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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 Learn what it takes to build large scale, mission critical applications -hardened applications- on the Azure cloud platform. This 208 page book covers 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. While the techniques are implemented in .NET and optimized for Azure, the principles here will also be valuable for users of other cloud-based development platforms. Applications come in a variety of forms, from simple apps that can be built and deployed in hours to mega-scale apps that need significantly higher engineering rigor and robust organizations to deliver them. How do you build such massively scalable applications to keep pace with traffic demands while always being 'online' with five 9's availability? The authors take you step by step through the process of evaluating and building applications with the appropriate hardness attributes. For example, it is easy to say that an application should be available "all the time", but it is very important to understand what each level of 9 for availability means and the resulting implications on engineering and resources. The book explains the details required for developers and IT Pros to get it right in Azure. "Microsoft Azure provides various services to enable Platform as a Service-based cloud development, allowing you to deliver both simple cloud-based applications and sophisticated and heavy-duty cloud-based enterprise services. This video tutorial will provide you with the necessary know-how to leverage Azure services to build your own PaaS cloud. You'll start by exploring Azure App Services, and learn to work with supported application types based on different parameters such as languages and functions. You'll learn to configure, publish, secure, and analyze your application APIs with Azure API management. Going further, you will learn to leverage Database as a Service in Azure, and work with different options for database management and also different types of databases such as MySQL and PostgreSQL. You'll even learn to develop NoSQL databases with the help of Azure Table Storage. Next, you will delve into Data Processing as a Service, and learn how to create custom searches for your application, enable messaging between applications and services, and work with data using Azure Data Factory and Azure Data Catalog."--Resource description page. If your team is investigating ways to design applications for the cloud, this concise book introduces 11 architecture patterns that can help you take advantage of cloud-platform services. You'll learn how each of these platform-agnostic patterns work, when they might be useful in the cloud, and what impact they'll have on your application architecture. You'll also see an example of each pattern applied to an application built with Windows Azure. The patterns are organized into four major topics, such as scalability and handling failure, and primer chapters provide background on each topic. With the information in this book, you'll be able to make informed decisions for designing effective cloud-native applications that maximize the value of cloud services, while also paying attention to user experience and operational efficiency. Learn about architectural patterns for: Scalability. Discover the advantages of horizontal scaling. Patterns covered include Horizontally Scaling Compute, Queue-Centric Workflow, and Auto-Scaling. Big data. Learn how to handle large amounts of data across a distributed system. Eventual consistency is explained, along with the MapReduce and Database Sharding patterns. Handling failure. Understand how multitenant cloud services and commodity hardware influence your applications. Patterns covered include Busy Signal and Node Failure. Distributed users. Learn how to overcome delays due to network latency when building applications for a geographically distributed user base. Patterns covered include Colocation, Valet Key, CDN, and Multi-Site Deployment. Learn how to implement multi-layered security controls to protect against rapidly evolving threats to Azure environments Key Features Develop practical skills to protect your organization from constantly evolving security threats Become well-versed with real-world Azure security strategies and AZ-500 exam objectives Effectively manage security governance, policies, and operations in Azure Book Description Security is a key part of any well-architected design. With the help of this book, you'll gain both the knowledge and the practical skills to significantly reduce the attack surface of your Azure workloads and protect your organization from constantly evolving threats to public cloud environments like Azure. This book is a comprehensive security guide for those looking to take the Azure Security Engineer certification exam as well as for those interested in securing their Azure infrastructure. Beyond preparing you for the Azure Security (AZ-500) exam, this book will guide you in securing your Azure environments and workloads using native Azure security capabilities. Complete with hands-on tutorials, projects, and self-assessment questions, this easy-to-follow guide builds a solid foundation of Azure security. You'll not only learn about security technologies in Azure but also be able to configure and manage them. Moreover, you'll develop a clear understanding of how to identify different attack vectors and mitigate risks. By the end of this book, you'll be well-versed with implementing multi-layered security to protect identities, networks, hosts, containers, databases, and storage in Azure. What you will learn Manage users, groups, service principals, and roles effectively in Azure AD Explore Azure AD identity security and governance capabilities Understand how platform perimeter protection secures Azure workloads Implement network security best practices for IaaS and PaaS Discover various options to protect against DDoS attacks Secure hosts and containers against evolving security threats Configure platform governance with cloud-native tools Monitor security operations with Azure Security Center and Azure Sentinel Who this book is for If you are a newly qualified or experienced security professional, cloud administrator, architect, or developer who wants to understand how to secure your Azure environment and workloads, this book is for you. The book is a handy resource for anyone preparing to take the Azure Security Engineer (AZ-500) certification exam. Foundational knowledge of the Azure cloud platform will be helpful but not necessary to understand the concepts covered in this book. Enhance your Azure administration and Azure DevOps skills and get up and running with networking, security, automation, and effective cost management Key Features Explore a variety of administration patterns used for different cloud architectures Discover best practices for administering various IT systems hosted in Azure Administer, automate, and manage your Azure cloud environment effectively Book Description Microsoft Azure is one of the upcoming cloud platforms that provide cost-effective solutions and services to help businesses overcome complex infrastructure-related challenges. This book will help you scale your cloud administration skills with Microsoft Azure. Learn Azure Administration starts with an introduction to the management of Azure subscriptions, and then takes you through Azure resource management. Next, you'll configure and manage virtual networks and find out how to integrate them with a set of Azure services. You'll then handle the identity and security for users with the help of Azure Active Directory, and manage access from a single place using policies and defined roles. As you advance, you'll get to grips with receipts to manage a virtual machine. The next set of chapters will teach you how to solve advanced problems such as DDoS protection, load balancing, and networking for containers. You'll also learn how to set up file servers, along with managing and storing backups. Later, you'll review monitoring solutions and backup plans for a host of services. The last set of chapters will help you to integrate different services with Azure Event Grid, Azure Automation, and Azure Logic Apps, and teach you how to manage Azure DevOps. By the end of this Azure book, you'll be proficient enough to easily administer your Azure-based cloud environment. What you will learn Explore different Azure services and understand the correlation between them Secure and integrate different Azure components Work with a variety of identity and access management (IAM) models Find out how to set up monitoring and logging solutions Build a complete skill set of Azure administration activities with Azure DevOps Discover efficient scaling patterns for small and large workloads Who this book is for This book is for cloud administrators, system administrators, and IT professionals who want to scale up their skillset and enter the world of cloud computing. IT professionals and engineers who are already familiar with the basics of the Azure services and are looking for a step-by-step guide to solving the most common Azure problems will also find this book useful. Basic understanding of cloud concepts such as IaaS, PaaS, virtualization, networking, and common Azure services is required. Microsoft Azure, commonly referred to as Azure is a cloud computing service created by Microsoft for building, testing, deploying, and managing applications and services through Microsoft-managed data centers. It provides software as a service (SaaS), platform as a service (PaaS) and infrastructure as a service (IaaS) and supports many different programming languages, tools, and frameworks, including both Microsoft-specific and third-party software and systems. The major benefit of a remote desktop connection is being able to connect to your data from anywhere in the world. Your data is in one place that is easy to see and you no longer have to have software installed on your own computer. Azure is one of the best virtual computers and networks providers for remote desktop (RDP) connections. When you create Azure account, you pay as you go. You purchase Azure services with pay-as-you-go pricing. You pay only for what you use each month, with no upfront commitment, and cancel anytime. You must add your credit/debit card for billing to use pay as you go subscription. But I was looking for totally free subscription where I don't need to add my credit card for billing. I found there are two possible options for that: 1) A sandbox gives you access to Azure resources. Your Azure subscription will not be charged. The sandbox may only be used to complete training on Microsoft Learn. Creating the Azure Virtual machines using sandbox which is learning subscription, you can connect to the VM via RDP port but you cannot access to Internet through the Internet Explorer. 2) Alternatively Microsoft Azure provides a free \$100 credit for students accounts registered through university emails (free student subscription for around one year). There is internet access in the VM machine under this type of subscription. Azure documentations is too deep and it is hard to be understand creating and managing virtual computers and networks in Azure for remote access connection by any beginner. So, I tried to outline in this report the most important topics as reference guide to assist the user to create and manage virtual computers and networks in Azure for remote access connection in simplified and clear way. This report will include the following parts: Getting free Azure subscription through Sandbox Microsoft Learn subscription (No credit card needed) Free 12 months, then pay-as-you-go Azure account subscription (Credit card needed) Student subscription (No debit/credit cards needed) How to get university email Virtual networks and virtual machines in Azure Quick start for PowerShell in Azure Cloud Shell Quick start with Azure PowerShell Installing Azure CLI on Windows and creating virtual machine Creating a Windows virtual machine in Azure Quick start to create a Linux virtual machine in the Azure portal Tutorial to create a NAT Gateway using the Azure portal and test the NAT service What is Azure Network Watcher? Network Watcher Agent Troubleshoot connections with Azure Network Watcher using the Azure portal Troubleshoot Azure VM connectivity problems Quick start to configure Load Balancer Quick start to configure VPN Gateway using Azure portal Tutorial to connect to a virtual machine using Azure Bastion Exercise to create Window Virtual Machine Exercise to create Ubuntu Virtual Machine Get certified as an Azure architect by acing the 70-535 Architecting Microsoft Solutions (70-535) exam using this comprehensive guide with full coverage of the exam objectives Key Features Learn to successfully design and architect powerful solutions on the Azure Cloud platform Enhance your skills with mock tests and practice questions A detailed certification guide that will help you ace the 70-535 exam with confidence Book Description Architecting Microsoft Azure Solutions: Exam Guide 70-535 will get Azure architects and developers up-to-date with the latest updates on Azure from an architecture and design perspective. The book includes all the topics that are still relevant from the previous 70-534 exam, and is updated with latest topics covered, including Artificial Intelligence, IoT, and architecture styles. This exam guide is divided into six parts, where the first part will give you a good understanding of how to design a compute infrastructure. It also dives into designing networking and data implementations. You will learn about designing solutions for Platform Service and operations. Next, you will be able to secure your resources and data, as well as design a mechanism for governance and policies. You will also understand the objective of designing solutions for Platform Services, by covering Artificial Intelligence, IoT, media services, and messaging solution concepts. Finally, you will cover the designing for operations objective. This objective covers application and platform monitoring, as well as designing alerting strategies and operations automation strategies. By the end of the book, you'll have met all of the exam objectives, and will have all the information you need to ace the 70-535 exam. You will also have become an expert in designing solutions on Microsoft Azure. What you will learn Use Azure Virtual Machines to design effective VM deployments Implement architecture styles, like serverless computing and microservices Secure your data using different security features and design effective security strategies Design Azure storage solutions using various storage features Create identity management solutions for your applications and resources Architect state-of-the-art solutions using Artificial Intelligence, IoT, and Azure Media Services Use different automation solutions that are incorporated in the Azure platform Who this book is for This book is for architects and experienced developers, who are gearing up for the 70-535 exam. Technical architects interested in learning more about designing Cloud solutions will also find this book useful. If you are an architect, this book will help you make the correct decisions about which Azure building blocks to use. If you are a developer, this book will help you understand how to use them appropriately, and if you are a .NET developer, this book is a pure delight. Microsoft Azure is a cloud computing platform that provides a wide variety of services that we can use without purchasing and arranging our hardware. It enables the fast development of solutions and provides the resources to complete tasks that may not be achievable in an on-premises environment. Azure Services like compute, storage, network, and application services allow us to put our effort into building great solutions without worrying about the assembly of physical infrastructure. This book covers the fundamentals of Azure, which will provide us the idea about all the Azure key services that we are most likely required to know to start developing solutions. After completing this book, we can crack job interviews or able to get different Microsoft Azure certifications. Microsoft Azure is a cloud service that can be used to for building, testing, and managing applications and services through a network of servers managed by Microsoft in various locations all over the world. Get the most out of Azure, simply by following the easy instructions fully explained in this audiobook. This step-by-step guide gives you everything you need to know to do more with Azure than you ever thought possible! Here is a preview of what you will learn in this guide: Infrastructure as a Service (IaaS) Platform as a Service (PaaS) Software as a Service (SaaS) Public, Private, and Hybrid Clouds Cloud Computing and Security Issues The Importance of Geopolitics in Cloud Computing Overview of Available Azure Services Development with Azure Mobile Services in Azure Azure Storage Services Data-Management Functions in Azure Messaging Functions on Microsoft Azure Azure's Content Delivery Network Developer Tools in Azure Application Management with Azure Machine Learning Capabilities in Azure Azure and the Internet of Things (IoT) Definition of Azure DevOps Advantages of Azure DevOps Privacy and Microsoft Azure Creating a Windows Virtual Machine Creating a Linux Virtual Machine And so much more! With this guide, you will learn everything you need to know about Microsoft Azure! Build a modern data warehouse on Microsoft's Azure Platform that is flexible, adaptable, and fast—fast to snap together, reconfigure, and fast at delivering results to drive good decision making in your business. Gone are the days when data warehousing projects were lumbering dinosaur-style projects that took forever, drained budgets, and produced business intelligence (BI) just in time to tell you what to do 10 years ago. This book will show you how to assemble a data warehouse solution like a jigsaw puzzle by connecting specific Azure technologies that address your own needs and bring value to your business. You will see how to implement a range of architectural patterns using batches, events, and streams for both data lake technology and SQL databases. You will discover how to manage metadata and automation to accelerate the development of your warehouse while establishing resilience at every level. And you will know how to feed downstream analytic solutions such as Power BI and Azure Analysis Services to empower data-driven decision making that drives your business forward toward a pattern of success. This book teaches you how to employ the Azure platform in a strategy to dramatically improve implementation speed and flexibility of data warehousing systems. You will know how to make correct decisions in design, architecture, and infrastructure such as choosing which type of SQL engine (from at least three options) best meets the needs of your organization. You also will learn about ETL/ELT structure and the vast number of accelerators and patterns that can be used to aid implementation and ensure resilience. Data warehouse developers and architects will find this book a tremendous resource for moving their skills into the future through cloud-based implementations. What You Will Learn Choose the appropriate Azure SQL engine for implementing a given data warehouse Develop smart, reusable ETL/ELT processes that are resilient and easily maintained Automate mundane development tasks through tools such as PowerShell Ensure consistency of data by creating and enforcing data contracts Explore streaming and event-driven architectures for data ingestion Create advanced staging layers using Azure Data Lake Gen 2 to feed your data warehouse Who This Book Is For Data warehouse or ETL/ELT developers who wish to implement a data warehouse project in the Azure cloud, and developers currently working in on-premise environments who want to move to the cloud, and for developers with Azure experience looking to tighten up their implementation and consolidate their knowledge This book is written for Windows professionals who are familiar with PowerShell and want to learn to build, operate, and administer their Windows workloads in the Microsoft cloud. Pro PowerShell for Microsoft Azure is packed with practical examples and scripts, with

easy-to-follow explanations for a wide range of day-to-day needs and essential administration tasks. Author Sherif Talaat begins by explaining the fundamental concepts behind the Microsoft Azure platform and how to get started configuring it through PowerShell. Readers will find out how to deploy, configure and manage the various components of the Azure platform, from storage and virtual networks to Azure Web Sites, HDInsight clusters and the Azure SQL Database. Workload automation, scheduling and resource management are covered in depth to help build efficiency in everyday tasks, and administrators will gain full control over Azure identity and access rights using Azure Active Directory and Rights Management Services. Put your PowerShell skills to good use and ensure that your applications and data are available anywhere at any time, with Pro PowerShell for Microsoft Azure. What You'll Learn Create and manage virtual networks and VPNs using PowerShell. Configure and maintain Azure Storage accounts, blobs, and containers. Provision and manage a redundant Windows or Linux server. Deploy and configure your sites in the cloud using Microsoft Azure Web Sites. Provision Apache Hadoop clusters in the cloud using Azure HDInsight. Deploy, configure and manage a Microsoft Azure SQL Database. Protect and secure identities and resources with Azure Active Directory and Azure Rights Management Services. Who This Book Is For This is book is for the intermediate to advanced Windows professional who is ready to make the leap to the cloud. Did you know that cloud computing is being used by just about every person or company on the internet today in some shape or form? Most people use the cloud and never even think about it. I've been writing, teaching and speaking about cloud computing since the time it was simply called "the cloud". In this book, you're going to learn how the cloud works, how it can help you, your team or organization, and the different types of cloud computing. In chapters 4 and 5, you're going to get a hands-on experience from my examples and learn real-world applications of cloud computing. In chapter 5 I'll show you: How to create and use a Microsoft Azure subscription to get \$200 credit and 12 months of 25 free services. How to create a Windows virtual machine (VM). How to create a Linux virtual machine. When you read my book, you will understand different phrases and acronyms, such as: Software as a service Infrastructure as a service Platform as a service Virtualization Multitenancy and so much more! We'll also talk about: Public clouds Private clouds Hybrid clouds Multi-clouds Finally, we will look at the risks of cloud computing, cover the current marketplace and see a lot of the different companies offering cloud services. You will discover how to recognize and understand what it is these companies actually provide. The Microsoft Azure cloud is an ideal platform for data-intensive applications. Designed for productivity, Azure provides pre-built services that make collection, storage, and analysis much easier to implement and manage. Azure Storage, Streaming, and Batch Analytics teaches you how to design a reliable, performant, and cost-effective data infrastructure in Azure by progressively building a complete working analytics system. Summary The Microsoft Azure cloud is an ideal platform for data-intensive applications. Designed for productivity, Azure provides pre-built services that make collection, storage, and analysis much easier to implement and manage. Azure Storage, Streaming, and Batch Analytics teaches you how to design a reliable, performant, and cost-effective data infrastructure in Azure by progressively building a complete working analytics system. Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications. About the technology Microsoft Azure provides dozens of services that simplify storing and processing data. These services are secure, reliable, scalable, and cost efficient. About the book Azure Storage, Streaming, and Batch Analytics shows you how to build state-of-the-art data solutions with tools from the Microsoft Azure platform. Read along to construct a cloud-native data warehouse, adding features like real-time data processing. Based on the Lambda architecture for big data, the design uses scalable services such as Event Hubs, Stream Analytics, and SQL databases. Along the way, you'll cover most of the topics needed to earn an Azure data engineering certification. What's inside Configuring Azure services for speed and cost Constructing data pipelines with Data Factory Choosing the right data storage methods About the reader For readers familiar with database management. Examples in C# and PowerShell. About the author Richard Nuckolls is a senior developer building big data analytics and reporting systems in Azure. Table of Contents 1 What is data engineering? 2 Building an analytics system in Azure 3 General storage with Azure Storage accounts 4 Azure Data Lake Storage 5 Message handling with Event Hubs 6 Real-time queries with Azure Stream Analytics 7 Batch queries with Azure Data Lake Analytics 8 U-SQL for complex analytics 9 Integrating with Azure Data Lake Analytics 10 Service integration with Azure Data Factory 11 Managed SQL with Azure SQL Database 12 Integrating Data Factory with SQL Database 13 Where to go next 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. Written for IT and business professionals, this book provides the technical and business insight needed to plan, deploy and manage the services provided by the Microsoft Azure cloud. Find out how to integrate the infrastructure-as-a-service (IaaS) and platform-as-a-service (PaaS) models with your existing business infrastructure while maximizing availability, ensuring continuity and safety of your data, and keeping costs to a minimum. The book starts with an introduction to Microsoft Azure and how it differs from Office 365—Microsoft's 'other' cloud. You'll also get a useful overview of the services available. Part II then takes you through setting up your Azure account, and gets you up-and-running on some of the core Azure services, including creating web sites and virtual machines, and choosing between fully cloud-based and hybrid storage solutions, depending on your needs. Part III now takes an in-depth look at how to integrate Azure with your existing infrastructure. The authors, Anthony Puca, Mike Manning, Brent Rush, Marshall Copeland and Julian Soh, bring their depth of experience in cloud technology and customer support to guide you through the whole process, through each layer of your infrastructure from networking to operations. High availability and disaster recovery are the topics on everyone's minds when considering a move to the cloud, and this book provides key insights and step-by-step guidance to help you set up and manage your resources correctly to optimize for these scenarios. You'll also get expert advice on migrating your existing VMs to Azure using InMage, mail-in and the best 3rd party tools available, helping you ensure continuity of service with minimum disruption to the business. In the book's final chapters, you'll find cutting edge examples of cloud technology in action, from machine learning to business intelligence, for a taste of some exciting ways your business could benefit from your new Microsoft Azure deployment. Develop a solid understanding of cloud computing, Linux virtual machine, container virtualization, and other fundamental concepts to create and manage your Linux workload in Azure Key FeaturesDeploy and manage virtual machines in the Azure environmentExplore open source tools to integrate automation and orchestrationImplement Linux features to create and manage containersBook Description Thanks to its flexibility in delivering scalable cloud solutions, Microsoft Azure is a suitable platform for managing all your workloads. You can use it to implement Linux virtual machines and containers, and to create applications in open source languages with open APIs. This Linux administration book first takes you through the fundamentals of Linux and Azure to prepare you for the more advanced Linux features in later chapters. With the help of real-world examples, you'll learn how to deploy virtual machines (VMs) in Azure, expand their capabilities, and manage them efficiently. You will manage containers and use them to run applications reliably, and in the concluding chapter, you'll explore troubleshooting techniques using a variety of open source tools. By the end of this book, you'll be proficient in administering Linux on Azure and leveraging the tools required for deployment. What you will learnGrasp the fundamentals of virtualization and cloud computingUnderstand file hierarchy and mount new filesystemsMaintain the life cycle of your application in Azure Kubernetes ServiceManage resources with the Azure CLI and PowerShellManage users, groups, and filesystem permissionsUse Azure Resource Manager to redeploy virtual machinesImplement configuration management to configure a VM correctlyBuild a container using DockerWho this book is for If you are a Linux administrator or a Microsoft professional looking to deploy and manage your workload in Azure, this book is for you. Although not necessary, knowledge of Linux and Azure will assist with understanding core concepts. Step by step exam guide to learn Microsoft Azure Administration with hands-on labs KEY FEATURES ? Includes subject matter expertise in implementing, managing, and monitoring your organization's Microsoft Azure environment. ? Covers all exam topics, including virtual networks, storage, computing, identity, security, and governance. ? Includes exam tips, practice exam questions, and in-depth explanations to get certified on the first attempt. DESCRIPTION In cloud computing, getting certified as an Azure Administrator is one of the most highly sought-after sets of abilities. Author Lalit Rawat brings the lab's experience to this updated and extended second edition to help you launch your test preparation with the practical practice of how a certified Azure administrator handles enterprise cloud architecture. This book will help you understand the fundamental and more advanced aspects of Azure administration. In-depth coverage is provided for various topics, including how to sync your existing on-premises active directory with the Azure directory and how to use the user management features of Azure Active Directory. The book also provides an exam-based scenario explanation for the Azure Virtual Machine, the Azure Storage Account, and the Azure Networking service. The book also includes topics such as Azure Monitor, Azure networking, on-premises to Azure connectivity, site-to-site connections, express route, and disaster and backup recovery solutions. In addition, you will enjoy chapters specifically devoted to Exam Preparation Guidelines and Mock Exams, which will assist you in the exam assessments that test your knowledge. WHAT YOU WILL LEARN ? Train to work as an Azure administrator using the Microsoft Azure lab environment. ? Excellent familiarity with Microsoft Azure and all other essentials of cloud administration. ? Set up a corporate cloud system based on Azure. ? Build and expand your organization's virtual infrastructure. ? Implement web apps and containers. ? Implement storage solutions and manage the network traffic. ? Set up, size, monitor, and change your resources to meet the needs of your business. WHO THIS BOOK IS FOR This book is intended for Azure Administrators, Cloud Engineers, Windows/Linux Administrators, Technical Specialists, and Consultants who wish to get certified in Azure and expand their expertise to expert-level skills on the platform. Knowing Powershell and CLI should be enough to read through this book. TABLE OF CONTENTS 1. Managing Azure AD Objects 2. Implementing and Managing Hybrid Identities 3. Managing Role Assignments Through the RBAC Policy 4. Managing Azure Subscription and Resource Management 5. Managing and Configuring of Azure Storage Accounts 6. Manage Data in Azure Storage 7. The Azure File Share 8. Creating and Configuring of Azure VMs 9. Automating Deployment of VMs 10. Creating and Configuring Container 11. Creating and Configuring Web Apps 12. Virtual Network Configuration and Integration On-Prem to Azure 13. Configuring Load Balancing 14. Securing Access to Virtual Networks 15. Monitoring and Troubleshooting of Virtual Networking 16. Analyzing Resource Utilization and Consumption 17. Implementation of Azure Backup and Disaster Recovery 18. Exam Preparation Guidelines and Assessment Based on Live Questions This book is the second volume in a planned series about Windows Azure technology platform. Volume 1, Moving Applications to the Cloud on the Windows Azure Platform, provides an introduction to Windows Azure, discusses the cost model and application life cycle management for cloud-based applications, and describes how to migrate an existing ASP.NET application to the cloud. This book demonstrates how you can create from scratch a multi-tenant, Software as a Service (SaaS) application to run in the cloud by using the latest versions of the Windows Azure tools and the latest features of the Windows Azure platform. The book is intended for any architect, developer, or information technology (IT) professional who designs, builds, or operates applications and services that run on or interact with the cloud. Although applications do not need to be based on the Microsoft Windows® operating system to work in Windows Azure, this book is written for people who work with Windows-based systems. You should be familiar with the Microsoft .NET Framework, Microsoft Visual Studio® development system, ASP.NET MVC, and Microsoft Visual C#® development tool. Develop cloud applications based on the most popular Azure services, including hosting web applications, running containers, storing data using both relational and non-relational databases, and much more Key FeaturesTake a modern approach to Azure Cloud development and managementGet a detailed introduction to services such as web hosting, databases, and serverless platformsGet the hang of cloud services with this practical, developer-centric guide for Azure developersBook Description Microsoft Azure is currently one of the fastest growing public cloud service providers thanks to its sophisticated set of services for building fault-tolerant and scalable cloud-based applications. This second edition of Azure for Developers will take you on a journey through the various PaaS services available in Azure, including Azure App Service, Azure Functions, and Azure SQL Databases, showing you how to build a complete and reliable system with ease. Throughout the book, you'll discover ways to enhance your skills when building cloud-based solutions leveraging different SQL/NoSQL databases, serverless and messaging components, containerized solutions, and even search engines such as Azure Cognitive Search. That's not all!! The book also covers more advanced scenarios such as scalability best practices, serving static content with Azure CDN, and distributing loads with Azure Traffic Manager, Azure Application Gateway, and Azure Front Door. By the end of this Azure book, you'll be able to build modern applications on the Azure cloud using the most popular and promising technologies to make your solutions reliable, stable, and efficient. What you will learnIdentify the Azure services that can help you get the results you needImplement PaaS components – Azure App Service, Azure SQL, Traffic Manager, CDN, Notification Hubs, and Azure Cognitive SearchWork with serverless componentsIntegrate applications with storagePut together messaging components (Event Hubs, Service Bus, and Azure Queue Storage)Use Application Insights to create complete monitoring solutionsSecure solutions using Azure RBAC and manage identitiesDevelop fast and scalable cloud applicationsWho this book is for This book is for developers and IT professionals who want to learn Microsoft Azure by developing applications based on various cloud services. Prior knowledge of software development and the basics of software architecture and Azure services give you an advantage. This book provides a detailed walk-through of Microsoft's Azure Data Studio, which represents a paradigm shift from Microsoft, encompassing the company's recent commitment to open-source, multi-platform, and highly extensible software. This book demonstrates that Azure Data Studio (ADS) is a complete 'software platform', enabling database professionals to: - Dramatically improve, simplify, and accelerate daily tasks- Take advantage of Jupyter Notebooks, and share via GitHub- Easily Support both Microsoft and non-Microsoft platforms- Seamlessly work with data in the Cloud, and On-Premise- Collaborate more easily with internal as well as external clients- Add Extensions to customize and add functionality to ADSThis book also reveals that ADS goes well beyond just the SQL query language. In fact, ADS provides an amazing language fusion of SQL, PowerShell, Python and more for a deeply integrated development environment. Whether you are a SQL Developer, Data Engineer, DBA, or other Data Professional this book will give you head-start with this new and exciting developer platform from Microsoft. 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. Learn Azure's cloud capabilities with the help of this introductory guide to employing Azure for your cloud infrastructure needs. Key FeaturesGet a clear overview of Azure's capabilities and benefits, and learn how to get started efficientlyDevelop the ability to opt for cloud architecture and design that best fits your organizationLeverage Azure opportunities for cost savings and optimizationBook Description Microsoft Azure is a powerful cloud computing platform that offers a multitude of services and capabilities for organizations of any size moving to a cloud strategy. Azure Strategy and Implementation Guide Third Edition encapsulates the entire spectrum of measures involved in Azure deployment that includes understanding Azure fundamentals, choosing a suitable cloud architecture, building on design principles, becoming familiar with Azure DevOps, and learning best practices for optimization and management. The book begins by introducing you to the Azure cloud platform and demonstrating the substantial scope of digital transformation and innovation that can be achieved by leveraging Azure's capabilities. The guide further acquaints you with practical insights on application modernization, Azure Infrastructure as a Service (IaaS) deployment, infrastructure management, key application architectures, best practices of Azure DevOps, and Azure automation. By the end of this book, you will be proficient in driving Azure operations right from the planning and cloud migration stage to cost management and troubleshooting. What you will learnDeploy and run Azure infrastructure servicesCarry out detailed planning for migrating applications to the cloud with AzureMove underlying code structure into a serverless modelUse a gateway to isolate your services and applicationsDefine roles and responsibilities in DevOpsImplement release & deployment coordination and automationWho this book is for Azure Strategy and Implementation Guide Third Edition is designed to benefit Azure architects, cloud solution architects, Azure developers, Azure administrators, and anyone who wants to develop an expertise in operating and administering the Azure cloud. A basic familiarity with operating systems and databases will help you grasp the concepts covered in this book. The Azure Services Platform is a cloud-computing technology from Microsoft. It is composed of four core components—Windows Azure, .NET Services, SQL Services, and Live Services—each with 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 services. At its heart, Windows Azure Platform is a down-to-earth, code-centric book. This book aims to show you precisely how the components are employed and best practices you need to know to use them to best effect. That said, author Tejaswi Redkar regularly takes time out to provide a thorough overview of the architectural concepts that underpin Windows Azure. Without this understanding, you will find it hard to use the platform to its full potential. By the time you've read this book, you will be comfortable building high-quality end-to-end Azure services of your own. Learn Azure in a Month of Lunches, Second Edition, is a tutorial on writing, deploying, and running applications in Azure. In it, you'll work through 21 short lessons that give you real-world experience. Each lesson includes a hands-on lab so you can try out and lock in your new skills. Summary You can be incredibly productive with Azure without mastering every feature, function, and service. Learn Azure in a Month of Lunches, Second Edition gets you up and running quickly, teaching you the most important concepts and tasks in 21 practical bite-sized lessons. As you explore the examples, exercises, and labs, you'll pick up valuable skills immediately and take your first steps to Azure mastery! This fully revised new edition covers core changes to the Azure UI, new Azure features, Azure containers, and the upgraded Azure Kubernetes Service. Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications. About the technology Microsoft Azure is vast and powerful, offering virtual servers, application templates, and prebuilt services for everything from data storage to AI. To navigate it all, you need a trustworthy guide. In this book, Microsoft engineer and Azure trainer Iain Foulds focuses on core skills for creating cloud-based applications. About the book Learn Azure in a Month of Lunches, Second Edition, is a tutorial on writing, deploying, and running applications in Azure. In it, you'll work through 21 short lessons that give you real-world experience. Each lesson includes a hands-on lab so you can try out and lock in your new skills. What's inside Understanding Azure beyond point-and-click Securing applications and data Automating your environment Azure services for machine learning, containers, and more About the reader This book is for readers who can write and deploy simple web or client/server applications. About the author Iain Foulds is an engineer and senior content developer with Microsoft. Table of Contents PART 1 - AZURE CORE SERVICES 1 Before you begin 2 Creating a virtual machine 3 Azure Web Apps 4 Introduction to Azure Storage 5 Azure Networking basics PART 2 - HIGH AVAILABILITY AND SCALE 6 Azure Resource Manager 7 High availability and redundancy 8 Load-balancing applications 9 Applications that scale 10 Global databases with Cosmos DB 11 Managing network traffic and routing 12 Monitoring and troubleshooting PART 3 - SECURE BY DEFAULT 13 Backup, recovery, and replication 14 Data encryption 15 Securing information with Azure Key Vault 16 Azure Security Center and updates PART 4 - THE COOL STUFF 17 Machine learning and artificial intelligence 18 Azure Automation 19 Azure containers 20 Azure and the Internet of Things 21 Serverless computing The Authoritative Guide to Building Service-Oriented Solutions with Microsoft .NET Technologies and the Windows Azure Cloud Computing Platform In SOA with .NET and Windows Azure, top Microsoft technology experts team up with Thomas Erl to explore service-oriented computing with Microsoft's latest .NET service technologies and Windows Azure innovations. The authors provide comprehensive documentation of on-premise and cloud-based modern service technology advancements within the Microsoft platform and further show how these technologies have increased the potential for applying and realizing service-orientation practices and goals. Specifically, the book delves into Microsoft enterprise technologies, such as: Windows Communication Foundation (WCF) Windows Azure Windows Workflow Foundation (WF) Windows Azure AppFabric BizTalk Server Windows Presentation Foundation (WPF) ...as well as industry service mediums, including WS-* and REST, and many related service industry standards and technologies. The book steps through common SOA design patterns and service-orientation principles, along with numerous code-level examples that further detail various technology architectures and implementations. Topic Areas This book covers the following primary topics: Microsoft Service Technologies Microsoft Enterprise Technologies On-Premise & Cloud-Based Service Topics Industry Service Technologies & Mediums Service-Oriented Technology Architectural Models Service-Oriented Design Paradigm Service-Oriented Design Principles SOA Design Patterns About the Web Sites This book series is further supported by a series of resources sites, including: www.soabooks.com www.soaspecs.com www.soamag.com www.serviceorientation.com www.soapatterns.org www.soapinciples.com www.whatissoa.com Microsoft Azure, commonly referred to as Azureis a cloud computing service created by Microsoft for building, testing, deploying, and managing applications and services through Microsoft-managed data centers. It provides software as a service (SaaS), platform as a service (PaaS) and infrastructure as a service (IaaS) and supports many different programming languages, tools, and frameworks, including both Microsoft-specific and third-party software and systems. The major benefit of a remote desktop connection is being able to connect to your data from anywhere in the world. Your data is in one place that is easy to see and you no longer have to have software installed on your own computer.Azure is one of the best virtual computers and networks providers for remote desktop (RDP) connections. When you create Azure account, you pay as you go. You purchase Azure services with pay-as-you-go pricing. You pay only for what you use each month, with no upfront commitment, and cancel anytime. You must add your credit/debit card for billing to use pay as you go subscription.But I was looking for totally free subscription where I dont need to add my credit card for billing. I found there are two possible options for that:1) A sandbox gives you access to Azure resources. Your Azure subscription will not be charged. The sandbox may only be used to complete training on Microsoft Learn. Creating the Azure Virtual machines using sandbox which is learning subscription, you can connect to the VM via RDP port but you cannot access to Internet through the Internet Explorer. 2) Alternatively Microsoft Azure provides a free \$100 credit for students accounts registered through university emails (free student subscription for around one year). There is internet access in the VM machine under this type of subscription.Azure documentations is too deep and it is hard to be understand creating and managing virtual computers and networks in Azure for remote access connection by any beginner. So, I tried to outline in this report the most important topics as reference guide to assist the user to create and manage virtual computers and networks in Azure for remote access connection in simplified and clear way. This report will include the following parts:1.Getting free Azure subscription through Sandbox Microsoft Learn subscription (No credit card needed)2.Free 12 months, then pay-as-you-go Azure account subscription (Credit card needed) 3.Student subscription (No debit/credit cards needed)4.How to get university email5.Virtual networks and virtual machines in Azure6.Quick start for PowerShell in Azure Cloud Shell7.Quick start with Azure PowerShell8.Installing Azure CLI on Windows and creating virtual machine9.Creating a Windows virtual machine in Azure10.Quick start to create a Linux virtual machine in the Azure portal11.Tutorial to create a NAT Gateway using the Azure portal and test the NAT service12.What is Azure Network Watcher?13.Network Watcher Agent14.Troubleshoot connections with Azure Network Watcher using the Azure portal15.Troubleshoot Azure VM connectivity problems16.Quick start to configure Load Balancer17.Quick start to configure VPN Gateway using Azure portal18.Tutorial to connect to a virtual machine using Azure Bastion19.Exercise to create Window Virtual Machine 20.Exercise to create Ubuntu Virtual Machine A step-by-step guide to understand Agile, Scrum, DevOps and Cloud Computing using Azure DevOps and Microsoft Azure Cloud DESCRIPTION Agile development and implementation of Scrum methodologies require quick delivery of applications. Manual activities to manage application lifecycle management are no longer sufficient. This book will cover the DevOps practices implementation that helps to achieve speed for faster time to market using

transformation in culture using people, processes, and tools. This book discusses the definition of Cloud computing and the benefits of Cloud Service Models. You will understand how Agile, DevOps practices implementation and Cloud computing can be utilized effectively to transform the culture of an organization. The main objective of this book is to demonstrate continuous practices of the DevOps culture using Microsoft Azure DevOps and Microsoft Azure Cloud. You will learn how to track features, user stories, backlogs, dashboards, and burndown charts. You will also learn how to create and manage repositories. This book gives an overview of Microsoft Azure Cloud and Azure App Services and a brief description of virtual machines and App Services. It summarizes Build and Release definitions available in Microsoft Azure DevOps and explains how to configure Pipelines and create end-to-end automation pipelines. KEY FEATURES ? Learn how to do Continuous Planning in Azure DevOps ? Learn the basics of Continuous Code Inspection and importance of Code Quality ? Learn how continuous integration can make a difference in the application life cycle ? Learn how to create and configure Cloud resources using Platform as a Service Model ? Learn how to perform continuous integration using the YAML script and continuous delivery pipeline using a release pipeline ? Learn how to configure monitoring for Platform as a Service resources WHAT WILL YOU LEARN By the end of the book, you will get an overview of Agile, Scrum, DevOps and Continuous Practices such as Continuous Integration, Continuous Delivery, Cloud Computing, and Continuous Code Inspection. You will learn how all these practices can be utilized in real-life scenarios with the sample applications. This book will provide detailed insights into Microsoft Azure Cloud, especially Platform as a Service Model. A step-by-step implementation guide of continuous practices of DevOps will help beginners to get started with. WHO THIS BOOK IS FOR DevOps Evangelists, DevOps Engineers, Technical Specialists, Technical Architects, and Cloud Experts Basic knowledge of application development and deployment, Cloud computing, and DevOps practices Beginners Table of Contents 1. An overview of Agile 2. Need for DevOps 3. An overview of Cloud Computing 4. Azure Boards 5. Azure Repos 6. Microsoft Azure Cloud 7. Microsoft Azure Cloud: IaaS and PaaS 8. Azure Pipelines: Continuous Integration and Continuous Delivery 9. Azure Pipelines Implementation Build a data platform to the industry-leading standards set by Microsoft's own infrastructure. Summary In Data Engineering on Azure you will learn how to: Pick the right Azure services for different data scenarios Manage data inventory Implement production quality data modeling, analytics, and machine learning workloads Handle data governance Using DevOps to increase reliability Ingesting, storing, and distributing data Apply best practices for compliance and access control Data Engineering on Azure reveals the data management patterns and techniques that support Microsoft's own massive data infrastructure. Author Vlad Riscutia, a data engineer at Microsoft, teaches you to bring an engineering rigor to your data platform and ensure that your data prototypes function just as well under the pressures of production. You'll implement common data modeling patterns, stand up cloud-native data platforms on Azure, and get to grips with DevOps for both analytics and machine learning. Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications. About the technology Build secure, stable data platforms that can scale to loads of any size. When a project moves from the lab into production, you need confidence that it can stand up to real-world challenges. This book teaches you to design and implement cloud-based data infrastructure that you can easily monitor, scale, and modify. About the book In Data Engineering on Azure you'll learn the skills you need to build and maintain big data platforms in massive enterprises. This invaluable guide includes clear, practical guidance for setting up infrastructure, orchestration, workloads, and governance. As you go, you'll set up efficient machine learning pipelines, and then master time-saving automation and DevOps solutions. The Azure-based examples are easy to reproduce on other cloud platforms. What's inside Data inventory and data governance Assure data quality, compliance, and distribution Build automated pipelines to increase reliability Ingest, store, and distribute data Production-quality data modeling, analytics, and machine learning About the reader For data engineers familiar with cloud computing and DevOps. About the author Vlad Riscutia is a software architect at Microsoft. Table of Contents 1 Introduction PART 1 INFRASTRUCTURE 2 Storage 3 DevOps 4 Orchestration PART 2 WORKLOADS 5 Processing 6 Analytics 7 Machine learning PART 3 GOVERNANCE 8 Metadata 9 Data quality 10 Compliance 11 Distributing data Azure in Action is a fast-paced tutorial intended for architects and developers looking to develop cloud-based applications on the Windows Azure Platform. Written by two of Microsoft's leading Azure evangelists, it's designed both for readers new to cloud concepts and for those familiar with cloud development but new to Azure. Starting with core concepts, the book explores designing and scaling front-end and back-end services that run in the cloud, and more advanced scenarios in Windows Azure. Later chapters introduce the rest of the Azure Services Platform with a particular focus on SQL Azure Database. 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. Azure in Action is a fast-paced tutorial intended for architects and developers looking to develop cloud-based applications on the Windows Azure Platform. Written by two of Microsoft's leading Azure evangelists, it's designed both for readers new to cloud concepts and for those familiar with cloud development but new to Azure. Starting with core concepts, the book explores designing and scaling front-end and back-end services that run in the cloud, and more advanced scenarios in Windows Azure. Later chapters introduce the rest of the Azure Services Platform with a particular focus on SQL Azure Database. 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. A step-by-step guide to understand Agile, Scrum, DevOps and Cloud Computing using Azure DevOps and Microsoft Azure Cloud Key featuresa- Learn how to do Continuous Planning in Azure DevOpsa- Learn the basics of Continuous Code Inspection and importance of Code Qualitya- Learn how continuous integration can make a difference in the application life cyclea- Learn how to create and configure Cloud resources using Platform as a Service Modela- Learn how to perform continuous integration using the YAML script and continuous delivery pipeline using a release pipelinea- Learn how to configure monitoring for Platform as a Service resources DescriptionAgile development and implementation of Scrum methodologies require quick delivery of applications. Manual activities to manage application lifecycle management are no longer sufficient. This book will cover the DevOps practices implementation that helps to achieve speed for faster time to market using transformation in culture using people, processes, and tools. This book discusses the definition of Cloud computing and the benefits of Cloud Service Models. You will understand how Agile, DevOps practices implementation and Cloud computing can be utilized effectively to transform the culture of an organization.The main objective of this book is to demonstrate continuous practices of the DevOps culture using Microsoft Azure DevOps and Microsoft Azure Cloud. You will learn how to track features, user stories, backlogs, dashboards, and burndown charts. You will also learn how to create and manage repositories. This book gives an overview of Microsoft Azure Cloud and Azure App Services and a brief description of virtual machines and App Services. It summarizes Build and Release definitions available in Microsoft Azure DevOps and explains how to configure Pipelines and create end-to-end automation pipelines.What will you learnBy the end of the book, you will get an overview of Agile, Scrum, DevOps and Continuous Practices such as Continuous Integration, Continuous Delivery, Cloud Computing, and Continuous Code Inspection. You will learn how all these practices can be utilized in real-life scenarios with the sample applications. This book will provide detailed insights into Microsoft Azure Cloud, especially Platform as a Service Model. A step-by-step implementation guide of continuous practices of DevOps will help beginners to get started with.Who this book is for DevOps Evangelists, DevOps Engineers, Technical Specialists, Technical Architects, and Cloud Experts Basic knowledge of application development and deployment, Cloud computing, and DevOps practices Beginners Table of contents 1. Overview of Agile and Scrum Framework2. DevOps Culture and Continuous Practices3. Overview of Cloud Computing and Containers4. Azure Boards5. Azure Repos6. Microsoft Azure Cloud7. Microsoft Azure Cloud-IaaS and PaaS8. Azure Pipelines - Continuous Integration 9. Azure Pipelines - Continuous Delivery10. Multi-stage Pipelines in Azure DevOpsAbout the authorMitesh Soni is an avid learner with 10 years of experience in the IT industry. He is an SCJP, SCWCD, and VCP. He is IBM Urbancode- and IBM Bluemix-certified and is also a Certified Jenkins Engineer. He loves DevOps and cloud computing, and he also has an interest in programming in Java. He finds design patterns fascinating and believes that a picture is worth a thousand words. He occasionally contributes to clean-clouds and tutorials world websites. He loves to play with his kids, fiddle with his camera, and take photographs at Indroda Park. This book is your hands-on guide to infrastructure provisioning and configuration management in the cloud using Chef's open source, cross-platform toolset. With over 10,000 customers joining the Microsoft Azure cloud platform each week and steadily increasing usage, the need for automation approaches has never been greater. This book provides both practical examples and a much needed strategic overview of how these two technologies can be combined. Using Chef with Microsoft Azure takes you through the process of writing 'recipes' in Chef to describe your infrastructure as code, and simplify your configuration management processes. You'll also meet the Chef tools that can be used to provision complete environments within Microsoft Azure. There are now a wide variety of tools and approaches that can be taken to provision resources such as virtual machines within Microsoft Azure. This book demonstrates them, discusses the benefits and weaknesses of each approach, and shows how a continuous provisioning pipeline can be established as part of a reliable, repeatable, and robust provisioning process. Each chapter has practical exercises that highlight the capabilities of both Chef and Microsoft Azure from an automation perspective and can be executed on Windows, Mac, or Linux platforms. In this book, you'll learn: The purpose and principles behind automated provisioning Microsoft Azure concepts and management options How to deploy Chef Azure Virtual Machine Extensions using PowerShell, Azure command-line tools, and Chef Provisioning Chef Provisioning techniques, including provisioning PaaS resources such as KeyVault How to integrate quality tooling into the Chef development lifecycle, including Test Kitchen and InSpec with Azure compute resources How to set up a pipeline for continuous provisioning with Chef and Azure Who This Book Is For This book is for infrastructure platform and operations engineers and DevOps specialists/practitioners working with infrastructure and platform provisioning on Microsoft's public cloud, Azure. An understanding of programming in any language would be beneficial, but not necessary as the examples are designed to be easily readable by anyone with general IT experience. While it is expected most users picking up this book will be on the Windows platform, a good proportion of compute workload on the Azure platform is Linux based. As a result the book includes examples that are relevant to both Windows and Linux platforms. Provides information on cloud computing and offers instructions on programming with Azure components.-- 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 Beginners 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 Certified Azure Solutions Architect, Microsoft Azure For Beginners 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 Beginners offers a fast and easy first step into the Microsoft public cloud. The must-have reference for Azure newcomers As Microsoft's Azure platform takes a larger stake in the cloud computing world, more tech pros need to know the ins-and-outs of this fast-growing platform. Microsoft Azure For Dummies is the essential guide for users who are new to the platform. Take your first steps into the world of Azure as you learn all about the core services—straight from a Microsoft expert. This book covers the Azure essentials you need to know, including building a virtual network on Azure, launching and scaling applications, migrating existing services, and keeping everything secure. In classic Dummies style, you'll learn the fundamentals of Azure's core services and—when you're ready—how to move into more advanced services. Discover the basics of cloud computing with Microsoft Azure and learn what services you can access with Azure Build your cloud network with Azure and migrate an existing network to the platform Scale applications seamlessly and make sure your security is air-tight Updated to include expanded information on data resources, machine learning, artificial intelligence, and collaboration, Microsoft Azure For Dummies, 2nd Edition answers the call for an entry-level, comprehensive guide that provides a simple-to-understand primer on core Azure services. It's an invaluable resource for IT managers and others arriving at the platform for the first time. Gain in-depth knowledge of Azure fundamentals that will make it easy for you to achieve AZ-900 certification Key Features Get fundamental knowledge of cloud concepts and the Microsoft Azure platform Explore practical exercises to gain experience of working with the Microsoft Azure platform in the real world Prepare to achieve AZ-900 certification on the first go with the help of simplified examples covered in the book Book Description This is the digital and cloud era, and Microsoft Azure is one of the top cloud computing platforms. It's now more important than ever to understand how the cloud functions and the different services that can be leveraged across the cloud. This book will give you a solid understanding of cloud concepts and Microsoft Azure, starting by taking you through cloud concepts in depth, then focusing on the core Azure architectural components, solutions, and management tools. Next, you will understand security concepts, defense-in-depth, and key security services such as Network Security Groups and Azure Firewall, as well as security operations tooling such as Azure Security Center and Azure Sentinel. As you progress, you will understand how identity, governance, privacy, and compliance are managed in Azure. Finally, you will get to grips with cost management, service-level agreements, and service life cycles. Throughout, the book features a number of hands-on exercises to support the concepts, services, and solutions discussed. This provides you with a glimpse of real-world scenarios, before finally concluding with practice questions for AZ-900 exam preparation. By the end of this Azure book, you will have a thorough understanding of cloud concepts and Azure fundamentals, enabling you to pass the AZ-900 certification exam easily. What you will learn Explore cloud computing with Azure cloud Gain an understanding of the core Azure architectural components Acquire knowledge of core services and management tools on Azure Get up and running with security concepts, security operations, and protection from threats Focus on identity, governance, privacy, and compliance features Understand Azure cost management, SLAs, and service life cycles Who this book is for This Azure fundamentals book is both for those with technical backgrounds and non-technical backgrounds who want to learn and explore the field of cloud computing, especially with Azure. This book will also help anyone who wants to develop a good foundation for achieving advanced Azure certifications. There is no prerequisite for this book except a willingness to learn and explore cloud concepts and Microsoft Azure. Zen of Cloud: Learning Cloud Computing by Examples on Microsoft Azure provides comprehensive coverage of the essential theories behind cloud computing and the Windows Azure cloud platform. Sharing the author's insights gained while working at Microsoft's headquarters, it presents nearly 70 end-to-end examples with step-by-step guidance on implementing typical cloud-based scenarios. The book is organized into four sections: cloud service fundamentals, cloud solutions, devices and cloud, and system integration and project management. Each chapter contains detailed exercises that provide readers with the opportunity to develop valuable hands-on skills in cloud service development. Explains how to prepare for Microsoft Azure development and how to use Microsoft Azure Management Portal Provides best practices for designing cloud-based applications Includes online access to updated examples and answers to the exercises Beginners can use this book as a guide in their journey through cloud computing. Experienced cloud developers will benefit from the specific examples and detailed guidance on implementing typical cloud-based scenarios. The examples cover a range of application types and technologies with varying levels of difficulties. Supplying comprehensive coverage of the Windows Azure cloud platform, the book provides a practical understanding and powerful tips that readers can immediately apply to their own work—making it ideal for cloud system developers, architects, and IT professionals. Organized into easily digestible sessions, it is also ideal for use in instructional settings.

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