Azure Data And Ai Architect Handbook

Radhakrishnan Arikrishna Perumal

Azure Data and AI Architect Handbook Olivier Mertens,Breght Van Baelen,2023-07-31 Master core data architecture design concepts and Azure Data & AI services to gain a cloud data and AI architect's perspective to developing end-to-end solutions Purchase of the print or Kindle book includes a free PDF eBook Key Features Translate and implement conceptual architectures with the right Azure services Inject artificial intelligence into data solutions for advanced analytics Leverage cloud computing and frameworks to drive data science workloads Book DescriptionWith data's growing importance in businesses, the need for cloud data and AI architects has never been higher. The Azure Data and AI Architect Handbook is designed to assist any data professional or academic looking to advance their cloud data platform designing skills. This book will help you understand all the individual components of an end-to-end data architecture and how to piece them together into a scalable and robust solution. You'll begin by getting to grips with core data architecture design concepts and Azure Data & AI services, before exploring cloud landing zones and best practices for building up an enterprise-scale data platform from scratch. Next, you'll take a deep dive into various data domains such as data engineering, business intelligence, data science, and data governance. As you advance, you'll cover topics ranging from learning different methods of ingesting data into the cloud to designing the right data warehousing solution, managing large-scale data transformations, extracting valuable insights, and learning how to leverage cloud computing to drive advanced analytical workloads. Finally, you'll discover how to add data governance, compliance, and security to solutions. By the end of this book, you'll have gained the expertise needed to become a well-rounded Azure Data & AI architect.What you will learn Design scalable and cost-effective cloud data platforms on Microsoft Azure Explore architectural design patterns with various use cases Determine the right data stores and data warehouse solutions Discover best practices for data orchestration and transformation Help end users to visualize data using interactive dashboarding Leverage OpenAI and custom ML models for advanced analytics Manage security, compliance, and governance for the data estate Who this book is forThis book is for anyone looking to elevate their skill set to the level of an architect. Data engineers, data scientists, business intelligence developers, and database administrators who want to learn how to design end-to-end data solutions and get a bird's-eye view of the entire data platform will find this book useful. Although not required, basic knowledge of databases and data engineering workloads is recommended.

Azure Data and AI Architect Handbook Olivier Mertens,Breght van Baelen,2023-07-31 Master core data architecture design concepts and Azure Data & AI services to gain a cloud data and AI architect's perspective to developing end-to-end solutions Purchase of the print or Kindle book includes a free PDF eBook Key Features: Translate and implement conceptual architectures with the right Azure services Inject artificial intelligence into data solutions for advanced analytics Leverage cloud computing and frameworks to drive data science workloads Book Description: With data's growing importance in businesses, the need for cloud data and AI architects has never been higher. The Azure Data and AI Architect Handbook is designed to assist any data professional or academic looking to advance their cloud data platform designing skills. This book will help you understand all the individual components of an end-to-end data architecture and how to piece them together into a scalable and robust solution. You'll begin by getting to grips with core data architecture design concepts and Azure Data & AI services, before exploring cloud landing zones and best practices for building up an enterprise-scale data platform from scratch. Next, you'll take a deep dive into various data domains such as data engineering, business intelligence, data science, and data governance. As you advance, you'll cover topics ranging from learning different methods of ingesting data into the cloud to designing the right data warehousing solution, managing large-scale data transformations, extracting valuable insights, and learning how to leverage cloud computing to drive advanced analytical workloads. Finally, you'll discover how to add data governance, compliance, and security to solutions. By the end of this book, you'll have gained the expertise needed to become a well-rounded Azure Data & AI architect. What You Will Learn: Design scalable and cost-effective cloud data platforms on Microsoft Azure Explore architectural design patterns with various use cases Determine the right data stores and data warehouse solutions Discover best practices for data orchestration and transformation Help end users to visualize data using interactive dashboarding Leverage OpenAI and custom ML models for advanced analytics Manage security, compliance, and governance for the data estate Who this book is for: This book is for anyone looking to elevate their skill set to the level of an architect. Data engineers, data scientists, business intelligence developers, and database administrators who want to learn how to design end-to-end data solutions and get a bird's-eye view of the entire data platform will find this book useful. Although not required, basic knowledge of databases and data engineering workloads is recommended.

Microsoft Power Platform Solutions Architect's Handbook Hugo Herrera,2025-10-24 Master modern solution architecture with this expert guide that integrates Dataverse with cutting-edge AI solutions while covering DevOps, data modeling, and PL-600 certification preparation Get your book with a free PDF, AI Assistant, and Next-Gen Reader Key Features Leverage Azure, Open AI, Copilot, and modern architecture patterns to build intelligent, high-impact business solutions Apply enterprise-grade architecture with the latest ALM, DevOps, and Center of Excellence practices Fast-track your success in the PL-600 certification exam with revised questions and expert insights Book DescriptionStruggling to architect secure, scalable

Power Platform solutions that keep up with AI and enterprise demands? Microsoft Power Platform Solutions Architect's Handbook is your expert guide to building intelligent, future-ready applications with Microsoft's low-code platform. This updated second edition brings you the latest on Copilot, Azure OpenAI, AI Builder, and Power Platform AI patterns. Through a hands-on enterprise case study, you'll work through every stage of solution architecture, from requirements analysis and envisioning to secure data modeling, integration, governance, and DevOps implementation. You'll tackle real-world challenges such as licensing constraints, ALM pipeline design, multi-cloud integration, and establishing a Center of Excellence. A refreshed PL-600 certification prep chapter with current questions and exam tips will help you gear up for the exam. By the end of this book, you'll have the mindset, tools, and strategies to design scalable, AI-enhanced Power Platform solutions while using the latest in LLM and GPT technologies. Whether modernizing legacy systems or architecting cloud-native applications, this book equips you to lead digital transformation initiatives with enterprise-grade excellence.What you will learn Design scalable Power Platform solutions with AI and Copilot Architect secure, scalable, and supportable enterprise-grade applications Master requirements capture, fit gap analysis, and solution-envisioning methodologies Design robust integrations using Azure and third-party APIs Leverage Azure OpenAI and AI Builder for intelligent automation Build reusable Dataverse data models using best practices Deploy solutions using Power Platform pipelines and Azure DevOps Establish and scale a Center of Excellence for long-term platform success Who this book is for This book is for solution architects, enterprise architects, technical consultants, and business and system analysts who implement, optimize, and architect Power Platform and Dataverse solutions. It's also useful for anyone leading digital transformation projects that leverage Power Platform apps and the Microsoft business apps ecosystem. A strong understanding of Power Platform configuration and administration, Power Automate processes, Power Apps Portals, Canvas Apps, Dataverse Plugins, and Workflow Capabilities is expected.

The Azure AI Architect Handbook Dilip Kumar Mondal,2025-10-14 In the age of intelligent cloud and edge computing, the role of an AI Architect is rapidly evolving. This handbook is your definitive guide to mastering the skills, tools, and frameworks needed to thrive in this dynamic field - with a special focus on the Azure ecosystem. Whether you're a data scientist, software engineer, cloud architect, or aspiring AI professional, this book equips you with the practical knowledge to design, build, and scale intelligent systems using Azure AI services. From foundational data science and machine learning to cutting-edge Generative AI and Agentic AI systems, you'll explore the full spectrum of technologies that power modern AI solutions. What You'll Learn: The essential Python libraries for data science, deep learning, and LLMs Architecting scalable ML and GenAI solutions on Azure Building agentic AI systems using LangChain, Azure OpenAI, and orchestration frameworks Leveraging vector databases, distributed computing, and MLOps pipelines Designing secure, API-driven microservices and integrating DevOps/DevSecOps practices Real-world use cases, design patterns, and career strategies to

accelerate your journey Who This Book Is For: AI Engineers and Architects working in cloud-native environments Data Scientists and ML Engineers transitioning to Azure Technical leaders and consultants building enterprise-grade AI solutions Students and professionals seeking a fast-track into the AI architecture domain This handbook is not just a technical guide - it's a career accelerator. With hands-on insights, curated tools, and architectural blueprints, you'll be ready to lead the next wave of AI innovation on Azure.

Architecting IoT Solutions on Azure Blaize Stewart,2024-01-09 How can you make sense of the complex IoT landscape? With dozens of components ranging from devices to metadata about the devices, it's easy to get lost among the possibilities. But it's not impossible if you have the right guide to help you navigate all the complexities. This practical book shows developers, architects, and IT managers how to build IoT solutions on Azure. Author Blaize Stewart presents a comprehensive view of the IoT landscape. You'll learn about devices, device management at scale, and the tools Azure provides for building globally distributed systems. You'll also explore ways to organize data by choosing the appropriate dataflow and data storage technologies. The final chapters examine data consumption and solutions for delivering data to consumers with Azure. Get the architectural guidance you need to create holistic solutions with devices, data, and everything in between. This book helps you: Meet the demands of an IoT solution with Azure-provided functionality Use Azure to create complete scalable and secure IoT systems Understand how to articulate IoT architecture and solutions Guide conversations around common problems that IoT applications solve Select the appropriate technologies in the Azure space to build IoT applications

Big Data Architect's Handbook Syed Muhammad Fahad Akhtar,2018-06-21 A comprehensive end-to-end guide that gives hands-on practice in big data and Artificial Intelligence Key Features Learn to build and run a big data application with sample code Explore examples to implement activities that a big data architect performs Use Machine Learning and AI for structured and unstructured data Book Description The big data architects are the "masters" of data, and hold high value in today's market. Handling big data, be it of good or bad quality, is not an easy task. The prime job for any big data architect is to build an end-to-end big data solution that integrates data from different sources and analyzes it to find useful, hidden insights. Big Data Architect's Handbook takes you through developing a complete, end-to-end big data pipeline, which will lay the foundation for you and provide the necessary knowledge required to be an architect in big data. Right from understanding the design considerations to implementing a solid, efficient, and scalable data pipeline, this book walks you through all the essential aspects of big data. It also gives you an overview of how you can leverage the power of various big data tools such as Apache Hadoop and ElasticSearch in order to bring them together and build an efficient big data solution. By the end of this book, you will be able to build your own design system which integrates, maintains, visualizes, and monitors your data. In addition, you will have a smooth design flow in each process, putting insights in action. What you will

learn Learn Hadoop Ecosystem and Apache projects Understand, compare NoSQL database and essential software architecture Cloud infrastructure design considerations for big data Explore application scenario of big data tools for daily activities Learn to analyze and visualize results to uncover valuable insights Build and run a big data application with sample code from end to end Apply Machine Learning and AI to perform big data intelligence Practice the daily activities performed by big data architects Who this book is for Big Data Architect's Handbook is for you if you are an aspiring data professional, developer, or IT enthusiast who aims to be an all-round architect in big data. This book is your one-stop solution to enhance your knowledge and carry out easy to complex activities required to become a big data architect.

Modern Data Architecture on Azure Sagar Lad,2023-11-08 This book is an exhaustive guide to designing and implementing data solutions on Azure. It covers the process of managing data from end to end, starting from data collection all the way through transformation, distribution, and consumption. Modern Data Architecture on Azure begins with an introduction to the fundaments of data management, followed by a demonstration of how to build relational and non-relational data solutions on Azure. Here, you will learn data processing for complex analysis and how to work with CSV and JSON files. Moving forward, you will learn the foundational concepts of big data architecture, along with data management patterns and technology options offered by Azure. From there, you'll be walked through the data architecture process, including data consortium on Azure, enterprise data governance, and much more. The book culminates with a deep dive into data architecture frameworks with data modeling. After reading this book, you will have a thorough understanding of data design and analytics using Azure, allowing you to collect and analyze massive amounts of data to optimize business performance, forecast future results, and more. What Will You Learn Understand the fundamentals of data architecture including data management, data handling ethics, data governance, and metadata management Analyze and understand business needs to choose the right Azure services and make informed business decisions Understand Azure Cloud Data design patterns for relational and non-relational data, batch real-time processing, and ETL/ELT pipelines Modernize data architecture using Azure to leverage data and AI to enable digital transformation by securing and optimizing overall data lifecycle management Who Is This Book For: Data solution architects, data engineers, and IT consultants who want to gain a better understanding of modern data architecture design and implementation on Azure.

Practical Guide to Azure Cognitive Services Chris Seferlis,Christopher Nellis,Andy Roberts,2023-05-12 Streamline your complex processes and optimize your organization's operational efficiency, cost-effectiveness, and customer experience by unlocking the potential of Microsoft Azure Cognitive Services and OpenAI Purchase of the print or Kindle book includes a free PDF eBook Key Features Minimize costs and maximize operations by automating mundane activities using AI tools Ideate solutions using real-world examples for manufacturing process improvement with AI Master TCO and ROI analysis for implementing AI solutions, automating operations, and ideating innovative manufacturing solutions with real-world examples

Book Description Azure Cognitive Services and OpenAI are a set of pre-built artificial intelligence (AI) solution APIs that can be leveraged from existing applications, allowing customers to take advantage of Microsoft's award-winning Vision, Speech, Text, Decision, and GPT-4 AI capabilities. With Practical Guide to Azure Cognitive Services, you'll work through industry-specific examples of implementations to get a head-start in your production journey. You'll begin with an overview of the categorization of Azure Cognitive Services and the benefits of embracing AI solutions for practical business applications. After that, you'll explore the benefits of using Azure Cognitive Services to optimize efficiency and improve predictive capabilities. Then, you'll learn how to leverage Vision capabilities for quality control, Form Recognizer to streamline supply chain nuances, language understanding to improve customer service, and Cognitive Search for next-generation knowledge-mining solutions. By the end of this book, you'll be able to implement various Cognitive Services solutions that will help you enhance efficiency, reduce costs, and improve the customer experience at your organization. You'll also be well equipped to automate mundane tasks by reaping the full potential of OpenAI. What you will learn Master cost-effective deployment of Azure Cognitive Services Develop proven solutions from an architecture and development standpoint Understand how Cognitive Services are deployed and customized Evaluate various uses of Cognitive Services with different mediums Disseminate Azure costs for Cognitive Services workloads smoothly Deploy next-generation Knowledge Mining solutions with Cognitive Search Explore the current and future journey of OpenAI Understand the value proposition of different AI projects Who this book is for This book is for data scientists, technology leaders, and software engineers looking to implement Azure Cognitive Services with the help of sample use cases derived from success stories. Experience with Python as well as an overall understanding of the Azure Portal with related services such as Azure Data Lake Storage and Azure Functions will help you make the most of this book.

    Essential Solutions Architect's Handbook Bikramjit Debnath,2025-04-30 DESCRIPTION In an era where cloud computing, AI, and automation are reshaping industries, this book offers a comprehensive guide for IT professionals seeking to master modern software architecture. It will help bridge the gap between technical expertise and strategic leadership, empowering developers and mid-career professionals to stay ahead in an AI-driven, cloud-first world. Structured into six categories, this book covers key areas such as cloud foundations and migration, modern application development, and AI and advanced technologies. Readers will learn strategies for seamless cloud migration, microservices, serverless computing, and real-time data processing. This book will also provide insights into AI architecture, MLOps, and cloud data warehousing. The book's focus on infrastructure automation, observability, and FinOps ensures operational efficiency while preparing you for future technological trends like hybrid/multi-cloud strategies, quantum computing, and sustainable IT practices. After reading this book, readers will have gained practical skills in cloud architecture, AI deployment, and data-driven decision-making. With strategic insights and industry best practices, they will be well-equipped to take on leadership roles such as solution

architect, enterprise architect, or CTO, driving innovation and shaping the future of technology in their organizations. WHAT YOU WILL LEARN ● Understand solution architecture principles and design scalable solutions. ● Learn cloud migration strategies, including data center and application assessments. ● Explore modern application design practices like microservices and serverless. ● Master data management, governance, and real-time data processing techniques. ● Gain insights into generative AI, AI operationalization, and MLOps. ● Automate infrastructure with IaC, observability, and site reliability engineering. WHO THIS BOOK IS FOR This book is designed for experienced cloud engineers, cloud developers, systems administrators, and solutions architects who aim to expand their expertise toward a CTO-level understanding. It is perfect for professionals with intermediate to advanced knowledge of cloud technologies, systems architecture, and programming, seeking to elevate their strategic and technical skills. TABLE OF CONTENTS 1. Introduction to Solution Architecture 2. Cloud Migration Essentials 3. Operational Excellence in Cloud 4. Modern Application Architecture 5. Development Practices and Tools 6. Data Architecture and Processing 7. Data Strategy and Governance 8. Advanced Analytics 9. Generative AI and Machine Learning 10. Automation and Infra Management 11. FinOps Foundations 12. Security, Privacy, and Ethics 13. Innovation and Future Technologies 14. CTO's Playbook for Transformation APPENDIX: Additional Resources for Further Learning

Azure Architecture Unleashed: Design, Secure, and Optimize Cloud Solutions Radhakrishnan Arikrishna Perumal,2024-11-29 Master the Art of Designing, Securing, and Optimizing Cloud Solutions on Microsoft Azure In a world rapidly transforming through digital innovation, cloud architects are at the forefront of building resilient, secure, and scalable systems. Azure Architecture Unleashed is your ultimate guide to mastering Microsoft Azure—designed for both aspiring engineers and experienced architects seeking clarity, depth, and practical insight. This book distills over two decades of hands-on experience into a comprehensive guide that covers everything from foundational concepts to cutting-edge cloud design patterns. Whether you're preparing for an Azure interview, planning a cloud migration, or leading enterprise-grade architecture, this book equips you with the confidence and knowledge to excel. What You'll Learn: Core Azure infrastructure: Regions, Availability Zones, VNets, Virtual Machines, Load Balancers, App Services Advanced compute services: Kubernetes (AKS), Azure Container Apps, Service Fabric Identity and security: Azure Active Directory, PIM, Conditional Access, Key Vault, Zero Trust Integration and messaging: Azure Service Bus, Event Grid, Logic Apps, API Management Databases and analytics: Cosmos DB, SQL Database, Data Lake, Synapse Analytics DevOps and automation: Azure DevOps, GitHub Actions, Terraform, CI/CD pipelines Cost optimization and FinOps strategies for cloud budgeting and scaling Real-world architectures and scenario-based Q&A Azure governance, compliance, policy enforcement, and Microsoft Purview Modern patterns: Multi-tenant SaaS, Microservices, Hybrid & Edge Computing Each chapter includes practical best practices, architectural considerations, and real-world use cases, helping you bridge the gap between theory

and implementation. ⬛⬛ Who Should Read This Book? Cloud Engineers who want to deepen their understanding of Azure services Solution Architects looking for secure, scalable cloud design frameworks Security Architects focusing on threat modeling, compliance, and governance DevOps Professionals implementing CI/CD, Infrastructure-as-Code, and automation Interview Candidates preparing for Azure solution architect or security architect roles IT Leaders and Managers aiming to modernize legacy systems and ensure cloud ROI ⬛ Why This Book Stands Out Covers both fundamental services and advanced architectural strategies Includes scenario-based Q&A, real-world case studies, and design decisions Follows Microsoft's Well-Architected Framework and industry best practices Stays up to date with the latest Azure services, including Defender for Cloud, Azure Arc, AI & analytics, and hybrid strategies Written by an industry-recognized Principal Azure Architect and published author with global experience ⬛ About the Author Radhakrishnan Arikrishna Perumal is a Principal Architect, cloud thought leader, and published researcher with over 20 years of experience designing enterprise systems across cloud, AI, and security domains. He has authored several technical books and research papers, some of which are cited by international scholars and institutions. A recognized mentor and innovator, his work continues to inspire and empower engineers worldwide.

Azure Internet of Things Revealed Robert Stackowiak,2019-11-09 Design, build, and justify an optimal Microsoft IoT footprint to meet your project needs. This book describes common Internet of Things components and architecture and then focuses on Microsoft's Azure components relevant in deploying these solutions. Microsoft-specific topics addressed include: deploying edge devices and pushing intelligence to the edge; connecting IoT devices to Azure and landing data there, applying Azure Machine Learning, analytics, and Cognitive Services; roles for Microsoft solution accelerators and managed solutions; and integration of the Azure footprint with legacy infrastructure. The book concludes with a discussion of best practices in defining and developing solutions and creating a plan for success. What You Will Learn Design the right IoT architecture to deliver solutions for a variety of project needs Connect IoT devices to Azure for data collection and delivery of services Use Azure Machine Learning and Cognitive Services to deliver intelligence in cloud-based solutions and at the edge Understand the benefits and tradeoffs of Microsoft's solution accelerators and managed solutions Investigate new use cases that are described and apply best practices in deployment strategies Integrate cutting-edge Azure deployments with existing legacy data sources Who This Book Is For Developers and architects new to IoT projects or new to Microsoft Azure IoT components as well as readers interested in best practices used in architecting IoT solutions that utilize the Azure platform

Microsoft Azure AI: A Beginner's Guide Rekha Kodali,Sankara Narayanan Govindarajulu,Mohammed Athaulla,2022-04-21 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

Generative AI with Microsoft Azure – Practical Handbook Anand Vemula, Generative AI with Microsoft Azure is a comprehensive guide that explores the integration of generative artificial intelligence (AI) with Azure's robust platform, highlighting the transformative potential of AI across various industries. The book is structured into five key parts, each delving into different aspects of generative AI and its applications on Azure. **Part I: Introduction to Generative AI and Microsoft Azure** provides a foundational understanding of generative AI, including its definitions, applications, and the different models like GANs, VAEs, and Transformers. It also introduces Microsoft Azure, guiding readers through setting up an Azure account, and exploring Azure AI and machine learning services. **Part II: Generative Models on Azure** dives into the implementation of specific generative models on Azure. It covers setting up and training Generative Adversarial

Networks (GANs), building and deploying Variational Autoencoders (VAEs), and implementing advanced language models like GPT and BERT. This section emphasizes the practical steps and Azure tools necessary for working with these models. **Part III: Advanced Topics and Use Cases** explores specialized applications of generative AI, such as image and video generation, natural language generation (NLG), and conversational agents. It showcases real-world use cases and how Azure services, like Cognitive Services and Bot Service, enhance these applications, offering insights into their implementation and impact. **Part IV: Deployment and Scaling** focuses on the practicalities of deploying generative AI models on Azure. It discusses best practices for deployment, the use of Azure Kubernetes Service (AKS) for container orchestration, and techniques for monitoring and managing models. The section also covers strategies for scaling AI solutions effectively using Azure's infrastructure, with an emphasis on cost management and optimization. **Part V: Case Studies and Future Trends** presents industry-specific case studies demonstrating the application of generative AI in healthcare, finance, and creative industries. It concludes with a forward-looking perspective on emerging technologies, ethical considerations, and the future trajectory of generative AI on Azure, highlighting the importance of responsible AI practices. Overall, Generative AI with Microsoft Azure serves as an essential resource for professionals and enthusiasts looking to leverage Azure's capabilities to harness the power of generative AI, offering practical guidance, real-world applications, and insights into future advancements.

Microsoft Azure AI Fundamentals AI-900 Exam Guide Aaron Guilmette,Steve Miles,2024-05-31 The AI-900 exam helps you take your first step into an AI-shaped future. Regardless of your technical background, this book will help you test your understanding of the key AI-related topics and tools used to develop AI solutions in Azure cloud. This exam guide focuses on AI workloads, including natural language processing (NLP) and large language models (LLMs). You'll explore Microsoft's responsible AI principles like safety and accountability. Then, you'll cover the basics of machine learning (ML), including classification and deep learning, and learn how to use training and validation datasets with Azure ML. Using Azure AI Vision, face detection, and Video Indexer services, you'll get up to speed with computer vision-related topics like image classification, object detection, and facial detection. Later chapters cover NLP features such as key phrase extraction, sentiment analysis, and speech processing using Azure AI Language, speech, and translator services. The book also guides you through identifying GenAI models and leveraging Azure OpenAI Service for content generation. At the end of each chapter, you'll find chapter review questions with answers, provided as an online resource. By the end of this exam guide, you'll be able to work with AI solutions in Azure and pass the AI-900 exam using the online exam prep resources.

The Azure Cloud Native Architecture Mapbook Stephane Eyskens,Ed Price,2021-02-17 Improve your Azure architecture practice and set out on a cloud and cloud-native journey with this Azure cloud native architecture guide Key FeaturesDiscover the key drivers of successful Azure architectureImplement architecture maps as a compass to tackle any

challengeUnderstand architecture maps in detail with the help of practical use casesBook Description Azure offers a wide range of services that enable a million ways to architect your solutions. Complete with original maps and expert analysis, this book will help you to explore Azure and choose the best solutions for your unique requirements. Starting with the key aspects of architecture, this book shows you how to map different architectural perspectives and covers a variety of use cases for each architectural discipline. You'll get acquainted with the basic cloud vocabulary and learn which strategic aspects to consider for a successful cloud journey. As you advance through the chapters, you'll understand technical considerations from the perspective of a solutions architect. You'll then explore infrastructure aspects, such as network, disaster recovery, and high availability, and leverage Infrastructure as Code (IaC) through ARM templates, Bicep, and Terraform. The book also guides you through cloud design patterns, distributed architecture, and ecosystem solutions, such as Dapr, from an application architect's perspective. You'll work with both traditional (ETL and OLAP) and modern data practices (big data and advanced analytics) in the cloud and finally get to grips with cloud native security. By the end of this book, you'll have picked up best practices and more rounded knowledge of the different architectural perspectives. What you will learnGain overarching architectural knowledge of the Microsoft Azure cloud platformExplore the possibilities of building a full Azure solution by considering different architectural perspectivesImplement best practices for architecting and deploying Azure infrastructureReview different patterns for building a distributed application with ecosystem frameworks and solutionsGet to grips with cloud-native concepts using containerized workloadsWork with AKS (Azure Kubernetes Service) and use it with service mesh technologies to design a microservices hosting platformWho this book is for This book is for aspiring Azure Architects or anyone who specializes in security, infrastructure, data, and application architecture. If you are a developer or infrastructure engineer looking to enhance your Azure knowledge, you'll find this book useful.

Solutions Architect's Handbook Saurabh Shrivastava,Neelanjali Srivastav,2022-01-17 Third edition out now with coverage on Generative AI, clean architecture, edge computing, and more Key Features Turn business needs into end-to-end technical architectures with this practical guide Assess and overcome various challenges while updating or modernizing legacy applications Future-proof your architecture with IoT, machine learning, and quantum computing Book DescriptionBecoming a solutions architect requires a hands-on approach, and this edition of the Solutions Architect's Handbook brings exactly that. This handbook will teach you how to create robust, scalable, and fault-tolerant solutions and next-generation architecture designs in a cloud environment. It will also help you build effective product strategies for your business and implement them from start to finish. This new edition features additional chapters on disruptive technologies, such as Internet of Things (IoT), quantum computing, data engineering, and machine learning. It also includes updated discussions on cloud-native architecture, blockchain data storage, and mainframe modernization with public cloud. The Solutions Architect's Handbook provides an understanding of solution architecture and how it fits into an agile enterprise

environment. It will take you through the journey of solution architecture design by providing detailed knowledge of design pillars, advanced design patterns, anti-patterns, and the cloud-native aspects of modern software design. By the end of this handbook, you'll have learned the techniques needed to create efficient architecture designs that meet your business requirements.What you will learn Explore the various roles of a solutions architect in the enterprise landscape Implement key design principles and patterns to build high-performance cost-effective solutions Choose the best strategies to secure your architectures and increase their availability Modernize legacy applications with the help of cloud integration Understand how big data processing, machine learning, and IoT fit into modern architecture Integrate a DevOps mindset to promote collaboration, increase operational efficiency, and streamline production Who this book is for This book is for software developers, system engineers, DevOps engineers, architects, and team leaders who already work in the IT industry and aspire to become solutions architect professionals. Existing solutions architects who want to expand their skillset or get a better understanding of new technologies will also learn valuable new skills. To get started, you'll need a good understanding of the real-world software development process and general programming experience in any language.

Data Lake Analytics on Microsoft Azure Harsh Chawla,Pankaj Khattar,2020-11-15 Get a 360-degree view of how the journey of data analytics solutions has evolved from monolithic data stores and enterprise data warehouses to data lakes and modern data warehouses. You will This book includes comprehensive coverage of how: To architect data lake analytics solutions by choosing suitable technologies available on Microsoft Azure The advent of microservices applications covering ecommerce or modern solutions built on IoT and how real-time streaming data has completely disrupted this ecosystem These data analytics solutions have been transformed from solely understanding the trends from historical data to building predictions by infusing machine learning technologies into the solutions Data platform professionals who have been working on relational data stores, non-relational data stores, and big data technologies will find the content in this book useful. The book also can help you start your journey into the data engineer world as it provides an overview of advanced data analytics and touches on data science concepts and various artificial intelligence and machine learning technologies available on Microsoft Azure. What Will You Learn You will understand the: Concepts of data lake analytics, the modern data warehouse, and advanced data analytics Architecture patterns of the modern data warehouse and advanced data analytics solutions Phases—such as Data Ingestion, Store, Prep and Train, and Model and Serve—of data analytics solutions and technology choices available on Azure under each phase In-depth coverage of real-time and batch mode data analytics solutions architecture Various managed services available on Azure such as Synapse analytics, event hubs, Stream analytics, CosmosDB, and managed Hadoop services such as Databricks and HDInsight Who This Book Is For Data platform professionals, database architects, engineers, and solution architects

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