Azure

Iain Foulds

Implementing Hybrid Cloud with Azure Arc Amit Malik, Daman Kaur, Raja N, 2021-07-16 Accelerate hybrid cloud innovation using Azure Arc with the help of real-world scenarios and examples Key FeaturesGet to grips with setting up and working with Azure ArcHarness the power of Azure Arc and its integration with cutting-edge technologies such as Kubernetes and PaaS data servicesManage, 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 on multi-cloud to Azure every time. Implementing Hybrid Cloud with 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 learnSet up a fully functioning Azure Arc-managed environmentExplore products and services from Azure that will help you to leverage Azure ArcUnderstand the new vision of working with on-premises infrastructure play azure's PaaS data services or on other cloud platformsDiscover and learn about the tec

Azure Stack Hub Demystified Richard Young, 2021-10-07 Deploy, configure, administer, and run Microsoft Azure Stack Hub Key FeaturesUnderstand the topics required for the Microsoft Azure AZ-600 examConfigure and provide services from Microsoft Azure Stack HubImplement data center integration with Microsoft Azure Stack HubBook Description Azure Stack Hub is the on-premise offering from Microsoft, which provides Azure Cloud services within a customer's own data center. It provides consistent processes between on-site and the cloud, allowing developers to test locally and deploy to the cloud in exactly the same manner. Azure Stack Hub Demystified provides complete coverage of deploying, configuring, administrating, and running Microsoft Azure Stack Hub efficiently. Firstly, you will learn how to deploy Azure Stack Hub within an organization. As you progress, you'll understand configuration and the different services provided by the platform. The book also focuses on the underlying architecture and connectivity options for the modern data center. Later, you will understand various approaches to DevOps and their implementation, and learn key topics for the AZ-600 exam. By the end of this Azure book, you will have a thorough understanding of Azure Stack Hub and the services that are provided by the platform, along with the confidence and information you need to be able to pass the AZ-600 exam. What you will learnUnderstand the architecture of Azure Stack HubExplore how to administration of Azure Stack Hub support model and updating Azure Stack HubUnderstand how licensing and billing is done with Azure Stack HubDiscover the tools that can be used to implement security within Azure Stack HubFocus on how DevOps practices can be incorporated with Azure Stack HubWho this book is for If you are an Azure Administrator and Azure Stack Hub Operator who provides or is looking to provide cloud services to end users or customers within their own data center, then this book is for you. This book will also be beneficial to those wh

Microsoft Azure Essentials - Fundamentals of Azure Michael Collier, Robin Shahan, 2015-01-29 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.

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Learn Azure Administration Kamil Mrzygłód, 2023-12-29 Build cloud infrastructure expertise by elevating your Azure admin skills, mastering core services, and boosting productivity with helpful tools Key Features Learn about infrastructure as code, deploy resources with ARM templates, and migrate to Azure Bicep Deploy Azure Policy and explore ideas for implementing policies based on real-world scenarios Understand the structure and hierarchy of Azure resources and Azure subscriptions and the authorization and authentication mechanism Book DescriptionComplete with the latest advancements in Azure services, this second edition of Learn Azure Administration is a comprehensive guide to scaling your cloud administration skills, offering an updated exploration of Azure fundamentals and delving into the intricacies of Azure Resource Manager and Azure Active Directory. Starting with infrastructure as code (IaC) basics, this book guides you through the seamless migration to Azure Bicep and ARM templates. From Azure virtual networks planning to deployment, you'll get to grips with the complexities of Azure Load Balancer, virtual machines, and configuring essential virtual machine extensions. You'll handle the identity and security for users with the Microsoft Entra ID and centralize access using policies and defined roles. Further chapters strengthen your grasp of Azure Storage security, supplemented by an overview of tools such as Network Watcher. By the end of the book, you'll have a holistic grasp of Azure administration principles to tackle contemporary challenges and expand your proficiency to administer your Azure-based cloud environment using various tools like Azure CLI, Azure PowerShell, and infrastructure as code. What you will learn Discover the workings of Azure Load Balancer, grasp its use cases, and configure load balancer rules Gain insights into various solutions for provisioning infrastructure and configure network security groups Validate and verify multiple authentication and authorization scenarios Who

cloud computing. For IT professionals and engineers who are already familiar with the basics of Azure services, this book will serve as a step-by-step guide to solving the most common Azure problems. A basic understanding of cloud concepts such as IaaS, PaaS, virtualization, networking, and common Azure services is required.

Azure Serverless Computing Cookbook Praveen Kumar Sreeram, 2017-08-17 Over 50 recipes to help you build applications hosted on Serverless architecture using Azure Functions. About This Book Enhance Azure Functions with continuous deployment using Visual Studio Team Services Learn to deploy and manage cost-effective and highly available serverless applications using Azure Functions This recipe-based guide will teach you to build a robust serverless environment Who This Book Is For If you are a Cloud administrator, architect, or developer who wants to build scalable systems and deploy serverless applications with Azure functions, then this book is for you. Prior knowledge and hands-on experience with core services of Microsoft Azure is required. What You Will Learn Develop different event-based handlers supported by serverless architecture supported by Microsoft Cloud Platform – Azure Integrate Azure Functions with different Azure Services to develop Enterprise-level applications Get to know the best practices in organizing and refactoring the code within the Azure functions Test, troubleshoot, and monitor the Azure functions to deliver high-quality, reliable, and robust cloud-centric applications Automate mundane tasks at various levels right from development to deployment and maintenance Learn how to develop statefulserverless applications and also self-healing jobs using DurableFunctions In Detail Microsoft provides a solution to easily run small segment of code in the Cloud with Azure Functions. Azure Functions provides solutions for processing data, integrating systems, and building simple APIs and microservices. The book starts with intermediate-level recipes on serverless computing along with some use cases on benefits and key features of Azure Functions. Then, we'll deep dive into the core aspects of Azure Functions such as the services it provides, how you can develop and write Azure functions, and how to monitor and troubleshoot them. Moving on, you'll get practical recipes on integrating DevOps with Az

Mastering Azure Machine Learning Christoph Korner, Marcel Alsdorf, 2022-05-10 Supercharge and automate your deployments to Azure Machine Learning clusters and Azure Kubernetes Service using Azure Machine Learning services Key Features Implement end-to-end machine learning pipelines on Azure Train deep learning models using Azure compute infrastructure Deploy machine learning models using MLOps Book Description Azure Machine Learning is a cloud service for accelerating and managing the machine learning (ML) project life cycle that ML professionals, data scientists, and engineers can use in their day-to-day workflows. This book covers the end-to-end ML process using Microsoft Azure Machine Learning, including data preparation, performing and logging ML training runs, designing training and deployment pipelines, and managing these pipelines via MLOps. The first section shows you how to set up an Azure Machine Learning workspace; ingest and version datasets; as well as preprocess, label, and enrich these datasets for training. In the next two sections, you'll discover how to enrich and train ML models for embedding, classification, and regression. You'll explore advanced NLP techniques, traditional ML models such as boosted trees, modern deep neural networks, recommendation systems, reinforcement learning, and complex distributed ML training techniques - all using Azure Machine Learning. The last section will teach you how to deploy the trained models as a batch pipeline or real-time scoring service using Docker, Azure Machine Learning development targets. By the end of this book, you'll be able to combine all the steps you've learned by building an MLOps pipeline. What you will learn Understand the end-to-end ML pipeline Get to grips with the Azure Machine Learning workspace Ingest, analyze, and preprocess datasets for ML using the Azure cloud Train traditional and modern ML techniques efficiently using Azure ML Deploy ML models for batch and real-time scoring Understand model interoperability with ONNX Deploy ML

Professional Azure SQL Managed Database Administration Ahmad Osama, Shashikant Shakya, 2021-03-08 Master data management by effectively utilizing the features of Azure SQL database. Key Features Learn to automate common management tasks with PowerShell. Understand different methods to generate elastic pools and shards to scale Azure SQL databases. Learn to develop a scalable cloud solution through over 40 practical activities and exercises. Book Description Despite being the cloud version of SQL Server, Azure SQL Database and Azure SQL Managed Instance stands out in various aspects when it comes to management, maintenance, and administration. Updated with the latest Azure features, Professional Azure SQL Managed Database Administration continues to be a comprehensive guide for becoming proficient in data management. The book begins by introducing you to the Azure SQL managed databases (Azure SQL Database and Azure SQL Managed Instance), explaining their architecture, and how they differ from an on-premises SQL server. You will then learn how to perform common tasks, such as migrating, backing up, and restoring a SQL Server database to an Azure database. As you progress, you will study how you can save costs and manage and scale multiple SQL databases using elastic pools. You will also implement a disaster recovery solution using standard and active geo-replication. Finally, you will explore the monitoring and tuning of databases, the key features of databases, and the phenomenon of app modernization. By the end of this book, you will have mastered the key aspects of an Azure SQL database and Azure SQL managed instance, including migration, backup restorations, performance optimization, high availability, and disaster recovery. What you will learnUnderstanding Azure SQL database configuration and pricing optionsProvisioning a new SQL databased ministrators, database developers, or application developers who are interested in developing new applications or migrating existing ones with Azure SQL databases. Prior e

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

Learning Microsoft Azure Geoff Webber-Cross, 2014-10-16 If you are a developer interested in building systems for Microsoft Azure, with an understanding of efficient cloud-based application development, then this is the book for you.

Designing Distributed Systems Brendan Burns, 2018-02-20 Without established design patterns to guide them, developers have had to build distributed systems from scratch, and most of these systems are very unique indeed. Today, the increasing use of containers has paved the way for core distributed system patterns and reusable containerized components. This practical guide presents a collection of repeatable, generic patterns to help make the development of reliable distributed systems far more approachable and efficient. Author Brendan Burns—Director of Engineering at Microsoft Azure—demonstrates how you can adapt existing software design patterns for designing and building reliable distributed applications. Systems engineers and application developers will learn how these long-established patterns provide a common language and framework for dramatically increasing the quality of your system. Understand how patterns and reusable components enable the rapid development of reliable distributed systems Use the side-car, adapter, and ambassador patterns to split your application into a group of containers on a single machine Explore loosely coupled multi-node distributed patterns for replication, scaling, and communication between the components Learn distributed system patterns for large-scale batch data processing covering work-queues, event-based processing, and coordinated workflows

Hands-on Kubernetes on Azure Nills Franssens, Shivakumar Gopalakrishnan, Gunther Lenz, 2021-05-17 Understand the fundamentals of Kubernetes deployment on Azure with a learn-by-doing approach Key Features Get to grips with the fundamentals of containers and Kubernetes Deploy containerized applications using the Kubernetes platformLearn how you can scale your workloads and secure your application running in Azure Kubernetes ServiceBook Description Containers and Kubernetes containers facilitate cloud deployments and application development by enabling efficient versioning with improved security and portability. With updated chapters on role-based access control, pod identity, storing secrets, and network security in AKS, this third edition begins by introducing you to containers, Kubernetes, and Azure Kubernetes Service (AKS), and guides you through deploying an AKS cluster in different ways. You will then delve into the specifics of Kubernetes by deploying a sample guestbook application on AKS and installing complex Kubernetes apps using Helm. With the help of real-world examples, you'll also get to grips with scaling your applications and clusters. As you advance, you'll learn how to overcome common challenges in AKS and secure your applications with HTTPS. You will also learn how to secure your clusters and applications in a dedicated section on security. In the final section, you'll learn about advanced integrations, which give you the ability to create Azure databases and run serverless functions on AKS as well as the ability to integrate AKS with a continuous integration and continuous delivery (CI/CD) pipeline using GitHub Actions. By the end of this Kubernetes book, you will be proficient in deploying containerized workloads on Microsoft Azure with minimal management overhead. What you will learnPlan, configure, and run containerized applications in production. Use Docker to build applications in containers and deploy them on Kubernetes. Monitor the AKS cluster and the application wing Azure-native securi

Azure Data Engineer Associate Certification Guide Newton Alex,2022-02-28 Become well-versed with data engineering concepts and exam objectives to achieve Azure Data Engineer Associate certification Key Features Understanding of building secure and sustainable data solutions and prepare for the DP-203 certification examExplore the various Azure services for building end-to-end data solutions Gain a solid understanding of building secure and sustainable data solutions using Azure servicesBook Description Azure is one of the leading cloud providers in the world, providing numerous services for data hosting and data processing. Most of the companies today are either cloud-native or are migrating to the cloud much faster than ever. This has led to an explosion of data engineering jobs, with aspiring and experienced data engineers trying to outshine each other. Gaining the DP-203: Azure Data Engineer Associate certification is a sure-fire way of showing future employers that you have what it takes to become an Azure Data Engineer. This book will help you prepare for the DP-203 examination in a structured way, covering all the topics specified in the syllabus with detailed explanations and exam tips. The book starts by covering the fundamentals of Azure, and then takes the example of a hypothetical company and walks you through the various stages of building data engineering solutions. Throughout the chapters, you'll learn about the various Azure components involved in building the data systems and will explore them using a wide range of real-world use cases. Finally, you'll work on sample questions and answers to familiarize yourself with the pattern of the exam. By the end of this Azure book, you'll have gained the confidence you need to pass the DP-203 exam with ease and land your dream job in data engineering. What you will learnGain intermediate-level knowledge of Azure the data infrastructureDesign and implement data lake solutions with batch and stream pipelinesIdentify the partition strategies available in Azu

Cyber Security on Azure Marshall Copeland, 2017-07-17 Prevent destructive attacks to your Azure public cloud infrastructure, remove vulnerabilities, and instantly report cloud security readiness. This book provides comprehensive guidance from a security insider's perspective. Cyber Security on Azure explains how this 'security as a service' (SECaaS) business solution can help you better manage security risk and enable data security control using encryption options such as Advanced Encryption Standard (AES) cryptography. Discover best practices to support network security groups, web application firewalls, and database auditing for threat protection. Configure custom security notifications of potential cyberattack vectors to prevent unauthorized access by hackers, hacktivists, and industrial spies. What You'll Learn This book provides step-by-step guidance on how to: Support enterprise security policies Improve cloud security Configure intrusion detection Identify potential vulnerabilities Prevent enterprise security failures Who This Book Is For IT, cloud, and security administrators: CEOs, CIOs, and other business professionals

Learn Azure in a Month of Lunches Iain Foulds, 2020-06-21 Learn Azure in a Month of Lunches, Second Edition, is a tutorial on writing, deploying, and running applications in Azure. In it, you'll work through 21 short lessons that give you real-world experience. Each lesson includes a hands-on lab so you can try out and lock in your new skills. Summary You can be incredibly productive with Azure without mastering every feature, function, and service. Learn Azure in a Month of Lunches, Second Edition gets you up and running quickly, teaching you the most important concepts and tasks in 21 practical bite-sized lessons. As you explore

the examples, exercises, and labs, you'll pick up valuable skills immediately and take your first steps to Azure mastery! This fully revised new edition covers core changes to the Azure UI, new Azure features, Azure containers, and the upgraded Azure Kubernetes Service. Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications. About the technology Microsoft Azure is vast and powerful, offering virtual servers, application templates, and prebuilt services for everything from data storage to AI. To navigate it all, you need a trustworthy guide. In this book, Microsoft engineer and Azure trainer Iain Foulds focuses on core skills for creating cloud-based applications. About the book Learn Azure in a Month of Lunches, Second Edition, is a tutorial on writing, deploying, and running applications in Azure. In it, you'll work through 21 short lessons that give you real-world experience. Each lesson includes a hands-on lab so you can try out and lock in your new skills. What's inside Understanding Azure beyond point-and-click Securing applications and data Automating your environment Azure services for machine learning, containers, and more About the reader This book is for readers who can write and deploy simple web or client/server applications. About the author Iain Foulds is an engineer and senior content developer with Microsoft. Table of Contents PART 1 - AZURE CORE SERVICES 1 Before you begin 2 Creating a virtual machine 3 Azure Web Apps 4 Introduction to Azure Storage 5 Azure Networking basics PART 2 - HIGH AVAILABILITY AND SCALE 6 Azure Resource Manager 7 High availability and redundancy 8 Load-balancing applications 14 Data encryption 15 Securing information with Azure Key Vault 16 Azure Security Center and updates PART 4 - THE COOL STUFF 17 Machine learning and artificial intelligence 18 Azure Automation 19 Azure containers 20 Azure and the Internet of Things 21 Serverless computing

Microsoft Azure Julian Soh, Marshall Copeland, Anthony Puca, Micheleen Harris, 2020 Gain the technical and business insight needed to plan, deploy, and manage the services provided by the Microsoft Azure cloud. This book focuses on improving operational decision tipping points for the professionals leading DevOps and security teams. --

Learning Microsoft Azure Jonah Carrio Andersson, 2023-11-20 If your organization plans to modernize services and move to the cloud from legacy software or a private cloud on premises, this book is for you. Software developers, solution architects, cloud engineers, and anybody interested in cloud technologies will learn fundamental concepts for cloud computing, migration, transformation, and development using Microsoft Azure. Author and Microsoft MVP Jonah Carrio Andersson guides you through cloud computing concepts and deployment models, the wide range of modern cloud technologies, application development with Azure, team collaboration services, security services, and cloud migration options in Microsoft Azure. You'll gain insight into the Microsoft Azure cloud services that you can apply in different business use cases, software development projects, and modern solutions in the cloud. You'll also become fluent with Azure cloud migration services, serverless computing technologies that help your development team work productively, Azure IoT, and Azure cognitive services that make your application smarter. This book also provides real-world advice and best practices based on the author's own Azure migration experience. Gain insight into which Azure cloud service best suits your company's particular needs Understand how to use Azure for different use cases and specific technical requirements Start developing cloud services, applications, and solutions in the Azure environment Learn how to migrate existing legacy applications to Microsoft Azure

Hands-On Cloud Administration in Azure Mustafa Toroman, 2018-10-23 Explore Azure services such as networking, virtual machines, web apps, databases, cloud migration, and security Key FeaturesUnderstand Azure services to build, deploy, and manage workloads on cloudLearn in-depth core Azure services and work through real-world scenarios and case studiesA concise and practical guide for learning cloud administration on AzureBook Description Azure continues to dominate the public cloud market and grow rapidly thanks to a number of recent innovations. Azure's wide range of services and support has led to a large number of customers switching to Azure cloud. Hands-On Cloud Administration in Azure starts with the basics of Azure cloud fundamentals and key concepts of the cloud computing ecosystem and services. Then, you will gradually get acquainted with core services provided by Azure, including Azure VNet, types and assignments of IP addresses, and network security groups. You will also work on creating and administering Azure Virtual Machines, types of virtual machines (VMs), and design VM solutions based on computing workloads. As you make your way through the chapters, you will explore Azure App Service, discover how to host your web apps in Azure, and monitor and troubleshoot them. In the concluding chapters, you will learn more complex and abstract services, such as Azure Storage, Azure Backup, and Azure Site Recovery. You will also get to grips with Azure SQL Databases and the SQL on Azure VM concept. By the end of this book, you will have obtained practical experience of working with Azure services and Azure administration, along with maintaining, monitoring, and securing your Azure resources. What you will learnUnderstand the concepts of laaS and PaaSLearn design patterns for Azure solutions in AzureExplore concepts of hybrid clouds with AzureImplement Azure Security in cloudCreate and manage Azure resources with script-based tools Who this book is for Hands-On Cloud Administration in Azure is on added advan

Microsoft Azure Essentials Azure Automation Michael McKeown,2015-04-10 Microsoft Azure Essentials from Microsoft Press is a series of free ebooks designed to help you advance your technical skills with Microsoft Azure. The second ebook in the series, Microsoft Azure Essentials: Azure Automation, introduces a fairly new feature of Microsoft Azure called Azure Automation. Using a highly scalable workflow execution environment, Azure Automation allows you to orchestrate frequent deployment and life cycle management tasks using runbooks based on Windows PowerShell Workflow functionality. These runbooks are stored in and backed up by Azure. By automating runbooks, you can greatly minimize the occurrence of errors when carrying out repeated tasks and process automation. Watch Microsoft Press's blog and Twitter (@MicrosoftPress) to learn about other free ebooks in the Microsoft Azure Essentials series.

Infrastructure as Code with Azure Bicep Yaser Adel Mehraban John Downs, Edmondo Rosini, 2022-02-10 The ultimate guide to becoming proficient in Azure Bicep while having a better development experience and making your Infrastructure as Code seamless and error free Key Features Learn Azure Bicep from an official Microsoft trainer Master the authoring experience to make your Infrastructure as Code journey seamlessGo beyond writing good templates with the help of advanced tips and tricksBook Description It's no secret that developers don't like using JSON files to declare their resources in Azure because of issues such as parameter duplication and not being able to use comments in templates. Azure Bicep helps resolve these issues, and this book will guide you, as a developer or DevOps engineer, to get the most out of the Bicep language. The book takes you on a journey from understanding Azure Resource Manager (ARM) templates and what their drawbacks are to how you can use Bicep to overcome them. You will get familiar with tools such as Visual Studio Code, the Bicep extension, the Azure CLI, PowerShell, Azure DevOps, and GitHub for writing reusable, maintainable templates. After that, you'll test the templates and deploy them to an Azure environment either from your own system or via a continuous integration and continuous delivery (CI/CD) pipeline. The book features a detailed overview of all the Bicep features, when to use what, and how to write great templates that fit well into your existing pipelines or in a new one. The chapters progress from easy to advanced topics and every effort has been put into making them easy to follow with examples, all of which are accessible via GitHub. By the end of this book, you'll have developed a solid understanding of Azure Bicep and will be able to create, test, and deploy your resources locally or in your CI/CD pipelines. What you will learnGet started with Azure Bicep and install the necessary toolsUnderstand the details of how to define resources with BicepUse modules to c

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Azure Introduction

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