Book of Azure

Whosoever holds this book, if they be worthy, shall possess the power of Azure.

Luke Murray

Table of contents

1. Title

Please note that the content outlined in this book of Azure is subject to change. For the latest updates on Microsoft Azure, please visit: azure.microsoft.com.

1.1 Commands

- `mkdocs new [dir-name]` - Create a new project.
- `mkdocs serve` - Start the live-reloading docs server.
- `mkdocs build` - Build the documentation site.
- `mkdocs -h` - Print help message and exit.

1.2 Project layout

```
mkdocs.yml    # The configuration file.
docs/
    index.md  # The documentation homepage.
    ...       # Other markdown pages, images and other files.
```

https://github.com/lukemurraynz/bookofazure/blob/gh-pages/pdf/document.pdf?raw=true

1.3 Code Test

1.3.1 Code Blocks

`Get-Atlantis

``` { .yaml .select }

# 2. Code block content

````

Before a chapter, you might find a few different elements in a book:

Title page: This is usually the first page of the book and includes the book's title, author's name, and publisher's information.

Copyright page: This page follows the title page and includes the copyright information, such as the copyright holder, year of publication, and any legal notices.

Dedication or epigraph: Some books may include a dedication or epigraph, which is a short statement or quotation that is usually located on its own page before the first chapter. The dedication is typically a personal message from the author to someone special, while the epigraph is a quote that sets the tone for the book.

Table of contents: This is a list of all the chapters and sections in the book, usually found at the beginning of the book. It helps readers navigate the book and find specific sections easily.

Foreword or preface: A foreword or preface is usually written by someone other than the author and provides context or insight into the book's content. It typically appears before the first chapter and is sometimes used to acknowledge individuals who helped with the book's creation.

After these elements, the book's first chapter usually begins.

3. Chapter 1

3.1 Introduction to Microsoft Azure

Overview of Microsoft Azure and its key features Setting up a Microsoft Azure account Understanding the Azure portal and its different components Creating and managing Azure resources Understanding Azure subscription models and pricing

4. Chapter 2

4.1 Getting Started with Azure

Understanding Azure compute services, including virtual machines, containers, and serverless computing Creating and managing Azure virtual machines Deploying and configuring applications in Azure Using Azure Marketplace to deploy pre-built solutions Implementing Azure storage solutions, including blobs, files, and queues

5. Chapter 3

5.1 Deploying Infrastructure and Platform as a Service Services

Understanding Azure networking, including virtual networks, load balancing, and VPN gateways Implementing Azure Platform as a Service (PaaS) solutions, including Web Apps, Logic Apps, and Functions Deploying Azure Kubernetes Service (AKS) and managing containerized applications Creating and managing Azure databases, including SQL Server, Cosmos DB, and MySQL

6. Chapter 4

6.1 Architecting for High Availability and Redundancy

Understanding the importance of high availability and redundancy in cloud computing Designing highly available architectures using Azure availability sets and virtual machine scale sets Implementing disaster recovery solutions using Azure Site Recovery and Azure Backup Configuring Azure Load Balancer for high availability and scalability Understanding Azure Traffic Manager and its role in global load balancing

7. Chapter 5

7.1 Advanced Azure Topics

Securing Azure resources using Azure Active Directory and Azure Security Center Monitoring and troubleshooting Azure resources using Azure Monitor and Azure Log Analytics Implementing Azure DevOps for continuous integration and deployment (CI/CD) Leveraging Azure AI and machine learning services, including Azure Cognitive Services and Azure Machine Learning Exploring emerging technologies in Azure, including IoT, blockchain, and serverless computing