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# Introducing The Azure Analysis Services Web Designer

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Implementing Hybrid Cloud with Azure Arc  
Introducing Windows Azure for IT Professionals  
Ultimate Azure Data Engineering  
Learn Azure Sentinel  
Predictive Analytics with Microsoft Azure Machine Learning  
Introducing Microsoft SQL Server 2016  
Introducing Windows Azure  
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Data Modeling for Azure Data Services  
Mastering Azure Analytics  
Stream Analytics with Microsoft Azure  
Microsoft Azure Essentials - Fundamentals of Azure  
Introducing Azure Kubernetes Service  
Designing Distributed Systems  
Hands-on Cloud Analytics with Microsoft Azure Stack  
Microsoft Azure  
Microsoft Azure AI: A Beginner's Guide  
Mastering Azure Synapse Analytics  
Predictive Analytics with Microsoft Azure Machine Learning 2nd Edition  
Beginning DAX with Power BI  
Stream Analytics with Microsoft Azure  
Professional Microsoft SQL Server Analysis Services 2008 with MDX  
Cloud Analytics with Microsoft Azure  
Introducing Microsoft SQL Server 2019  
Introducing Microsoft Power BI  
Azure Data Factory by Example

Introducing Microsoft Azure HDInsight  
Demystifying AI: A Comprehensive Guide to Microsoft Certified Azure AI Fundamentals  
Introduction to Azure  
Microsoft Azure Data Solutions - An Introduction  
Microsoft Azure Data Solutions - An Introduction  
Learn Microsoft Azure  
Microsoft Azure Essentials Azure Web Apps for Developers  
Beginning Azure Cognitive Services  
Deployment of Microsoft Azure Cloud Solutions  
Applied Microsoft SQL Server 2012 Analysis Services  
Tabular Modeling in Microsoft SQL Server Analysis Services  
The Modern Data Warehouse in Azure  
Learning Microsoft Azure  
Introducing Windows Azure Hdinsight

*Introducing The Azure  
Analysis Services Web  
Designer*

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## **HAYNES POPE**

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### Implementing Hybrid Cloud with Azure Arc

Packt Publishing Ltd

A practical guide that will help you transform your data into actionable insights with Azure Synapse Analytics  
**KEY FEATURES**

- Explore the different features in the Azure Synapse Analytics workspace.
- Learn how to integrate Power BI and Data Governance capabilities with Azure

Synapse Analytics. ● Accelerate your analytics journey with the no-code/low-code capabilities of Azure Synapse. DESCRIPTION Cloud analytics is a crucial aspect of any digital transformation initiative, and the capabilities of the Azure Synapse analytics platform can simplify and streamline this process. By mastering Azure Synapse Analytics, analytics developers across organizations can boost their productivity by utilizing low-code, no-code, and traditional code-based analytics frameworks. This book starts with a comprehensive introduction to Azure

Synapse Analytics and its limitless cloud-scale analytics capabilities. You will then learn how to explore and work with data warehousing features in Azure Synapse. Moving on, the book will guide you on how to effectively use Synapse Spark for data engineering and data science. It will help you learn how to gain insights from your data through Observational analytics using Synapse Data Explorer. You will also discover the seamless data integration capabilities of Synapse Pipeline, and delve into the benefits of Synapse Analytics' low-code and no-code pipeline development

features. Lastly the book will show you how to create network topology and implement industry-specific architecture patterns in Azure Synapse Analytics. By the end of the book, you will be able to process and analyze vast amounts of data in real-time to gain insights quickly and make informed decisions. **WHAT YOU WILL LEARN**

- Leverage Synapse Spark for machine learning tasks.
- Use Synapse Data Explorer for telemetry analysis.
- Take advantage of Synapse's common data model-based database templates.
- Query data using T-SQL, KQL, and Spark SQL within Synapse.
- Integrate Microsoft Purview with Synapse for enhanced data governance.

**WHO THIS BOOK IS FOR** This book is designed for Cloud data engineers with prior experience in Azure cloud computing, as well as Chief Data Officers (CDOs) and Data professionals, who want to use this unified platform for data ingestion, data warehousing, and big data analytics.

**TABLE OF CONTENTS**

1. Cloud Analytics Concept
2. Introduction to Azure Synapse Analytics
3. Modern Data Warehouse with the Synapse SQL Pool
4. Query as a Service- Synapse Serverless SQL
5. Synapse Spark Pool Capability
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7. Synapse Spark and Data Science
8. Learning Synapse Data Explorer
9. Synapse Data Integration
10. Synapse Link for HTAP
11. Azure Synapse -Unified Analytics Service
12. Synapse Workspace Ecosystem Integration
13. Azure Synapse Network Topology
14. Industry Cloud Analytics

**Introducing Windows Azure for IT Professionals** Microsoft Press

Discover and apply the Azure platforms 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.

*Ultimate Azure Data Engineering* Apress

**TAGLINE** Discover the world of data engineering in an on-premises setting

versus the Azure cloud **KEY FEATURES** ● Explore Azure data engineering from foundational concepts to advanced techniques, spanning SQL databases, ETL processes, and cloud-native solutions. ● Learn to implement real-world data projects with Azure services, covering data integration, storage, and analytics, tailored for diverse business needs. ● Prepare effectively for Azure data engineering certifications with detailed exam-focused content and practical exercises to reinforce learning.

**DESCRIPTION** Embark on a comprehensive journey into Azure data engineering with “Ultimate Azure Data Engineering”. Starting with foundational topics like SQL and relational database concepts, you'll progress to comparing data engineering practices in Azure versus on-premises environments. Next, you will dive deep into Azure cloud fundamentals, learning how to effectively manage heterogeneous data sources and implement robust Extract, Transform, Load (ETL) concepts using Azure Data Factory, mastering the orchestration of data workflows and pipeline automation. The book then moves to explore advanced database design

strategies and discover best practices for optimizing data performance and ensuring stringent data security measures. You will learn to visualize data insights using Power BI and apply these skills to real-world scenarios. Whether you're aiming to excel in your current role or preparing for Azure data engineering certifications, this book equips you with practical knowledge and hands-on expertise to thrive in the dynamic field of Azure data engineering.

**WHAT WILL YOU LEARN** ● Master the core principles and methodologies that drive data engineering such as data processing, storage, and management techniques. ● Gain a deep understanding of Structured Query Language (SQL) and relational database management systems (RDBMS) for Azure Data Engineering. ● Learn about Azure cloud services for data engineering, such as Azure SQL Database, Azure Data Factory, Azure Synapse Analytics, and Azure Blob Storage. ● Gain proficiency to orchestrate data workflows, schedule data pipelines, and monitor data integration processes across cloud and hybrid environments. ● Design optimized database structures and data models tailored for performance and scalability in

Azure. ● Implement techniques to optimize data performance such as query optimization, caching strategies, and resource utilization monitoring. ● Learn how to visualize data insights effectively using tools like Power BI to create interactive dashboards and derive data-driven insights. ● Equip yourself with the knowledge and skills needed to pass Microsoft Azure data engineering certifications.

**WHO IS THIS BOOK FOR?** This book is tailored for a diverse audience including aspiring and current Azure data engineers, data analysts, and data scientists, along with database and BI developers, administrators, and analysts. It is an invaluable resource for those aiming to obtain Azure data engineering certifications.

**TABLE OF CONTENTS**

1. Introduction to Data Engineering
2. Understanding SQL and RDBMS Concepts
3. Data Engineering: Azure Versus On-Premises
4. Azure Cloud Concepts
5. Working with Heterogenous Data Sources
6. ETL Concepts
7. Database Design and Modeling
8. Performance Best Practices and Data Security
9. Data Visualization and Application in Real World
10. Data Engineering Certification Guide

Index

**Learn Azure Sentinel** Packt Publishing Ltd

When used with the MDX query language, SQL Server Analysis Services allows developers to build full-scale database applications to support such business functions as budgeting, forecasting, and market analysis. Shows readers how to build data warehouses and multi-dimensional databases, query databases, and use Analysis Services and other components of SQL Server to provide end-to-end solutions Revised, updated, and enhanced, the book discusses new features such as improved integration with Office and Excel 2007; query performance enhancements; improvements to aggregation designer, dimension designer, cube and dimension wizards, and cell writeback; extensibility and personalization; data mining; and more

**Predictive Analytics with Microsoft Azure Machine Learning** Apress

Understand how to set up, configure, and use Azure Sentinel to provide security incident and event management services for your environment Key Features Secure your network, infrastructure, data, and applications on Microsoft Azure

effectively Integrate artificial intelligence, threat analysis, and automation for optimal security solutions Investigate possible security breaches and gather forensic evidence to prevent modern cyber threats Book Description Azure Sentinel is a Security Information and Event Management (SIEM) tool developed by Microsoft to integrate cloud security and artificial intelligence (AI). Azure Sentinel not only helps clients identify security issues in their environment, but also uses automation to help resolve these issues. With this book, you'll implement Azure Sentinel and understand how it can help find security incidents in your environment with integrated artificial intelligence, threat analysis, and built-in and community-driven logic. This book starts with an introduction to Azure Sentinel and Log Analytics. You'll get to grips with data collection and management, before learning how to create effective Azure Sentinel queries to detect anomalous behaviors and patterns of activity. As you make progress, you'll understand how to develop solutions that automate the responses required to handle security incidents. Finally, you'll

grasp the latest developments in security, discover techniques to enhance your cloud security architecture, and explore how you can contribute to the security community. By the end of this book, you'll have learned how to implement Azure Sentinel to fit your needs and be able to protect your environment from cyber threats and other security issues. What you will learn Understand how to design and build a security operations center Discover the key components of a cloud security architecture Manage and investigate Azure Sentinel incidents Use playbooks to automate incident responses Understand how to set up Azure Monitor Log Analytics and Azure Sentinel Ingest data into Azure Sentinel from the cloud and on-premises devices Perform threat hunting in Azure Sentinel Who this book is for This book is for solution architects and system administrators who are responsible for implementing new solutions in their infrastructure. Security analysts who need to monitor and provide immediate security solutions or threat hunters looking to learn how to use Azure Sentinel to investigate possible security breaches and gather forensic evidence will also benefit from

this book. Prior experience with cloud security, particularly Azure, is necessary. [Introducing Microsoft SQL Server 2016](#) Packt Publishing Ltd

Predictive Analytics with Microsoft Azure Machine Learning, Second Edition is a practical tutorial introduction to the field of data science and machine learning, with a focus on building and deploying predictive models. The book provides a thorough overview of the Microsoft Azure Machine Learning service released for general availability on February 18th, 2015 with practical guidance for building recommenders, propensity models, and churn and predictive maintenance models. The authors use task oriented descriptions and concrete end-to-end examples to ensure that the reader can immediately begin using this new service. The book describes all aspects of the service from data ingress to applying machine learning, evaluating the models, and deploying them as web services. Learn how you can quickly build and deploy sophisticated predictive models with the new Azure Machine Learning from Microsoft. What's New in the Second Edition? Five new chapters have been added with practical

detailed coverage of: Python Integration – a new feature announced February 2015  
 Data preparation and feature selection  
 Data visualization with Power BI  
 Recommendation engines  
 Selling your models on Azure Marketplace

**Introducing Windows Azure** Microsoft Press  
 Explore and learn the key building blocks of Microsoft Azure services and tools for implementing a disaster-recovery solution of any on-premises or cloud-based application. In this book, you will go through various aspects of planning, designing, and configuring a robust recovery solution on Azure. **Introducing Disaster Recovery with Microsoft Azure** starts by explaining the disaster-recovery landscape and how Azure disaster recovery is different from the traditional approach. You will learn how to leverage Azure site recovery and various Azure-based services to design and implement a recovery solution and much more. Moving forward, you will design and implement various scenarios such as on-premises to Azure, Azure to Azure, and on-premises to on-premises disaster recovery. You will also learn common considerations and

technicalities of implementing recovery solutions for various multi-tier, monolithic, and modern micro-services enterprise applications. Finally, you will go through real-life examples, scenarios, and exercises. After reading this book, you will be able to design and implement disaster recovery on Azure in different scenarios. You will also look at a few real-world scenarios that will provide more practical insights. **What You Will Learn** Discover the fundamental building blocks of disaster recovery on Azure  
 Examine various application-specific considerations for disaster recovery  
 Leverage various PaaS capabilities to achieve maximum benefit  
 Design and implement a multi-regional Azure to Azure disaster recovery plan  
 Who This Book Is For Consultants, architects, and Azure administrators.

**Introducing Disaster Recovery with Microsoft Azure** Apress  
 Explore and work with various Microsoft Azure services for real-time Data Analytics  
**KEY FEATURES** Understand what Azure can do with your data  
 Understanding the analytics services offered by Azure  
 Understand how data can be transformed to generate more data

Understand what is done after a Machine Learning model is built. Go through some Data Analytics real-world use cases. DESCRIPTION Data is the key input for Analytics. Building and implementing data platforms such as Data Lakes, modern Data Marts, and Analytics at scale require the right cloud platform that Azure provides through its services. The book starts by sharing how analytics has evolved and continues to evolve. Following the introduction, you will deep dive into ingestion technologies. You will learn about Data processing services in Azure. You will next learn about what is meant by a Data Lake and understand how Azure Data Lake Storage is used for analytical workloads. You will then learn about critical services that will provide actual Machine Learning capabilities in Azure. The book also talks about Azure Data Catalog for cataloging, Azure AD for Access Management, Web Apps and PowerApps for cloud web applications, Cognitive services for Speech, Vision, Search and Language, Azure VM for computing and Data Science VMs, Functions as serverless computing, Kubernetes and Containers as deployment

options. Towards the end, the book discusses two use cases on Analytics. WHAT WILL YOU LEARN. Explore and work with various Azure services Orchestrate and ingest data using Azure Data Factory Learn how to use Azure Stream Analytics Get to know more about Synapse Analytics and its features Learn how to use Azure Analysis Services and its functionalities WHO THIS BOOK IS FOR This book is for anyone who has basic to intermediate knowledge of cloud and analytics concepts and wants to use Microsoft Azure for Data Analytics. This book will also benefit Data Scientists who want to use Azure for Machine Learning. TABLE OF CONTENTS 1. Data and its power 2. Evolution of Analytics and its Types 3. Internet of Things 4. AI and ML 5. Why cloud 6. What are a data lake and a modern datamart 7. Introduction to Azure services 8. Types of data 9. Azure Data Factory 10. Stream Analytics 11. Azure Data Lake Store and Azure Storage 12. Cosmos DB 13. Synapse Analytics 14. Azure Databricks 15. Azure Analysis Services 16. Power BI 17. Azure Machine Learning 18. Sample Architectures and synergies - Real-Time

and Batch 19. Azure Data Catalog 20. Azure Active Directory 21. Azure Webapps 22. Power apps 23. Time Series Insights 24. Azure Cognitive Services 25. Azure Logicapps 26. Azure VM 27. Azure Functions 28. Azure Containers 29. Azure Kubernetes Service 30. Use Case 1 31. Use Case 2 *Data Modeling for Azure Data Services* Prologika

"This course will introduce students to the Cloud, types of Cloud services, Azure services, and Azure PowerShell. The content provides the pre-requisite knowledge required by all individuals who will be learning Microsoft Azure. Students who are administrators, developers, or database administrators will benefit from learning the fundamentals covered in this course and will be better prepared to take additional Microsoft Azure courses that are generally more advanced."--Resource description page.

[Mastering Azure Analytics](#) Orange Education Pvt Ltd

Microsoft Azure HDInsight is Microsoft's 100 percent compliant distribution of Apache Hadoop on Microsoft Azure. This means that standard Hadoop concepts

and technologies apply, so learning the Hadoop stack helps you learn the HDInsight service. At the time of this writing, HDInsight (version 3.0) uses Hadoop version 2.2 and Hortonworks Data Platform 2.0. In *Introducing Microsoft Azure HDInsight*, we cover what big data really means, how you can use it to your advantage in your company or organization, and one of the services you can use to do that quickly—specifically, Microsoft’s HDInsight service. We start with an overview of big data and Hadoop, but we don’t emphasize only concepts in this book—we want you to jump in and get your hands dirty working with HDInsight in a practical way. To help you learn and even implement HDInsight right away, we focus on a specific use case that applies to almost any organization and demonstrate a process that you can follow along with. We also help you learn more. In the last chapter, we look ahead at the future of HDInsight and give you recommendations for self-learning so that you can dive deeper into important concepts and round out your education on working with big data.

### **Stream Analytics with Microsoft Azure**

#### Microsoft Press

Explore various Azure services to build solutions that leverage effective design patterns. Key Features: Create, deploy, and host cloud applications on Azure. Understand various Azure services that help you host serverless applications. Explore practical examples to help you secure and troubleshoot your cloud environment. Book Description: Azure is one of the leading public cloud service providers. Thanks to a number of Azure service updates, it continues to make advances in the realm of cloud computing. *Learn Microsoft Azure* starts with the fundamentals of cloud computing. You will learn to configure and set up the Azure infrastructure. As you make your way through the book, you'll explore Azure services, along with working on virtual memory systems (VMS) and deployment models. You will understand various services in the Azure ecosystem, such as Azure IoT and Azure Analytics, among others. An easy-to-follow introduction to various cloud design patterns will also add to your efficiency in designing cloud solutions. In the concluding chapters, you'll secure your virtual networks using

Network security groups and configure Azure Active Directory (Azure AD) to set a custom domain name and company profile. By the end of this book, you will have learned to secure and troubleshoot your Azure cloud environment and be fully aware of best practices for Azure cloud administration. What you will learn: Understand the cloud services offered by Azure. Design storage and networks in Azure for your Azure VM. Work with web apps and Azure SQL databases. Build your identity management solutions on Azure using Azure AD. Monitor, protect, and automate your Azure services using Operation Management Suite (OMS). Implement OMS for Azure services. Who this book is for: Learn Microsoft Azure is for administrators, cloud engineers, and developers who want to get started with using Azure as their cloud platform and build cloud-based applications for their enterprises. *Microsoft Azure Essentials - Fundamentals of Azure* BPB Publications. Microsoft Azure Essentials from Microsoft Press is a series of free ebooks designed to help you advance your technical skills with Microsoft Azure. The first ebook in the



series, Microsoft Azure Essentials: Fundamentals of Azure, introduces developers and IT professionals to the wide range of capabilities in Azure. The authors - both Microsoft MVPs in Azure - present both conceptual and how-to content for key areas, including: Azure Websites and Azure Cloud Services Azure Virtual Machines Azure Storage Azure Virtual Networks Databases Azure Active Directory Management tools Business scenarios Watch Microsoft Press's blog and Twitter (@MicrosoftPress) to learn about other free ebooks in the "Microsoft Azure Essentials" series.

#### Introducing Azure Kubernetes Service Apress

Choose the right Azure data service and correct model design for successful implementation of your data model with the help of this hands-on guide Key Features Design a cost-effective, performant, and scalable database in Azure Choose and implement the most suitable design for a database Discover how your database can scale with growing data volumes, concurrent users, and query complexity Book Description Data is at the heart of all applications and forms the

foundation of modern data-driven businesses. With the multitude of data-related use cases and the availability of different data services, choosing the right service and implementing the right design becomes paramount to successful implementation. Data Modeling for Azure Data Services starts with an introduction to databases, entity analysis, and normalizing data. The book then shows you how to design a NoSQL database for optimal performance and scalability and covers how to provision and implement Azure SQL DB, Azure Cosmos DB, and Azure Synapse SQL Pool. As you progress through the chapters, you'll learn about data analytics, Azure Data Lake, and Azure SQL Data Warehouse and explore dimensional modeling, data vault modeling, along with designing and implementing a Data Lake using Azure Storage. You'll also learn how to implement ETL with Azure Data Factory. By the end of this book, you'll have a solid understanding of which Azure data services are the best fit for your model and how to implement the best design for your solution. What you will learn Model relational database using normalization,

dimensional, or Data Vault modeling Provision and implement Azure SQL DB and Azure Synapse SQL Pools Discover how to model a Data Lake and implement it using Azure Storage Model a NoSQL database and provision and implement an Azure Cosmos DB Use Azure Data Factory to implement ETL/ELT processes Create a star schema model using dimensional modeling Who this book is for This book is for business intelligence developers and consultants who work on (modern) cloud data warehousing and design and implement databases. Beginner-level knowledge of cloud data management is expected.

**Designing Distributed Systems** Apress "Unlocking Azure AI" is a comprehensive guide that provides readers with a deep dive into the world of artificial intelligence (AI) on the Microsoft Azure platform. This book serves as a roadmap for individuals looking to explore, understand, and leverage the full potential of Azure AI services to solve real-world problems and drive innovation. With the exponential growth of AI technologies and their increasing integration into various industries and applications, there is a

growing demand for professionals who possess the knowledge and skills to develop, deploy, and manage AI solutions on cloud platforms like Azure. "Unlocking Azure AI" addresses this need by offering a structured and accessible approach to learning Azure AI concepts and services. The book begins by introducing readers to the fundamentals of AI, providing a foundational understanding of key concepts such as machine learning, natural language processing, computer vision, and conversational AI. Readers will learn how AI is transforming industries and reshaping the way businesses operate and interact with customers. As readers progress through the book, they will explore the rich ecosystem of Azure AI services offered by Microsoft, including Azure Cognitive Services, Azure Machine Learning, and Azure Bot Services. Each chapter delves into a specific aspect of Azure AI, covering topics such as: Understanding the capabilities and use cases of Azure Cognitive Services, including vision, speech, language, and decision services. Building and training machine learning models using Azure Machine Learning, from data preparation

and model development to deployment and management. Developing intelligent chatbots and virtual agents using Azure Bot Services to automate customer support and enhance user experiences. The book provides practical guidance, hands-on examples, and real-world case studies to illustrate how Azure AI services can be applied to solve common business challenges across various industries. Readers will learn how to leverage Azure AI to enhance productivity, drive innovation, and gain competitive advantage in today's digital economy. In addition to technical content, "Unlocking Azure AI" also addresses ethical considerations and implications in AI development and deployment, helping readers understand the importance of responsible AI practices and ensuring fairness, transparency, and accountability in AI systems. Whether you're a developer, data scientist, IT professional, or business leader, "Unlocking Azure AI" is your go-to resource for mastering Azure AI and unlocking the full potential of artificial intelligence on the Microsoft Azure platform. With its comprehensive coverage, practical insights, and

actionable advice, this book empowers readers to embark on their Azure AI journey with confidence and competence.

**Hands-on Cloud Analytics with Microsoft Azure Stack** BPB Publications  
Attention all SQL Pros, DAX is not just for writing Excel-based formulas! Get hands-on learning and expert advice on how to use the vast capabilities of the DAX language to solve common data modeling challenges. Beginning DAX with Power BI teaches key concepts such as mapping techniques from SQL to DAX, filtering, grouping, joining, pivoting, and using temporary tables, all aimed at the SQL professional. Join author Philip Seamark as he guides you on a journey through typical business data transformation scenarios and challenges, and teaches you, step-by-step, how to resolve challenges using DAX. Tips, tricks, and shortcuts are included and explained, along with examples of the SQL equivalent, in order to accelerate learning. Examples in the book range from beginner to advanced, with plenty of detailed explanation when walking through each scenario. What You'll Learn Turbocharge your Power BI model by adding advanced DAX programming techniques Know when

to use calculated measures versus calculated columns Generate new tables on the fly from existing data Optimize, monitor, and tune Power BI to improve performance of your models Discover new ideas, tricks, and time-saving techniques for better models Who This Book Is For Business intelligence developers, business analysts, or any SQL user who wants to use Power BI as a reporting tool. A solid understanding of SQL is recommended, as examples throughout the book include the DAX equivalents to SQL problem/solution scenarios.

**Microsoft Azure** "O'Reilly Media, Inc." Data Science and Machine Learning are in high demand, as customers are increasingly looking for ways to glean insights from all their data. More customers now realize that Business Intelligence is not enough as the volume, speed and complexity of data now defy traditional analytics tools. While Business Intelligence addresses descriptive and diagnostic analysis, Data Science unlocks new opportunities through predictive and prescriptive analysis. The purpose of this book is to provide a gentle and instructionally organized introduction to

the field of data science and machine learning, with a focus on building and deploying predictive models. The book also provides a thorough overview of the Microsoft Azure Machine Learning service using task oriented descriptions and concrete end-to-end examples, sufficient to ensure the reader can immediately begin using this important new service. It describes all aspects of the service from data ingress to applying machine learning and evaluating the resulting model, to deploying the resulting model as a machine learning web service. Finally, this book attempts to have minimal dependencies, so that you can fairly easily pick and choose chapters to read. When dependencies do exist, they are listed at the start and end of the chapter. The simplicity of this new service from Microsoft will help to take Data Science and Machine Learning to a much broader audience than existing products in this space. Learn how you can quickly build and deploy sophisticated predictive models as machine learning web services with the new Azure Machine Learning service from Microsoft.

[Microsoft Azure AI: A Beginner's Guide](#) BPB

Publications

Explore Azure AI Platform KEY FEATURES

- Easy-to-follow tutorial for getting started with the Azure AI platform.
- Integrated platform for developing, deploying, and managing AI apps.
- Includes real-world scenarios and use-cases to fully explore Azure AI Platform.

DESCRIPTION Microsoft Azure AI A Beginner's Guide explains the fundamentals of Azure AI and some more advanced topics. The sole objective of the book is to provide hands-on experience working with the various services, APIs, and tools available in the Azure AI Platform. This book begins by discussing the fundamentals of the Azure AI platform and the essential principles behind the Azure AI ecosystem and services. Readers will become familiar with the essential services, use cases, and examples provided by Azure AI Platform and Services, including Azure Cognitive Services, Azure Computer Vision, Azure Applied AI Services, and Azure Machine Learning. The author focuses on teaching how to utilize Azure Cognitive services to construct intelligent apps, including Image Processing, Object Detection, Text Recognition, OCR, Spatial Analysis, and

Face Recognition using Computer Vision. Readers can investigate Azure Applied AI Services, including Form Recognizer, Metrics Advisor, Cognitive Search, Immersive Reader, Video Analyzer, and Azure Bot Service. Bot Framework and the Bot Framework Emulator will be explored in further detail, and how they can be used in AI applications to improve their conversational user interfaces. With Azure Machine Learning Studio, you will also learn to incorporate machine learning into your enterprise-level applications. WHAT YOU WILL LEARN ● Get familiar with Azure AI Platform and the cognitive capabilities of Azure. ● Learn to create apps that can process photos, detect faces, and detect objects. ● Utilize OCR, handwriting recognition, and spatial analysis in your development. ● Learn about Azure AI services like Form Recognizer, Metrics Advisor, Cognitive Search, Azure Immersive Reader, and Video Analyzer. ● Try out several NLP applications with the Azure BOT framework. WHO THIS BOOK IS FOR This book teaches AI developers, machine learning engineers, .NET developers, and architects how to swiftly develop intelligent applications utilizing

the Azure AI Platform. Knowledge of .NET or .NET Core is strongly advised to get the most out of the book. TABLE OF CONTENTS 1 .Azure AI Platform and Services 2. Azure Computer Vision - Image Analysis, Processing, Content Moderation, Object and Face Detection 3. Computer Vision - Text Recognition, Optical Character Recognition, Spatial Analysis 4. Azure Cognitive Services - Custom Applications leveraging Decision, Language, Speech, Web Search 5. Azure Applied AI Services 6. Azure Applied AI Services -BOTS- A Brief Introduction 7. Machine Learning-Infusing ML in Custom Applications using ML.NET 8. Machine Learning - Using Azure ML Studio **Mastering Azure Synapse Analytics** Apress Master all the important and tough decision-making aspects involved in architecting an Azure public cloud for your organization. Key Features Deploy Azure Active Directory and implement synchronization Manage storage solutions with Azure network services Implement Azure cloud based on organizational requirements Book Description Microsoft Azure has numerous effective solutions

that shape the future of any business. Over the years, Azure cloud services have grown quickly, and the number of organizations adopting Azure for their cloud services is also gradually increasing. Leading industry giants are finding that Azure fulfills their extensive cloud requirements. Deploying Azure Solutions starts with an extensive introduction to all the categories of designs available with Azure. These design patterns focus on different aspects of the cloud such as high availability, data management, and so on. You will learn various aspects such as building your cloud structure and architecture. You will also have a brief understanding of the different types of services provided by Azure, such as Azure functions and Azure Analytics, which can prove beneficial for an organization. You will learn each and every aspect and function required to develop an Azure cloud based on your organizational requirements. By the end of this Learning Path, you will be able to develop a full-fledged Azure cloud as well as implement Azure solutions such as networking, storage, and cloud effectively. This Learning Path includes content from the

following Packt products: Implementing Azure Solutions by Florian Klaffenbach, Jan-Henrik Damaschke, Oliver Michalski Azure for Architects by Ritesh Modi What you will learn Implement routing and network devices Understand the working of different storage accounts in Azure Plan, deploy, and secure virtual machines Deploy and manage Azure Containers Familiarize yourself with the components of the Azure Cloud platform Use enterprise security guidelines for your Azure deployment Design and implement Serverless solutions Understand cloud architecture and the deployment pipeline Who this book is for Deploying Azure Solutions is for IT architects, system and network admins, and DevOps engineers who are aware of Azure solutions and want to implement them for their organization. Prior basic knowledge of the Azure Cloud platform is good to have.

*Predictive Analytics with Microsoft Azure Machine Learning 2nd Edition* Packt Publishing Ltd

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) [Beginning DAX with Power BI](#) Packt Publishing Ltd Accelerate hybrid cloud innovation using Azure Arc with the help of real-world

scenarios and examples Key Features Get to grips with setting up and working with Azure Arc Harness the power of Azure Arc and its integration with cutting-edge technologies such as Kubernetes and PaaS data services Manage, govern, and monitor your on-premises servers and applications with Azure Book Description With all the options available for deploying infrastructure on multi-cloud platforms and on-premises comes the complexity of managing it, which is adeptly handled by Azure Arc. This book will show you how you can manage environments across platforms without having to migrate workloads from on-premises or multi-cloud to Azure every time. Implementing Hybrid Cloud with Azure Arc starts with an introduction to Azure Arc and hybrid cloud computing, covering use cases and various supported topologies. You'll learn to set up Windows and Linux servers as Arc-enabled machines and get to grips with deploying applications on Kubernetes clusters with Azure Arc and GitOps. The book then demonstrates how to onboard an on-premises SQL Server infrastructure as an Arc-enabled SQL Server and deploy and manage a hyperscale PostgreSQL

infrastructure on-premises through Azure Arc. Along with deployment, the book also covers security, backup, migration, and data distribution aspects. Finally, it shows you how to deploy and manage Azure's data services on your own private cloud and explore multi-cloud solutions with Azure Arc. By the end of this book, you'll have a firm understanding of Azure Arc and how it interacts with various cutting-edge technologies such as Kubernetes and

PaaS data services. What you will learn  
Set up a fully functioning Azure Arc-managed environment  
Explore products and services from Azure that will help you to leverage Azure Arc  
Understand the new vision of working with on-premises infrastructure  
Deploy Azure's PaaS data services on-premises or on other cloud platforms  
Discover and learn about the technologies required to design a hybrid

and multi-cloud strategy  
Implement best practices to govern your IT infrastructure in a scalable model  
Who this book is for  
This book is for Cloud IT professionals (Azure and/or AWS), system administrators, database administrators (DBAs), and architects looking to gain clarity about how Azure Arc works and how it can help them achieve business value. Anyone with basic Azure knowledge will benefit from this book.

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