

Azure Storage Metrics

Richard L. Nuckolls

Understanding Azure Monitoring Bapi Chakraborty, Shijimol Ambi Karthikeyan, 2019-11-21 Explore the architectural constructs of Azure monitoring capabilities and learn various design and implementation aspects for complex use cases. This book covers the different scenarios in a modern-day multi-cloud enterprise and the tools available in Azure for monitoring and securing these environments. Understanding Azure Monitoring starts by discussing the rapid changes happening in the cloud and the challenges faced by cloud architects. You will then look at the basics of Azure monitoring and the available tools, including service level agreements (SLAs), auditing, and security. Next, you will learn how to select the best tools for monitoring, operational strategy, and integration with on-premises SIEM systems. You'll work through some scenario-based examples to monitor the workload and respond to failures. Here, you will monitor a simple web application on Azure, a multi-region web application, and applications that include PaaS and IaaS services. Towards the end of the book, you will explore monitoring in DevOps and see why it is important to be aware of continuous changes. What You Will Learn Work with Azure IaaS and PaaS resources and monitoring and diagnostics capabilities Discover how the operational landscape changes on Azure Look at cloud-only and on-premises hybrid integration Study architectural constructs for design and implementation Who This Book Is For Infrastructure and solution architects who want to integrate Azure-based monitoring solutions in a cloud native or hybrid-cloud architecture.

Azure Storage, Streaming, and Batch Analytics Richard L. Nuckolls, 2020-11-03 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

Learning Microsoft Azure Storage Mohamed Waly, 2017-11-15 A step-by-step guide to get you up and running with Azure Storage services and helps you build solutions that leverage effective design patterns About This Book Discover best practices for designing and implementing Azure Storage for Azure VMs, and highly available apps Effectively plan, design, and implement SQL databases with Azure Protect your data with Azure Backup and Azure Site Recovery Who This Book Is For This book is targeted at Developers, IT Professionals, and even Database Admins who have experience of working on Microsoft Azure and want to make the most of Azure Storage services. Some knowledge of SQL Server will be beneficial. What You Will Learn Understand Azure Storage types and determine the appropriate one for your needs Design Azure Storage for Azure VMs according to best practices Design and implement your SQL Database on Azure according to best practices Learn how to work with Azure Backup Learn how to work with Azure Site Recovery Extend Azure Storage to StorSimple Monitor storage metrics and logs and customize the Azure monitoring dashboard Monitor and troubleshoot Azure Storage In Detail Microsoft Azure Storage is the bedrock of Microsoft's core storage solution offering in Azure. No matter what solution you are building for the cloud, you'll find a compelling use for Azure Storage. This book will help you get up-to-speed quickly on Microsoft Azure Storage by teaching you how to use the different storage services. You will be able to leverage secure design patterns based on real-world scenarios and develop a strong storage foundation for Azure virtual machines. You will start this book with an introduction to Microsoft Azure storage and how it can be used to build large-scale, real-world applications using Azure storage services such as blob, table, queue, and file. This book will also teach you about the different types of Azure Storage. You will then find out the best practices for designing your Azure VM storage, whether it is Windows based or Linux based and how to migrate your storage in different scenarios. You will learn also how to plan and implement your SQL database solution on Azure, and how to build your SQL database in different service models (IaaS/PaaS). Moreover, you will also learn best practices for dealing with Azure Backup, the role of Azure Site Recovery, and the solutions they offer in different scenarios. Finally, you will use StorSimple to unlock the maximum value from all of your data, and some tools that will help you manage your storage on-and off-premise (Azure), such as AzCopy and Storage Explorer. Monitoring your storage in no laughing matter, so you will learn to monitor, diagnose and troubleshoot it. Style and approach This book will provide an in-depth insight into properly designing your environment and saving money on your running workloads. Using cutting-edge examples, you will be able to efficiently monitor, diagnose, and troubleshoot Azure Storage.

Azure Storage, Streaming, and Batch Analytics Richard Nuckolls, 2020-10-03 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

Microsoft Azure Storage Essentials Chukri Soueidi,2015-08-28 Harness the power of Microsoft Azure services to build efficient cloud solutions About This Book Get to grips with the features of Microsoft Azure in terms of Blob, Table, Queue, and File storage Learn the how and when of using the right storage service for different business use cases Make use of Azure storage services in various languages with this fast-paced and easy-to-follow guide Who This Book Is For If you are an IT professional with basic knowledge of Microsoft Azure and want to learn Azure storage services, then this book is for you. Some familiarity with C# and Visual Studio is needed in order to utilize the examples present in the book. What You Will Learn/h2ulliGet familiar with Windows Azure Storage Service in terms of architecture and working/liliRecognize the libraries and tools offered by Azure storage, supporting several popular programming languages/liliKnow how the storage services expose their resources as REST APIs and what client libraries exists to develop against the storage/liliGain the understanding of types of Blobs and best ways to upload and retrieve them/liliLearn how to make use of Tables as a NoSQL data store and how to retrieve, insert, update and delete entities in terms of design patterns/liliUse Queue storage as a messaging solution for communications between different apps/liliCreate mounted shares and allow legacy systems to access data using the SMB protocol/liliGet accustomed to deal with faults, monitor storage metrics and logs/li/ulh2In DetailpWith the many advantages of using cloud computing, Azure Storage is a robust platform that helps you shift faster to the cloud by providing scalable, durable and highly available data storage options. For developers, it provides a rapid development environment that supports building large-scale applications to support new scenarios on the cloud, server, mobile and web. For IT professionals, it reduces complexity of managing, protecting and replicating data./ppThis book will make you familiar with the Azure storage in terms of architecture and components. It starts with the basics of storage accounts, which give access to the four basic services the Blob, Table, Queue, and File storage services. These services are exposed through a REST API that makes it possible for client libraries to implement most of their functionality in a wide range of popular programming languages. Emphasizing the Windows Azure Client Library for .NET, we will deal with storing and retrieving unstructured data with Blobs, then will move to Tables to insert and update entities in a structured NoSQL fashion. Then we will discover Queues as a reliable messaging service, and after that we will show File storage that allows you to migrate legacy applications data to the cloud to end with transient fault handling and service monitoring./ph2Style and approach/h2pThis book is a concise and fast-paced guide to learn about development for storage services. Each topic is elaborated sequentially, in order to create basic knowledge for using it in the right place and the correct way.

Hands-on Cloud Analytics with Microsoft Azure Stack Prashila Naik,2020-11-12 Explore and work with various Microsoft Azure services for real-time Data Analytics KEY FEATURESÊ Understanding what Azure can do with your data Understanding the analytics services offered by Azure Understand how data can be transformed to generate more data Understand what is done after a Machine Learning model is builtÊ Go through some Data Analytics real-world use cases ÊÊ DESCRIPTIONÊ Data is the key input for Analytics. Building and implementing data platforms such as Data Lakes, modern Data Marts, and Analytics at scale require the right cloud platform that Azure provides through its services. The book starts by sharing how analytics has evolved and continues to evolve. Following the introduction, you will deep dive into ingestion technologies. You will learn about Data processing services in Azure. You will next learn about what is meant by a Data Lake and understand how Azure Data Lake Storage is used for analytical workloads. You will then learn about critical services that will provide actual Machine Learning capabilities in Azure. The book also talks about Azure Data Catalog for cataloging, Azure AD for Access Management, Web Apps and PowerApps for cloud web applications, Cognitive services for Speech, Vision, Search and Language, Azure VM for computing and Data Science VMs, Functions as serverless computing, Kubernetes and Containers as deployment options. Towards the end, the book discusses two use cases on Analytics. WHAT WILL YOU LEARNÊÊ Explore and work with various Azure services Orchestrate and ingest data using Azure Data Factory Learn how to use Azure Stream Analytics Get to know more about Synapse Analytics and its features Learn how to use Azure Analysis Services and its functionalities Ê WHO THIS BOOK IS FORÊ This book is for anyone who has basic to intermediate knowledge of cloud and analytics concepts and wants to use Microsoft Azure for Data Analytics. This book will also benefit Data Scientists who want to use Azure for Machine Learning. Ê TABLE OF CONTENTSÊÊ 1. Ê Data and its power 2. Ê Evolution of Analytics and its Types 3. Ê Internet of Things 4. Ê AI and ML 5. Ê Why cloud 6. Ê What are a data lake and a modern datamart 7. Ê Introduction to Azure services 8. Ê Types of data 9. Ê Azure Data Factory 10. Stream Analytics 11. Azure Data Lake Store and Azure Storage 12. Cosmos DB 13.Ê Synapse Analytics 14.Ê Azure Databricks 15.Ê Azure Analysis Services 16.Ê Power BI 17.Ê Azure Machine Learning 18.Ê Sample Architectures and synergies - Real-Time and Batch 19.Ê Azure Data Catalog 20.Ê Azure Active Directory 21.Ê Azure Webapps 22.Ê Power apps 23.Ê Time Series Insights 24.Ê Azure Cognitive Services 25.Ê Azure Logicapps 26.Ê Azure VM 27.Ê Azure Functions 28.Ê Azure Containers 29.Ê Azure KubernetesÊ Service 30.Ê Use Case 1 31.Ê Use Case 2

Mastering Azure Analytics Zoiner Tejada,2017-04-06 Microsoft Azure has over 20 platform-as-a-service (PaaS) offerings that can act in support of a big data analytics solution. So which one is right for your project? This practical book helps you understand the breadth of Azure services by organizing them into a reference

framework you can use when crafting your own big data analytics solution. You'll not only be able to determine which service best fits the job, but also learn how to implement a complete solution that scales, provides human fault tolerance, and supports future needs. Understand the fundamental patterns of the data lake and lambda architecture Recognize the canonical steps in the analytics data pipeline and learn how to use Azure Data Factory to orchestrate them Implement data lakes and lambda architectures, using Azure Data Lake Store, Data Lake Analytics, HDInsight (including Spark), Stream Analytics, SQL Data Warehouse, and Event Hubs Understand where Azure Machine Learning fits into your analytics pipeline Gain experience using these services on real-world data that has real-world problems, with scenarios ranging from aviation to Internet of Things (IoT)

Developing Cloud Applications with Windows Azure Storage Paul Mehner,2013-03-15 Get the focused, pragmatic guidance you need to build professional cloud applications using Windows Azure Storage. This is one of the few books centered around Storage capabilities, and the author provides essential, expert coverage of the four key services - BLOB, tables, queues, and drives. Developers will gain hands-on insights, including detailed sections on business use cases and guidance for choosing the right storage option for the job. Provides architectural and programming guidance to professional developers and architects proficient with Microsoft Visual Studio, C#, and LINQ Illuminates when and how to use BLOB storage, table storage, queues, and Windows Azure Drive to build, host, and scale applications in Microsoft-managed datacenters Presents business-case context for choosing the right service for your scenario, e.g. readers will compare relational tables to Windows Azure tables to understand benefits and tradeoffs

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.

Exam Ref 70-532 Developing Microsoft Azure Solutions Zoiner Tejada,Michele Leroux Bustamante,Ike Ellis,2015-02-20 Prepare for Microsoft Exam 70-532--and help demonstrate your real-world mastery of Microsoft Azure solution development. Designed for experienced developers ready to advance their status, Exam Ref focuses on the critical-thinking and decision-making acumen needed for success at the Microsoft Specialist level. Focus on the expertise measured by these objectives: Design and implement Websites Create and manage Virtual Machines Design and implement Cloud Services Design and implement a storage strategy Manage application and network services This Microsoft Exam Ref: Organizes its coverage by exam objectives Features strategic, what-if scenarios to challenge you Will be valuable for Microsoft Azure developers, solution architects, DevOps engineers, and QA engineers Assumes you have experience designing, programming, implementing, automating, and monitoring Microsoft Azure solutions and that you are proficient with tools, techniques, and approaches for building scalable, resilient solutions Developing Microsoft Azure Solutions About the Exam Exam 70-532 focuses on the skills and knowledge needed to develop Microsoft Azure solutions that include websites, virtual machines, cloud services, storage, application services, and network services. About Microsoft Certification Passing this exam earns you a Microsoft Specialist certification in Microsoft Azure, demonstrating your expertise with the Microsoft Azure enterprise-grade cloud platform. You can earn this certification by passing Exam 70-532, Developing Microsoft Azure Solutions; or Exam 70-533, Implementing Microsoft Azure Infrastructure Solutions; or Exam 70-534, Architecting Microsoft Azure Solutions. See full details at: microsoft.com/learning

Exam Ref 70-533 Implementing Microsoft Azure Infrastructure Solutions Michael Washam,Rick Rainey,Dan Patrick,Steve Ross,2018-01-23 Prepare for the newest versions of Microsoft Exam 70-533--and help demonstrate your real-world mastery of implementing Microsoft Azure Infrastructure as a Service (IaaS). Designed for experienced IT professionals ready to advance their status, Exam Ref focuses on the critical thinking and decision-making acumen needed for success at the MCSA level. Focus on the expertise measured by these objectives: Design and implement Azure App Service Apps Create and manage compute resources, and implement containers Design and implement a storage strategy, including storage encryption Implement virtual networks, including new techniques for hybrid connections Design and deploy ARM Templates Manage Azure security and Recovery Services Manage Azure operations, including automation and data analysis Manage identities with Azure AD Connect Health, Azure AD Domain Services, and Azure AD single sign on This Microsoft Exam Ref: Organizes its coverage by exam objectives Features strategic, what-if scenarios to challenge you Assumes you are an IT professional with experience implementing and monitoring cloud and hybrid solutions and/or supporting application lifecycle management This book covers the 533 objectives as of December 2017. If there are updates for this book, you will find them at <https://aka.ms/examref5332E/errata>. About the Exam Exam 70-533 focuses on skills and knowledge for provisioning and managing services in Microsoft Azure, including: implementing infrastructure components such as virtual networks, virtual machines, containers, web and mobile apps, and storage; planning and managing Azure AD, and configuring Azure AD integration with on-premises Active Directory domains. About Microsoft Certification Passing this exam helps qualify you for MCSA: Cloud Platform Microsoft Certified Solutions Associate certification, demonstrating your expertise in applying Microsoft cloud technologies to reduce costs and deliver value. To earn this certification, you must also pass any one of the

following exams: 70-532 Developing Microsoft Azure Solutions, or 70-534 Architecting Microsoft Azure Solutions, or 70-535, Architecting Microsoft Azure Solutions, or 70-537: Configuring and Operating a Hybrid Cloud with Microsoft Azure Stack.

Microsoft Azure Data Solutions - An Introduction Daniel A. Seara, Francesco Milano, Danilo Dominici, 2021-07-14 Discover and apply the Azure platform's most powerful data solutions Cloud technologies are advancing at an accelerating pace, supplanting traditional relational and data warehouse storage solutions with novel, high-value alternatives. Now, three pioneering Azure Data consultants offer an expert introduction to the relational, non-relational, and data warehouse solutions offered by the Azure platform. Drawing on their extensive experience helping organizations get more value from the Microsoft Data Platform, the authors guide you through decision-making, implementation, operations, security, and more. Throughout, step-by-step tutorials and hands-on exercises prepare you to succeed, even if you have no cloud data experience. Three leading experts in Microsoft Azure Data Solutions show how to: Master essential concepts of data storage and processing in cloud environments Handle the changing responsibilities of data engineers moving to the cloud Get started with Azure data storage accounts and other data facilities Walk through implementing relational and non-relational data stores in Azure Secure data using the least-permissions principle, Azure Active Directory, role-based access control, and other methods Develop efficient Azure batch processing and streaming solutions Monitor Azure SQL databases, blob storage, data lakes, Azure Synapse Analytics, and Cosmos DB Optimize Azure data solutions by solving problems with storage, management, and service interactions About This Book For data engineers, systems engineers, IT managers, developers, database administrators, cloud architects, and other IT professionals Requires little or no knowledge about Azure tools and services for data analysis

Windows Azure Platform Tejaswi Redkar, Tony Guidici, 2012-01-29 The Windows Azure Platform has rapidly established itself as one of the most sophisticated cloud computing platforms available. With Microsoft working to continually update their product and keep it at the cutting edge, the future looks bright—if you have the skills to harness it. In particular, new features such as remote desktop access, dynamic content caching and secure content delivery using SSL make the latest version of Azure a more powerful solution than ever before. It's widely agreed that cloud computing has produced a paradigm shift in traditional architectural concepts by providing new ways to both store and process data. The basic concepts of the cloud are now well understood throughout the industry. What is much less well understood, and the primary focus of this book, is how the the Windows Azure technology can be applied in real-world scenarios and made to work for you. This book answers those questions, demonstrating how all the features of Windows Azure—both old and new—can be put to work. By the time you're done reading, you will be comfortable building high-quality end-to-end Windows Azure services of your own. The book, like the Azure platform itself, is divided into three key parts—Windows Azure, SQL Azure, and Windows Azure AppFabric. Each of these plays a unique role in the functioning of your cloud service. It is the goal of this book to show you how to use these components, both separately and together, to build flawless cloud applications as well as hybrid architectures that fit in alongside your business' existing systems. Pro Windows Azure Platform, Second Edition is a down-to-earth, code-centric book that shows precisely how the all the components of Windows Azure are employed, and demonstrates the techniques and best practices you'll need to put them to work.

Exam Ref 70-533 Michael Washam, Rick Rainey, 2015 Prepare for Microsoft Exam 70-533—and help demonstrate your real-world mastery of Microsoft Azure infrastructure solution implementation. Designed for experienced IT pros ready to advance their status, Exam Ref focuses on the critical-thinking and decision-making acumen needed for success at the Microsoft Specialist level. Focus on the expertise measured by these objectives: Deploy, configure, monitor, and scale websites Implement virtual machine workloads, images, disks, networking, and storage Configure, deploy, manage, and monitor cloud services Implement blobs, Azure files, SQL databases, and recovery services Manage access and configure diagnostics, monitoring, and analytics Implement an Azure Active Directory and integrate apps Configure and modify virtual networks, including multisite and hybrid networks This Microsoft Exam Ref : Organizes its coverage by exam objectives Features strategic, what-if scenarios to challenge you Will be valuable for IT pros, including enterprise architects; DevOps, network, server, virtualization, and identity engineers; and storage or security administrators Assumes you have experience implementing Microsoft Azure infrastructure solutions Implementing Microsoft Azure Infrastructure Solutions About the Exam Exam 70-533 focuses on the skills and knowledge needed to implement web- sites, virtual machines, cloud services, storage, Azure Active Directory, and virtual networks with Microsoft Azure. About Microsoft Certification Passing this exam earns you a Microsoft Specialist certification in Microsoft Azure, demonstrating your expertise with the Microsoft Azure enterprise-grade cloud platform. You can earn this certification by passing Exam 70-532, Developing Microsoft Azure Solutions; or Exam 70-533, Implementing Microsoft Azure Infrastructure Solutions; or Exam 70-534, Architecting Microsoft Azure Solutions. See full details at: microsoft.com/learning.

Azure Data Engineering Cookbook Nagaraj Venkatesan, Ahmad Osama, 2022-09-26 Nearly 80 recipes to help you collect and transform data from multiple sources into a single data source, making it way easier to perform analytics on the data Key Features Build data pipelines from scratch and find solutions to common data engineering problems Learn how to work with Azure Data Factory, Data Lake, Databricks, and Synapse Analytics Monitor and maintain your data engineering pipelines using Log Analytics, Azure Monitor, and Azure Purview Book Description The famous quote 'Data is the new oil' seems more true every day as the key to most organizations' long-term success lies in extracting insights from raw data. One of the major challenges organizations face in leveraging value out of data is building performant data engineering pipelines for data visualization, ingestion, storage, and processing. This second edition of the immensely successful book by Ahmad Osama brings to you several recent enhancements in Azure data engineering and shares approximately 80 useful recipes covering common scenarios in building data engineering pipelines in Microsoft Azure. You'll explore recipes from Azure Synapse Analytics workspaces Gen 2 and get to grips with Synapse Spark pools, SQL Serverless pools, Synapse integration pipelines, and Synapse data flows. You'll also understand Synapse SQL Pool optimization techniques in this second edition. Besides Synapse enhancements, you'll discover helpful tips on managing Azure SQL Database and learn about security, high availability, and performance monitoring. Finally, the book takes you through overall data engineering pipeline management, focusing on monitoring using Log Analytics and tracking data lineage using Azure Purview. By the end of this book, you'll be able to build superior data engineering pipelines along with having an invaluable go-to guide. What you will learn Process data using Azure Databricks

and Azure Synapse AnalyticsPerform data transformation using Azure Synapse data flowsPerform common administrative tasks in Azure SQL DatabaseBuild effective Synapse SQL pools which can be consumed by Power BIMonitor Synapse SQL and Spark pools using Log AnalyticsTrack data lineage using Microsoft Purview integration with pipelinesWho this book is for This book is for data engineers, data architects, database administrators, and data professionals who want to get well versed with the Azure data services for building data pipelines. Basic understanding of cloud and data engineering concepts will help in getting the most out of this book.

Microsoft Azure Architect Technologies and Design Complete Study Guide Benjamin Perkins,William Panek,2021-01-13 Become a proficient Microsoft Azure solutions architect Azure certifications are critical to the millions of IT professionals Microsoft has certified as MCSE and MCSA in Windows Server in the last 20 years. All of these professionals need to certify in key Azure exams to stay current and advance in their careers. Exams AZ-303 and AZ-304 are the key solutions architect exams that experienced Windows professionals will find most useful at the intermediate and advanced points of their careers. Microsoft Azure Architect Technologies and Design Complete Study Guide Exams AZ-303 and AZ-304 covers the two critical Microsoft Azure exams that intermediate and advanced Microsoft IT professionals will need to show proficiency as their organizations move to the Azure cloud. Understand Azure Set up your Microsoft Cloud network Solve real-world problems Get the confidence to pass the exam By learning all of these things plus using the Study Guide review questions and practice exams, the reader will be ready to take the exam and perform the job with confidence.

Azure Data Engineering Cookbook Ahmad Osama,2021-04-05 Over 90 recipes to help you orchestrate modern ETL/ELT workflows and perform analytics using Azure services more easily Key FeaturesBuild highly efficient ETL pipelines using the Microsoft Azure Data servicesCreate and execute real-time processing solutions using Azure Databricks, Azure Stream Analytics, and Azure Data ExplorerDesign and execute batch processing solutions using Azure Data FactoryBook Description Data engineering is one of the faster growing job areas as Data Engineers are the ones who ensure that the data is extracted, provisioned and the data is of the highest quality for data analysis. This book uses various Azure services to implement and maintain infrastructure to extract data from multiple sources, and then transform and load it for data analysis. It takes you through different techniques for performing big data engineering using Microsoft Azure Data services. It begins by showing you how Azure Blob storage can be used for storing large amounts of unstructured data and how to use it for orchestrating a data workflow. You'll then work with different Cosmos DB APIs and Azure SQL Database. Moving on, you'll discover how to provision an Azure Synapse database and find out how to ingest and analyze data in Azure Synapse. As you advance, you'll cover the design and implementation of batch processing solutions using Azure Data Factory, and understand how to manage, maintain, and secure Azure Data Factory pipelines. You'll also design and implement batch processing solutions using Azure Databricks and then manage and secure Azure Databricks clusters and jobs. In the concluding chapters, you'll learn how to process streaming data using Azure Stream Analytics and Data Explorer. By the end of this Azure book, you'll have gained the knowledge you need to be able to orchestrate batch and real-time ETL workflows in Microsoft Azure. What you will learnUse Azure Blob storage for storing large amounts of unstructured dataPerform CRUD operations on the Cosmos Table APIImplement elastic pools and business continuity with Azure SQL DatabaseIngest and analyze data using Azure Synapse AnalyticsDevelop Data Factory data flows to extract data from multiple sourcesManage, maintain, and secure Azure Data Factory pipelinesProcess streaming data using Azure Stream Analytics and Data ExplorerWho this book is for This book is for Data Engineers, Database administrators, Database developers, and extract, load, transform (ETL) developers looking to build expertise in Azure Data engineering using a recipe-based approach. Technical architects and database architects with experience in designing data or ETL applications either on-premise or on any other cloud vendor who wants to learn Azure Data engineering concepts will also find this book useful. Prior knowledge of Azure fundamentals and data engineering concepts is needed.

Implementing Microsoft Azure Architect Technologies: AZ-303 Exam Prep and Beyond Brett Hargreaves,Sjoukje Zaal,2020-12-18 Become a certified Azure Architect and learn how to design effective solutions that span compute, security, networking, and development Key FeaturesDiscover how you can design and architect powerful and cost-effective solutions on Microsoft AzurePrepare to achieve AZ-303 certification with the help of mock tests and practice questionsEnhance your computing, networking, storage, and security skills to design modern cloud-based solutionsBook Description From designing solutions on Azure to configuring and managing virtual networks, the AZ-303 certification validates your knowledge and skills for all this and much more. Whether you want to take the certification exam or gain hands-on experience in administering, developing, and architecting Azure solutions, this study guide will help you get started. Divided into four modules, this book systematically takes you through the wide range of concepts and features covered in the AZ-303 exam. The first module demonstrates how to implement and monitor infrastructure. You'll develop the skills required to deploy and manage core Azure components such as virtual machines, networking, storage, and Active Directory (AD). As you progress, you'll build on that knowledge and learn how to create resilient and secure applications before moving on to working with web apps, functions, and containers. The final module will get you up to speed with data platforms such as SQL and Cosmos DB, including how to configure the different high availability options. Finally, you'll solve mock tests and assess yourself with the answers provided to get ready to take the exam with confidence. By the end of this book, you'll have learned the concepts and techniques you need to know to prepare for the AZ-303 exam and design effective solutions on Microsoft Azure. What you will learnManage Azure subscriptions and resourcesEnsure governance and compliance with policies, roles, and blueprintsBuild, migrate, and protect servers in AzureConfigure, monitor, and troubleshoot virtual networksManage Azure AD and implement multi-factor authenticationConfigure hybrid integration with Azure AD ConnectFind out how you can monitor costs, performance, and securityDevelop solutions that use Cosmos DB and Azure SQL DatabaseWho this book is for This book is for solution architects and experienced developers who advise stakeholders and translate business requirements into secure, scalable, and reliable solutions. Technical architects interested in learning more about designing cloud solutions will also find this book useful. Prior experience and knowledge of various aspects of IT operations, including networking, security, business continuity, disaster recovery, budgeting, and governance, will assist with understanding the concepts covered in the book.

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Table of Contents Azure Storage Metrics

1. Understanding the eBook Azure Storage Metrics <ul style="list-style-type: none">◦ The Rise of Digital Reading Azure Storage Metrics◦ Advantages of eBooks Over Traditional Books	◦ Personalized Recommendations	Storage Metrics
2. Identifying Azure Storage Metrics <ul style="list-style-type: none">◦ Exploring Different Genres◦ Considering Fiction vs. Non-Fiction◦ Determining Your Reading Goals	◦ Azure Storage Metrics User Reviews and Ratings	◦ Highlighting and Note-Taking Azure Storage Metrics
3. Choosing the Right eBook Platform <ul style="list-style-type: none">◦ Popular eBook Platforms◦ Features to Look for in an Azure Storage Metrics◦ User-Friendly Interface	◦ Azure Storage Metrics and Bestseller Lists	◦ Interactive Elements Azure Storage Metrics
4. Exploring eBook Recommendations from Azure Storage Metrics	5. Accessing Azure Storage Metrics Free and Paid eBooks <ul style="list-style-type: none">◦ Azure Storage Metrics Public Domain eBooks◦ Azure Storage Metrics eBook Subscription Services◦ Azure Storage Metrics Budget-Friendly Options	8. Staying Engaged with Azure Storage Metrics <ul style="list-style-type: none">◦ Joining Online Reading Communities◦ Participating in Virtual Book Clubs◦ Following Authors and Publishers Azure Storage Metrics
	6. Navigating Azure Storage Metrics eBook Formats <ul style="list-style-type: none">◦ ePub, PDF, MOBI, and More◦ Azure Storage Metrics Compatibility with Devices◦ Azure Storage Metrics Enhanced eBook Features	9. Balancing eBooks and Physical Books Azure Storage Metrics <ul style="list-style-type: none">◦ Benefits of a Digital Library◦ Creating a Diverse Reading Collection Azure Storage Metrics
	7. Enhancing Your Reading Experience <ul style="list-style-type: none">◦ Adjustable Fonts and Text Sizes of Azure	10. Overcoming Reading Challenges <ul style="list-style-type: none">◦ Dealing with Digital Eye Strain◦ Minimizing Distractions

- Managing Screen Time
- 11. Cultivating a Reading Routine Azure Storage Metrics
 - Setting Reading Goals Azure Storage Metrics
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Azure Storage Metrics
 - Fact-Checking eBook Content of Azure Storage Metrics
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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