

Azure Billing

Bill Stonehem

The Road to Azure Cost Governance Paola E. Annis, Giuliano Caglio, Marco Barra Caracciolo, 2022-02-18 Get to grips with Microsoft Azure cost management and gain complete, reliable, and sustainable control of your cloud spend Key Features Explore resource rightsizing and cleanup methods and their implementation Learn key resource usage optimization concepts Understand app optimization and plan for optimized and sustainable cloud native applications Book Description Cloud teams and ICT cost controllers working with Azure will be able to put their knowledge to work with this practical guide, introducing a process model for structured cost governance. The Road to Azure Cost Governance is a must-read if you find yourself facing the harsh reality of monthly cloud costs gradually getting out of control. Starting with how resources are created and managed, everything you need to know in order to track, display, optimize, rightsize, and clean up cloud resources will be tackled with a workflow approach that will leave the choice of operation to you (be it the Azure CLI, automation, logic apps, or even custom code). Using real-world datasets, you'll learn everything from basic cost management to modeling your cloud spend across your technical resources in a sustainable way. The book will also show you how to create a recursive optimization process that will give you full control of spending and savings, while helping you reserve budget for future cloud projects and innovation. By the end of this Azure book, you'll have a clear understanding and control of your cloud spend along with knowledge of a number of cost-saving techniques used by companies around the world, application optimization patterns, and the carbon impact of your cloud infrastructure. What you will learn Use

Azure reporting, monitoring, and configurations to model your cloud resources and make costs clearerDiscover resource-saving techniques and put them into practiceEstablish a continuous clean-up and rightsizing processExplore and implement automation to drive recurrent savingsFind out how to use Azure Reservations in the best possible wayGet started with building cloud native, cost-optimized applicationsGet to grips with implementing cost- and carbon-aware applications on AzureWho this book is for If you're someone who deals with Azure cloud costs and has a technical background, this book will help you understand and control your cloud spending. This book is for decision-makers, cloud managers, cloud architects, cost controllers, and software solution professionals working with Microsoft cloud services in Azure and looking to build optimized solutions for their enterprise operations.

FinOps Handbook for Microsoft Azure Maulik Soni,2023-05-12 Drive financial visibility, set cost optimization goals, and reap savings for your organization with proven practices and invaluable insights Purchase of the print or Kindle book includes a free PDF eBook Key Features Build a FinOps team and foster cross-organizational collaboration to optimize costs Gain a deep insight into resource usage and rates to unlock the secrets of cost optimization Apply your FinOps expertise to run a successful practice, reinvesting savings into new feature development Book Description To gain a competitive edge in today's unpredictable economic climate, you'll need to unravel the mystery of saving costs on Microsoft Azure Cloud. This book helps you do just that with proven strategies for building, running, and sustaining repeated cost optimization initiatives across your organization. You'll learn how to collaborate with finance, procurement, product, and

engineering teams to optimize your cloud spend and achieve cost savings that can make a significant impact on your bottom line. The book begins by showing you how to effectively monitor and manage your cloud usage, identify cost-saving opportunities, and implement changes that'll reduce your overall spend. Whether you're a small start-up or a large enterprise, this book will equip you with the knowledge and skills needed to achieve cost savings and maintain a lean cloud infrastructure. As you advance, you'll find out how to benchmark your current cloud spend and establish a budget for cloud usage. Throughout the chapters, you'll learn how to negotiate with your cloud provider to optimize your rate, allocate cost for the container, and gain a solid understanding of metric-driven cost optimization. By the end of this FinOps book, you'll have become proficient in Azure Cloud financial management with the help of real-world examples, use cases, and scenarios.

What you will learn

- Get the grip of all the activities of FinOps phases for Microsoft Azure
- Understand architectural patterns for interruptible workload on Spot VMs
- Optimize savings with Reservations, Savings Plans, Spot VMs
- Analyze waste with customizable pre-built workbooks
- Write an effective financial business case for savings
- Apply your learning to three real-world case studies
- Forecast cloud spend, set budgets, and track accurately

Who this book is for

This book is for cloud governance experts, finance managers, procurement specialists, product developers, and engineering teams looking to get clear and actionable guidance needed to implement all the phases of the FinOps life cycle in the Microsoft Azure context. This book is ideal for anyone with a basic understanding of financial terms, analytics tools, and the Azure cloud.

Microsoft Certified Azure Fundamentals Study Guide James Boyce, 2021-04-13 Quickly

preps technical and non-technical readers to pass the Microsoft AZ-900 certification exam. Microsoft Certified Azure Fundamentals Study Guide: Exam AZ-900 is your complete resource for preparing for the AZ-900 exam. Microsoft Azure is a major component of Microsoft's cloud computing model, enabling organizations to host their applications and related services in Microsoft's data centers, eliminating the need for those organizations to purchase and manage their own computer hardware. In addition, serverless computing enables organizations to quickly and easily deploy data services without the need for servers, operating systems, and supporting systems. This book is targeted at anyone who is seeking AZ-900 certification or simply wants to understand the fundamentals of Microsoft Azure. Whatever your role in business or education, you will benefit from an understanding of Microsoft Azure fundamentals. Readers will also get one year of FREE access to Sybex's superior online interactive learning environment and test bank, including hundreds of questions, a practice exam, electronic flashcards, and a glossary of key terms. This book will help you master the following topics covered in the AZ-900 certification exam: Cloud concepts Cloud types (Public, Private, Hybrid) Azure service types (IaaS, SaaS, PaaS) Core Azure services Security, compliance, privacy, and trust Azure pricing levels Legacy and modern lifecycles Growth in the cloud market continues to be very strong, and Microsoft is poised to see rapid and sustained growth in its cloud share. Written by a long-time Microsoft insider who helps customers move their workloads to and manage them in Azure on a daily basis, this book will help you break into the growing Azure space to take advantage of cloud technologies.

Azure Stack Hub Demystified Richard Young, 2021-10-07 Deploy, configure,

administer, and run Microsoft Azure Stack Hub Key Features

Understand the topics required for the Microsoft Azure AZ-600 exam

Configure and provide services from Microsoft Azure Stack Hub

Implement data center integration with Microsoft Azure Stack Hub

Book Description Azure Stack Hub is the on-premise offering from Microsoft, which provides Azure Cloud services within a customer's own data center. It provides consistent processes between on-site and the cloud, allowing developers to test locally and deploy to the cloud in exactly the same manner. Azure Stack Hub Demystified provides complete coverage of deploying, configuring, administrating, and running Microsoft Azure Stack Hub efficiently. Firstly, you will learn how to deploy Azure Stack Hub within an organization. As you progress, you'll understand configuration and the different services provided by the platform. The book also focuses on the underlying architecture and connectivity options for the modern data center. Later, you will understand various approaches to DevOps and their implementation, and learn key topics for the AZ-600 exam. By the end of this Azure book, you will have a thorough understanding of Azure Stack Hub and the services that are provided by the platform, along with the confidence and information you need to be able to pass the AZ-600 exam. What you will learn

Understand the architecture of Azure Stack Hub

Get up to speed with the management and administration of Azure Stack Hub

Explore how to administer virtual networking within your Azure Stack

Become well versed in using the Azure Stack Hub support model and updating Azure Stack Hub

Understand how licensing and billing is done with Azure Stack Hub

Discover the tools that can be used to implement security within Azure Stack Hub

Focus on how DevOps practices can be incorporated with Azure Stack

HubWho this book is for If you are an Azure Administrator and Azure Stack Hub Operator who provides or is looking to provide cloud services to end users or customers within their own data center, then this book is for you. This book will also be beneficial to those who are preparing for Exam AZ-600: Configuring and Operating a Hybrid Cloud with Microsoft Azure Stack Hub.

Engineering Data Mesh in Azure Cloud Aniruddha Deswandikar, 2024-03-29 Overcome data mesh adoption challenges using the cloud-scale analytics framework and make your data analytics landscape agile and efficient by using standard architecture patterns for diverse analytical workloads Key Features Delve into core data mesh concepts and apply them to real-world situations Safely reassess and redesign your framework for seamless data mesh integration Conquer practical challenges, from domain organization to building data contracts Purchase of the print or Kindle book includes a free PDF eBook Book Description Decentralizing data and centralizing governance are practical, scalable, and modern approaches to data analytics. However, implementing a data mesh can feel like changing the engine of a moving car. Most organizations struggle to start and get caught up in the concept of data domains, spending months trying to organize domains. This is where *Engineering Data Mesh in Azure Cloud* can help. The book starts by assessing your existing framework before helping you architect a practical design. As you progress, you'll focus on the Microsoft Cloud Adoption Framework for Azure and the cloud-scale analytics framework, which will help you quickly set up a landing zone for your data mesh in the cloud. The book also resolves common challenges related to the adoption and implementation of a data mesh faced by real customers. It touches on the concepts of data

contracts and helps you build practical data contracts that work for your organization. The last part of the book covers some common architecture patterns used for modern analytics frameworks such as artificial intelligence (AI). By the end of this book, you'll be able to transform existing analytics frameworks into a streamlined data mesh using Microsoft Azure, thereby navigating challenges and implementing advanced architecture patterns for modern analytics workloads. What you will learn Build a strategy to implement a data mesh in Azure Cloud Plan your data mesh journey to build a collaborative analytics platform Address challenges in designing, building, and managing data contracts Get to grips with monitoring and governing a data mesh Understand how to build a self-service portal for analytics Design and implement a secure data mesh architecture Resolve practical challenges related to data mesh adoption Who this book is for This book is for chief data officers and data architects of large and medium-size organizations who are struggling to maintain silos of data and analytics projects. Data architects and data engineers looking to understand data mesh and how it can help their organizations democratize data and analytics will also benefit from this book. Prior knowledge of managing centralized analytical systems, as well as experience with building data lakes, data warehouses, data pipelines, data integrations, and transformations is needed to get the most out of this book.

Professional Scrum Development with Azure DevOps Richard Hundhausen, 2021-02-15 Master proven processes for improving development with Scrum and Azure DevOps This guide can help any development team plan, track, and manage work far more effectively, by combining today's leading agile framework (Scrum) and

Microsoft's ALM/DevOps toolset (Azure DevOps). Renowned Scrum expert Richard Hundhausen thoroughly covers team formation, backlogs, Sprints, test plans, collaboration, flow, continuous improvement, Azure Boards, Azure Test Plans, and the real-world tradeoffs associated with DevOps. Throughout, you'll find practical, in-the-trenches tips from experienced Professional Scrum Developers. To make this guide even more valuable, Hundhausen has organized it to complement Scrum.org's popular Professional Scrum Developer (PSD) program, which he created with Scrum.org's Ken Schwaber, author of this book's Foreword. Professional Scrum Trainer Richard Hundhausen shows how to: Deepen your understanding of the Scrum framework and Professional Scrum as based on the 2020 Scrum Guide. Provide proven work item planning and tracking, and quickly drive value from Azure Boards Improve your Scrum "pre-game": the tasks you'll perform before your first Sprint Use Azure DevOps to create and manage backlogs, plan Sprints, and collaborate throughout them Improve at scale with Scaled Professional Scrum and the Nexus scaled Scrum framework Recognize which practices are still most efficiently performed without tools Define and optimize team flow, overcome common dysfunctions, and evolve into a high-performance Professional Scrum Team About This Book For everyone who works with or relies on Scrum, including developers, designers, architects, testers, business analysts, Product Owners, Scrum Masters, managers, and other stakeholders Focuses primarily on using Scrum for software products, but can support development of adaptive solutions for any complex problem performance Professional Scrum Team

Creating and Managing Virtual Machines and Networks Through Microsoft Azure

Services for Remote Access Connection Dr. Hedaya Mahmood Alasooly, 2021-02-04

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 an 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 a 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

Mastering Azure Cybellium Ltd,2023-09-06 Cybellium Ltd is dedicated to empowering individuals and organizations with the knowledge and skills they need to navigate the ever-evolving computer science landscape securely and learn only the latest information available on any subject in the category of computer science including: -

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Optimizing Microsoft Azure Workloads Rithin Skaria, 2023-08-11 Master Azure Well-Architected Framework and improve your optimization skills by enhancing the quality of your workloads Purchase of the print or Kindle book includes a free PDF eBook Key Features Learn Well-Architected Framework from a cloud solution architect and an official Microsoft trainer Optimize your workloads in Azure by following Microsoft recommended best practices Use reference architecture and Microsoft tests to conduct Well-Architected Framework (WAF) assessment Book Description It's easy to learn and deploy resources in Microsoft Azure, without worrying about resource optimization. However, for production or mission critical workloads, it's crucial that you follow best practices for resource deployment to attain security, reliability, operational excellence and performance. Apart from these aspects, you need to account for cost considerations, as it's the leading reason for almost every organization's cloud transformation. In this book, you'll learn to leverage Microsoft Well-Architected Framework to optimize your workloads in Azure. This Framework is a set of recommended practices developed by Microsoft based on five aligned pillars; cost optimization, performance, reliability, operational excellence, and security. You'll explore each of these pillars and discover how to perform an assessment to

determine the quality of your existing workloads. Through the book, you'll uncover different design patterns and procedures related to each of the Well-Architected Framework pillars. By the end of this book, you'll be well-equipped to collect and assess data from an Azure environment and perform the necessary upturn of your Azure workloads. What you will learn Dive deep into the Azure Well-Architected Framework Explore the differences between Cloud Adoption Framework and Well-Architected Framework Understand the pillars of the Well-Architected Framework Discover varied techniques to improve the cost profile of your workload Optimize your workflows using Azure Advisor and its score Plan and prioritize the implementation of security recommendations from WAF assessments Who this book is for This book is for developers, cloud solution architects, cloud administrators, and professionals experienced in design, implementation, and management of Azure resources. Professionals looking to learn cloud optimization or switch to a new role related to architecture can benefit from this book. An intermediate level understanding of the Microsoft Azure platform and services is a must. Experience in implementing or designing solutions in Azure is a plus but not mandatory.

Latest Microsoft Azure Fundamentals AZ-900 Exam Questions and Answers

UPTODATE EXAMS, Exam Name : Microsoft Azure Fundamentals Exam Code : AZ-900
Edition : Latest Verison (100% valid and stable) Number of Questions : 186 Questions with Answer

Exam Ref AZ-103 Microsoft Azure Administrator Michael Washam, Jonathan Tuliani, Scott Hoag, 2019-01-02 Prepare for Microsoft Exam AZ-103—and help demonstrate your real-world mastery of deploying and managing infrastructure in Microsoft Azure

cloud environments. Designed for experienced cloud professionals ready to advance their status, Exam Ref focuses on the critical thinking and decision-making acumen needed for success at the Microsoft Certified Associate level. Focus on the expertise measured by these objectives: Manage Azure subscriptions and resources Implement and manage storage Deploy and manage virtual machines (VMs) Configure and manage virtual networks Manage identities This Microsoft Exam Ref: Organizes its coverage by exam objectives Features strategic, what-if scenarios to challenge you Assumes you are an experienced Azure administrator who understands and manages diverse storage, security, networking and/or compute cloud services About the Exam Exam AZ-103 focuses on skills and knowledge needed to manage Azure subscriptions; analyze resource utilization and consumption; manage resource groups; establish storage accounts; import/export data; configure Azure files; implement backup; create, configure, and automate VM deployment; manage VMs and VM backups; implement, manage, and connect virtual networks; configure name resolution; create and configure Network Security Groups; manage Azure AD and its objects; and implement and manage hybrid identities. About Microsoft Certification Passing exam AZ-103 earns your Microsoft Certified: Azure Administrator Associate certification, demonstrating your skills in implementing, monitoring, and maintaining Microsoft Azure solutions, including major services related to compute, storage, network, and security.

Microsoft Azure: Learning the Basics Bill Stonehem, 2016-06-09 Microsoft Azure is a cloud computing platform that offers a wide selection of services that can be utilized without having to source and provision your own hardware. Azure provides users with the

swift development of solutions and offers the resources to complete tasks that may not be practicable in an environment that is located on-premises. Azure has features that provide compute, storage, network, and application services which allow users to focus on creating great solutions without having to be concerned about how the physical infrastructure is assembled.

Microsoft AZ-500 Certification: Azure Security Technologies Full Preparation
G Skills, This Book will assist you in your journey to obtain the Microsoft AZ-500: certified Azure Security Engineer Associate Certification. This book's practice tests are aligned to the AZ-500 exam objectives. This Book contains full-length practice tests of 120 Exclusive and Most important Real Exam Questions, to see how prepared you are for the real test. Each test contains 60+ questions, and you'll be able to see the answers and the detailed explanation at the end of each test. It's a good way to see how ready you are for the real thing! The exams are formatted just like the real questions would be. But, because its a book, we are limited in the types of questions we can offer, so this quiz will be multiple choice only unlike the real exam. But we're confident that you will be fairly tested on your knowledge of Azure Architecture after taking this exam. Microsoft's AZ-500 Azure Security Engineer exam is the first security certification from Azure. Getting that Azure Security Engineer certification is the ultimate proof of your expertise in Azure. This Exclusive New Book contains two complete practice tests so that you can prove your skills as an Azure Administrator. A perfect tool to assess your readiness, and find those one or two spots that you can study in the days before taking the test. Welcome!

Microsoft Azure Pricing & Support Options Richie Miller, If you want to PASS the

MICROSOFT AZURE AZ-900 EXAM, this book is for you! BUY THIS BOOK NOW AND GET STARTED TODAY! The AZ-900 Exam centres on the knowledge required to define cloud service benefits and usage considerations; explain IaaS, PaaS, and SaaS; compare public, private, and hybrid cloud models; describe core Azure architectural components, products, solutions, and management tools; describe how network connectivity is secured in Azure; describe core identity services; describe Azure security tools, features, governance methodologies, and monitoring and reporting options; describe privacy, compliance, and data protection standards; describe Azure subscriptions, cost planning, and cost management; and describe SLAs and the service lifecycle. In this book you will discover: · Introduction to Azure Subscriptions · How to create an Azure Subscription · How to Add and Name Azure Subscriptions · How to Provision a New Azure Subscription · Azure Management Groups · Azure Planning & Management Costs · Azure Free Subscription & Free Services Options · What's Affecting Azure Costs? · Best Practices for Minimizing Azure Costs · Azure Pricing Calculator Basics · How to use the Azure Price Calculator · Azure Support Options · Azure Knowledge Center · How to open a Support Ticket on Azure Knowledge Center · Azure Service Level Agreements · How to Determine the Appropriate SLA · Azure Service Lifecycle BUY THIS BOOK NOW AND GET STARTED TODAY!

Creating and Managing Virtual Machines and Networks Through Microsoft Azure Services for Remote Access Connection Hidaia Mahmood Alassouli,2021-02-25

Multi-Cloud Architecture and Governance Jeroen Mulder,2020-12-11 A comprehensive guide to architecting, managing, implementing, and controlling multi-cloud environments Key Features Deliver robust multi-cloud environments and improve your business

productivity Stay in control of the cost, governance, development, security, and continuous improvement of your multi-cloud solution Integrate different solutions, principles, and practices into one multi-cloud foundation Book Description Multi-cloud has emerged as one of the top cloud computing trends, with businesses wanting to reduce their reliance on only one vendor. But when organizations shift to multiple cloud services without a clear strategy, they may face certain difficulties, in terms of how to stay in control, how to keep all the different components secure, and how to execute the cross-cloud development of applications. This book combines best practices from different cloud adoption frameworks to help you find solutions to these problems. With step-by-step explanations of essential concepts and practical examples, you'll begin by planning the foundation, creating the architecture, designing the governance model, and implementing tools, processes, and technologies to manage multi-cloud environments. You'll then discover how to design workload environments using different cloud propositions, understand how to optimize the use of these cloud technologies, and automate and monitor the environments. As you advance, you'll delve into multi-cloud governance, defining clear demarcation models and management processes. Finally, you'll learn about managing identities in multi-cloud: who's doing what, why, when, and where. By the end of this book, you'll be able to create, implement, and manage multi-cloud architectures with confidence What you will learn Get to grips with the core functions of multiple cloud platforms Deploy, automate, and secure different cloud solutions Design network strategy and get to grips with identity and access management for multi-cloud Design a landing zone spanning multiple cloud platforms Use automation, monitoring, and management

tools for multi-cloud Understand multi-cloud management with the principles of BaseOps, FinOps, SecOps, and DevOps Define multi-cloud security policies and use cloud security tools Test, integrate, deploy, and release using multi-cloud CI/CD pipelines Who this book is for This book is for architects and lead engineers involved in architecting multi-cloud environments, with a focus on getting governance right to stay in control of developments in multi-cloud. Basic knowledge of different cloud platforms (Azure, AWS, GCP, VMWare, and OpenStack) and understanding of IT governance is necessary.

Building Hybrid Clouds with Azure Stack Markus Klein, Susan Roesner, 2017-08-28
Bring the power of Microsoft Azure Hybrid Cloud technology to your datacenter. About This Book Build and deploy software-defined infrastructures and deliver Azure-based IaaS and PaaS services in your datacenter Use Azure Stack to leverage your current infrastructure with Microsoft Hybrid Cloud and get the best of both worlds Unlock greater levels of performance and flexibility and save your organization money, time, and resources Who This Book Is For The book is for administrators and architects who are planning to implement or administer a hybrid cloud infrastructure using Microsoft Cloud Technology. This book is ideal for those who are looking forward to implement and run a hybrid cloud infrastructure with PaaS, SaaS and IaaS services. What You Will Learn Gain a clear understanding of Azure Stack design Set up storage, network and compute services in Azure Stack Implement and run a hybrid cloud infrastructure with PaaS, SaaS, and IaaS services Get an overview of the automation options in Azure Stack Integrate Azure public services such as multi-factor authentication and Azure AD with Azure Stack Learn about the services available in the future In Detail Azure Stack is all about creating fewer gaps

between on-premise and public cloud application deployment. Azure Stack is the next logical evolution of Microsoft Cloud Services to create a true Hybrid Cloud-ready application. This book provides an introduction to Microsoft Azure Stack and the Cloud First Approach. Starting with an introduction to Microsoft Azure Stack Architecture, the book will help you plan and deploy your Microsoft Azure Stack. Next, you will learn about the Network and Storage option in Microsoft Azure Stack and you'll create your own private cloud solution. Finally, you will understand how to integrate Public Cloud Services with Microsoft Azure Stack and extend it using the 3rd Party Resource Provider. After reading the book, you will have a good understanding of an end-to-end process for designing, implementing, offering, and supporting cloud solutions for enterprises or service providers. **Style and approach** This book is a practical guide to help you unlock a hybrid cloud stack using Azure Stack. Using a straight forward and easy to implement approach, this book guides you through the basic planning for a hybrid cloud stack, describes the infrastructure technologies Azure Stack is based on, and explains how to deploy and administer an Azure Stack-based infrastructure.

Serverless computing in Azure with .NET Sasha Rosenbaum, 2017-08-17 Harness the power of the Cloud, leveraging the speed and scale of Azure Serverless computing About This Book Take advantage of the agility, scale, and cost-effectiveness of the cloud using Azure Serverless compute Build scalable, reliable, and cost-effecient applications with Serverless architecture and .NET Learn to use Azure functions to their fullest potential in .NET Who This Book Is For This book is for .NET developers who would like to learn about serverless architecture. Basic C# programming knowledge is assumed. What

You Will Learn Understand the best practices of Serverless architecture Learn how how to deploy a Text Sentiment Evaluation application in an Azure Serverless environment Implement security, identity, and access control Take advantage of the speed of deployment in the cloud Configure application health monitoring, logging, and alerts Design your application to ensure cost effectiveness, high availability, and scale In Detail Serverless architecture allows you to build and run applications and services without having to manage the infrastructure. Many companies have started adopting serverless architecture for their applications to save cost and improve scalability. This book will be your companion in designing Serverless architecture for your applications using the .NET runtime, with Microsoft Azure as the cloud service provider. You will begin by understanding the concepts of Serverless architecture, its advantages and disadvantages. You will then set up the Azure environment and build a basic application using a sample text sentiment evaluation function. From here, you will be shown how to run services in a Serverless environment. We will cover the integration with other Azure and 3rd party services such as Azure Service Bus, as well as configuring dependencies on NuGet libraries, among other topics. After this, you will learn about debugging and testing your Azure functions, and then automating deployment from source control. Securing your application and monitoring its health will follow from there, and then in the final part of the book, you will learn how to Design for High Availability, Disaster Recovery and Scale, as well as how to take advantage of the cloud pay-as-you-go model to design cost-effective services. We will finish off with explaining how azure functions scale up against AWS Lambda, Azure Web Jobs, and Azure Batch compare to other types of compute-on-demand

services. Whether you've been working with Azure for a while, or you're just getting started, by the end of the book you will have all the information you need to set up and deploy applications to the Azure Serverless Computing environment. Style and approach This step-by-step guide shows you the concepts and features of Serverless architecture in Azure with .NET.

Microsoft Azure Infrastructure Services for Architects John Savill, 2019-10-01 An expert guide for IT administrators needing to create and manage a public cloud and virtual network using Microsoft Azure With Microsoft Azure challenging Amazon Web Services (AWS) for market share, there has been no better time for IT professionals to broaden and expand their knowledge of Microsoft's flagship virtualization and cloud computing service. *Microsoft Azure Infrastructure Services for Architects: Designing Cloud Solutions* helps readers develop the skills required to understand the capabilities of Microsoft Azure for Infrastructure Services and implement a public cloud to achieve full virtualization of data, both on and off premise. Microsoft Azure provides granular control in choosing core infrastructure components, enabling IT administrators to deploy new Windows Server and Linux virtual machines, adjust usage as requirements change, and scale to meet the infrastructure needs of their entire organization. This accurate, authoritative book covers topics including IaaS cost and options, customizing VM storage, enabling external connectivity to Azure virtual machines, extending Azure Active Directory, replicating and backing up to Azure, disaster recovery, and much more. New users and experienced professionals alike will: Get expert guidance on understanding, evaluating, deploying, and maintaining Microsoft Azure environments from Microsoft MVP

and technical specialist John Savill Develop the skills to set up cloud-based virtual machines, deploy web servers, configure hosted data stores, and use other key Azure technologies Understand how to design and implement serverless and hybrid solutions Learn to use enterprise security guidelines for Azure deployment Offering the most up to date information and practical advice, Microsoft Azure Infrastructure Services for Architects: Designing Cloud Solutions is an essential resource for IT administrators, consultants and engineers responsible for learning, designing, implementing, managing, and maintaining Microsoft virtualization and cloud technologies.

Microsoft Azure Marshall Copeland, Julian Soh, Anthony Puca, Mike Manning, David Gollob, 2015-10-08 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.

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