) Oliver Michalski, Stefano Demiliani, 2018-01-29 A hands on guide to mastering Azure cloud design patterns and best practices Key Features Master architectural design patterns in Azure Get hands on with implementing design patterns Implement best practices for improving efficiency and security Book Description A well designed cloud infrastructure covers factors such as consistency maintenance simplified administration and development and reusability Hence it is important to choose the right architectural pattern as it has a

huge impact on the quality of cloud hosted services This book covers all Azure design patterns and functionalities to help you build your cloud infrastructure so it fits your system requirements This book initially covers design patterns that are focused on factors such as availability and data management monitoring Then the focus shifts to complex design patterns such as multitasking improving scalability valet keys and so on with practical use cases The book also supplies best practices to improve the security and performance of your cloud By the end of this book you will thoroughly be familiar with the different design and architectural patterns available with Windows Azure and capable of choosing the best pattern for your system What you will learn Learn to organize Azure access Design the core areas of the Azure Execution Model Work with storage and data management Create a health endpoint monitoring pattern Automate early detection of anomalies Identify and secure Azure features Who this book is for This book is targeted at cloud architects and cloud solution providers who are looking for an extensive guide to implementing different patterns for the deployment and maintenance of services in Microsoft Azure Prior experience with Azure is required as the book is completely focused on design patterns

The Azure Cloud Native Architecture Mapbook Stephane Eyskens,Ed Price,2021-02-17 Improve your Azure architecture practice and set out on a cloud and cloud native journey with this Azure cloud native architecture guide Key FeaturesDiscover the key drivers of successful Azure architectureImplement architecture maps as a compass to tackle any challengeUnderstand architecture maps in detail with the help of practical use casesBook Description Azure offers a wide range of services that enable a million ways to architect your solutions Complete with original maps and expert analysis this book will help you to explore Azure and choose the best solutions for your unique requirements Starting with the key aspects of architecture this book shows you how to map different architectural perspectives and covers a variety of use cases for each architectural discipline You ll get acquainted with the basic cloud vocabulary and learn which strategic aspects to consider for a successful cloud journey As you advance through the chapters you ll understand technical considerations from the perspective of a solutions architect You ll then explore infrastructure aspects such as network disaster recovery and high availability and leverage Infrastructure as Code IaC through ARM templates Bicep and Terraform The book also guides you through cloud design patterns distributed architecture and ecosystem solutions such as Dapr from an application architect s perspective You ll work with both traditional ETL and OLAP and modern data practices big data and advanced analytics in the cloud and finally get to grips with cloud native security By the end of this book you ll have picked up best practices and more rounded knowledge of the different architectural perspectives What you will learnGain overarching architectural knowledge of the Microsoft Azure cloud platformExplore the possibilities of building a full Azure solution by considering different architectural perspectivesImplement best practices for architecting and deploying Azure infrastructureReview different patterns for building a distributed application with ecosystem frameworks and solutionsGet to grips with cloud native concepts using containerized workloadsWork with AKS Azure Kubernetes Service and use it with service mesh technologies to design a

microservices hosting platform Who this book is for This book is for aspiring Azure Architects or anyone who specializes in security infrastructure data and application architecture If you are a developer or infrastructure engineer looking to enhance your Azure knowledge you ll find this book useful *Distributed .NET with Microsoft Orleans* Bhupesh Guptha Muthiyalu, Suneel Kumar Kunani, 2022-05-27 Adopt an effortless approach to avoid the hassles of complex concurrency and scaling patterns when building distributed applications in NET Key Features Explore the Orleans cross platform framework for building robust scalable and distributed applications Handle concurrency fault tolerance and resource management without complex programming patterns Work with essential components such as grains and silos to write scalable programs with ease Book Description Building distributed applications in this modern era can be a tedious task as customers expect high availability high performance and improved resilience With the help of this book you ll discover how you can harness the power of Microsoft Orleans to build impressive distributed applications Distributed NET with Microsoft Orleans will demonstrate how to leverage Orleans to build highly scalable distributed applications step by step in the least possible time and with minimum effort You ll explore some of the key concepts of Microsoft Orleans including the Orleans programming model runtime virtual actors hosting and deployment As you advance you ll become well versed with important Orleans assets such as grains silos timers and persistence Throughout the book you ll create a distributed application by adding key components to the application as you progress through each chapter and explore them in detail By the end of this book you ll have developed the confidence and skills required to build distributed applications using Microsoft Orleans and deploy them in Microsoft Azure What you will learn Get to grips with the different cloud architecture patterns that can be leveraged for building distributed applications Manage state and build a custom storage provider Explore Orleans key design patterns and understand when to reuse them Work with different classes that are created by code generators in the Orleans framework Write unit tests for Orleans grains and silos and create mocks for different parts of the system Overcome traditional challenges of latency and scalability while building distributed applications Who this book is for This book is for NET developers and software architects looking for a simplified guide for creating distributed applications without worrying about complex programming patterns Intermediate web developers who want to build highly scalable distributed applications will also find this book useful A basic understanding of NET Classic or NET Core with C and Azure will be helpful *Azure Service Fabric for Developers* Rodrigo Díaz Concha, 2020 Azure Service Fabric handles infrastructure needs deployment and scaling allowing developers to spend more time on features Service Fabric powers core Azure infrastructure and other Microsoft services and you can use this technology in your own software solutions to achieve high availability better reliability scalability and performance In this course learn about the platform s main benefits as well as how to build Service Fabric applications for the cloud or on premises Instructor Rodrigo D az Concha details the benefits of Service Fabric as a distributed microservices platform the Service Fabric application model as well as its overall development cycle He also

shows how to create Service Fabric clusters from the Azure Portal and CLI develop container based Service Fabric microservices solutions and more

MODERN CLOUD COMPUTING WITH C# Maxim Brooks, 2025-07-09 Feeling like your rock solid C and NET skills are being outpaced by the demand for cloud native expertise Wondering how to bridge the gap between your current knowledge and the vast complex world of Azure You re not alone Many professional NET developers are looking at job descriptions filled with terms like Kubernetes microservices and serverless and asking themselves Where do I even begin The cloud isn t just a new set of tools it s a new architectural mindset and it can feel overwhelming to connect your existing experience to this new paradigm This book is designed specifically for you It doesn t treat you like a beginner programmer it respects your deep knowledge of C and NET It acknowledges that the challenge isn t learning to code it s learning to build deploy and manage applications in a distributed cloud native way This guide is the bridge providing a clear practical and hands on roadmap to mastering Azure with the language you already know and trust Azure is the platform where NET applications are built to scale and the demand for developers who can master both is higher than ever This is the skill set that defines the modern senior developer But where do you start when you re already a professional This handbook breaks down the complexities of the Azure cloud into manageable real world chapters It moves beyond Hello World to focus on the architectural patterns security practices and automation that professional cloud engineers use every day It s about empowering you to leverage your existing skills to build the next generation of scalable resilient and secure services Inside you will discover how to Go from cloud curious to cloud confident making architectural decisions with a deep understanding of the trade offs Design build and deploy real world microservices using modern C and ASP NET Core Minimal APIs Master modern cloud security implementing passwordless connections to your databases and services Automate your entire workflow from code to cloud creating professional grade CI CD pipelines Gain the crucial skills that companies are looking for right now in senior cloud and backend developer roles Here s a glimpse of what you ll learn by doing Deploying applications with Azure App Service and event driven Azure Functions Containerizing your C services with Docker using production ready multi stage builds Orchestrating your containers at scale with Azure Kubernetes Service AKS Implementing secure decoupled communication between services with Azure Service Bus Managing relational and NoSQL data with Azure SQL and Cosmos DB using Entity Framework Core Securing your entire application from end to end with Microsoft Entra ID and Azure Key Vault Defining and deploying your entire cloud infrastructure as code using Bicep and GitHub Actions This book is more than just a guide it s a career accelerator It s time to prove that your years of C experience are your greatest asset in the cloud You have the foundation the drive and now with this book you ll have the cloud native skills to build your future Modern Cloud Computing with C is your definitive hands on guide to becoming a sought after cloud developer Ready to architect your future Click the Buy Now button and start building on Azure today

Programming Microsoft Azure Service Fabric, Second Edition Haishi Bai, 2018 Build operate and orchestrate scalable microservices applications in the

cloud This book combines a comprehensive guide to success with Microsoft Azure Service Fabric and a practical catalog of design patterns and best practices for microservices design implementation and operation Haishi Bai brings together all the information you ll need to deliver scalable and reliable distributed microservices applications on Service Fabric He thoroughly covers the crucial DevOps aspects of utilizing Service Fabric reviews its interactions with key cloud based services and introduces essential service integration mechanisms such as messaging systems and reactive systems Leading Microsoft Azure expert Haishi Bai shows how to Set up your Service Fabric development environment Program and deploy Service Fabric applications to a local or a cloud based cluster Compare and use stateful services stateless services and the actor model Design Service Fabric applications to maximize availability reliability and scalability Improve management efficiency via scripting Configure network security and other advanced cluster settings Collect diagnostic data and use Azure Operational Management Suite to interpret it Integrate microservices components developed in parallel Use containers to mobilize applications for failover replication scaling and load balancing Streamline containerization with Docker in Linux and Windows environments Orchestrate containers to schedule workloads and maintain services at desired states Implement proven design patterns for common cloud application workloads Balance throughput latency scalability and cost

Serverless Integration Design Patterns with Azure Abhishek Kumar,Srinivasa Mahendrakar,2019-02-13 A practical guide that helps you progress to using modern integration methods and leverage new cloud capability models Key FeaturesDesign critical hybrid integration solutions for your organizationGain in depth knowledge of how to build cloud native integration solutionsLeverage cognitive services to build smart cloud solutionsBook Description With more enterprises adapting cloud based and API based solutions application integration has become more relevant and significant than ever before Parallely Serverless Integration has gained popularity as it helps agile organizations to build integration solutions quickly without having to worry about infrastructure costs With Microsoft Azure s serverless offerings such as Logic Apps Azure Functions API Management Azure Event Grid and Service Bus organizations can build powerful secure and scalable integration solutions with ease The primary objective of this book is to help you to understand various serverless offerings included within Azure Integration Services taking you through the basics and industry practices and patterns This book starts by explaining the concepts of services such as Azure Functions Logic Apps and Service Bus with hands on examples and use cases After getting to grips with the basics you will be introduced to API Management and building B2B solutions using Logic Apps Enterprise Integration Pack This book will help readers to understand building hybrid integration solutions and touches upon Microsoft Cognitive Services and leveraging them in modern integration solutions Industry practices and patterns are brought to light at appropriate opportunities while explaining various concepts What you will learnLearn about the design principles of Microsoft Azure Serverless IntegrationGet insights into Azure Functions Logic Apps Azure Event Grid and Service BusSecure and manage your integration endpoints using Azure API ManagementBuild advanced B2B solutions

using Logic Apps Enterprise Integration PackMonitor integration solutions using tools available on the marketDiscover design patterns for hybrid integrationWho this book is for Serverless Integration Design Patterns with Azure is for you if you are a solution architect or integration professional aiming to build complex cloud solutions for your organization Developers looking to build next level hybrid or cloud solutions will also find this book useful Prior programming knowledge is necessary

Designing Networks and Services for the Cloud Huseni Saboowala, Muhammad Abid, Sudhir Modali, 2013 Designing Networks and Services for the Cloud Delivering business grade cloud applications and services A rapid easy to understand approach to delivering a secure resilient easy to manage SLA driven cloud experience Designing Networks and Services for the Cloud helps you understand the design and architecture of networks and network services that enable the delivery of business grade cloud services Drawing on more than 40 years of experience in network and cloud design validation and deployment the authors demonstrate how networks spanning from the Enterprise branch HQ and the service provider Next Generation Networks NGN to the data center fabric play a key role in addressing the primary inhibitors to cloud adoption security performance and management complexity The authors first review how virtualized infrastructure lays the foundation for the delivery of cloud services before delving into a primer on clouds including the management of cloud services Next they explore key factors that inhibit enterprises from moving their core workloads to the cloud and how advanced networks and network services can help businesses migrate to the cloud with confidence You ll find an in depth look at data center networks including virtualization aware networks virtual network services and service overlays The elements of security in this virtual fluid environment are discussed along with techniques for optimizing and accelerating the service delivery The book dives deeply into cloud aware service provider NGNs and their role in flexibly connecting distributed cloud resources ensuring the security of provider and tenant resources and enabling the optimal placement of cloud services The role of Enterprise networks as a critical control point for securely and cost effectively connecting to high performance cloud services is explored in detail before various parts of the network finally come together in the definition and delivery of end to end cloud SLAs At the end of the journey you preview the exciting future of clouds and network services along with the major upcoming trends If you are a technical professional or manager who must design implement or operate cloud or NGN solutions in enterprise or service provider environments this guide will be an indispensable resource Understand how virtualized data center infrastructure lays the groundwork for cloud based services Move from distributed virtualization to IT as a service via automated self service portals Classify cloud services and deployment models and understand the actors in the cloud ecosystem Review the elements requirements challenges and opportunities associated with network services in the cloud Optimize data centers via network segmentation virtualization aware networks virtual network services and service overlays Systematically secure cloud services Optimize service and application performance Plan and implement NGN infrastructure to support and accelerate cloud services Successfully connect enterprises to the cloud Define and deliver on

end to end cloud SLAs Preview the future of cloud and network services

Cloud Data Design, Orchestration, and Management Using Microsoft Azure Francesco Diaz,Roberto Freato,2018-06-28 Use Microsoft Azure to optimally design your data solutions and save time and money Scenarios are presented covering analysis design integration monitoring and derivatives This book is about data and provides you with a wide range of possibilities to implement a data solution on Azure from hybrid cloud to PaaS services Migration from existing solutions is presented in detail Alternatives and their scope are discussed Five of six chapters explore PaaS while one focuses on SQL Server features for cloud and relates to hybrid cloud and IaaS functionalities What You ll Learn Know the Azure services useful to implement a data solution Match the products services used to your specific needs Fit relational databases efficiently into data design Understand how to work with any type of data using Azure hybrid and public cloud features Use non relational alternatives to solve even complex requirements Orchestrate data movement using Azure services Approach analysis and manipulation according to the data life cycle Who This Book Is For Software developers and professionals with a good data design background and basic development skills who want to learn how to implement a solution using Azure data services

A Developer's Guide to .NET in Azure Anuraj Parameswaran,Tamir Al Balkhi,2023-10-20 Develop cloud native applications using serverless technologies Azure services and NET with the help of this reference guide Key Features Create cloud native NET applications using cutting edge technologies Design develop and deploy scalable manageable and resilient apps with various Azure services Explore serverless architecture and optimize application scalability through efficient design Purchase of the print or Kindle book includes a free PDF eBook Book DescriptionA Developer s Guide to NET in Azure helps you embark on a transformative journey through Microsoft Azure that is tailored to NET developers This book is a curated compendium that ll enable you to master the creation of resilient scalable and highly available applications The book is divided into four parts with Part 1 demystifying Azure for you and emphasizing the portal s utility and seamless integration The chapters in this section help you configure your workspace for optimal Azure synergy You ll then move on to Part 2 where you ll explore serverless computing microservices containerization Dapr and Azure Kubernetes Service for scalability and build pragmatic cost effective applications using Azure Functions and Container apps Part 3 delves into data and storage showing you how to utilize Azure Blob Storage for unstructured data Azure SQL Database for structured data and Azure Cosmos DB for document oriented data The final part teaches you about messaging and security utilizing Azure App Configuration Event Hubs Service Bus Key Vault and Azure AD B2C for robust secure applications By the end of this book you ll have mastered Azure s responsive infrastructure for exceptional applications What you will learn Discover how to create serverless apps and services Design microservices with Azure Kubernetes service Get to grips with different Azure databases and storage services Find out how to use secret and configuration management Familiarize yourself with event driven architecture Understand how to leverage Azure Service Bus and Azure Event Hubs Find out how to protect APIs and apps using Azure B2C Who this book is forThis

book is for NET developers and architects who are eager to master the art of creating and deploying robust applications using NET and Azure A foundational understanding of NET and Azure will enable you to enhance your skills with this resourceful guide Developers aspiring to explore the realms of microservices and serverless applications within the NET and Azure landscapes will find this book invaluable

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