

azure workbooks documentation

azure workbooks documentation provides essential guidance for users looking to leverage Azure Workbooks for data visualization, reporting, and analysis. This powerful tool integrates seamlessly with Azure Monitor, enabling users to create interactive reports and dashboards tailored to their specific needs. In this article, we will explore the various facets of Azure Workbooks documentation, including its features, benefits, and different use cases. We will also delve into best practices for utilizing this tool effectively, ensuring that you can maximize its potential in your cloud environment. By the end, you will have a comprehensive understanding of Azure Workbooks and how to navigate its documentation effectively.

- Introduction to Azure Workbooks
- Understanding the Features of Azure Workbooks
- Benefits of Using Azure Workbooks
- Use Cases for Azure Workbooks
- How to Access Azure Workbooks Documentation
- Best Practices for Using Azure Workbooks
- Conclusion
- FAQ

Introduction to Azure Workbooks

Azure Workbooks is a flexible and powerful tool within the Azure ecosystem that allows users to create interactive reports and dashboards. It is primarily designed to help users visualize data from various Azure services and present it in a cohesive manner. By utilizing Azure Workbooks, organizations can effectively monitor their applications and infrastructure, ensuring they maintain optimal performance and reliability.

One of the key aspects of Azure Workbooks is its ability to integrate with Azure Monitor, Application Insights, and Log Analytics, allowing for comprehensive data analysis. Users can create custom visualizations, leverage templates, and utilize various data sources to tailor their reports to meet specific business needs. As organizations continue to rely on data-driven decision-making, understanding how to utilize Azure Workbooks becomes increasingly important.

Understanding the Features of Azure Workbooks

Azure Workbooks offers a wide array of features that enhance the reporting and visualization experience. These features cater to different user requirements, from basic reporting needs to complex data analysis tasks.

Interactive Visualizations

One of the standout features of Azure Workbooks is its support for interactive visualizations. Users can create charts, graphs, and tables that allow for dynamic data exploration. This interactivity empowers users to drill down into data points, providing deeper insights and fostering a better understanding of their information.

Customizable Templates

Azure Workbooks provides a selection of customizable templates that users can utilize to get started quickly. These templates can be tailored to fit specific reporting requirements, enabling users to focus on their data rather than the design elements of their reports.

Multiple Data Sources

Users can connect Azure Workbooks to various data sources, including Azure Monitor, Azure Logs, and third-party applications. This versatility allows organizations to consolidate their data into a single platform, making it easier to analyze and report on.

Benefits of Using Azure Workbooks

The advantages of using Azure Workbooks are numerous and can significantly impact how organizations manage and present their data. By leveraging its features, businesses can enhance their reporting capabilities and streamline their operations.

Enhanced Data Visualization

With Azure Workbooks, users can create visually appealing and informative reports. This enhanced data visualization leads to better comprehension of trends and metrics, facilitating informed decision-making.

Improved Collaboration

Azure Workbooks encourages collaboration by allowing multiple users to work on the same workbook simultaneously. This feature enhances teamwork and ensures that insights are shared across departments, promoting a culture of data-driven decision-making.

Real-Time Monitoring

The integration with Azure Monitor allows users to receive real-time updates on their applications and infrastructure. This capability is crucial for identifying and addressing issues before they escalate, thus ensuring optimal performance.

Use Cases for Azure Workbooks

Azure Workbooks can be applied in various scenarios, making it a versatile tool for organizations of all sizes. Here are some common use cases:

- **Performance Monitoring:** Organizations can use Azure Workbooks to monitor the performance of their applications and services in real time.
- **Log Analysis:** Users can analyze log data from different Azure resources, identifying patterns and anomalies.
- **Security Auditing:** Azure Workbooks can help in auditing security measures by visualizing security-related metrics and alerts.
- **Resource Management:** Users can track resource utilization and costs, ensuring efficient management of cloud resources.

How to Access Azure Workbooks Documentation

Accessing Azure Workbooks documentation is essential for users who want to maximize the tool's capabilities. The documentation serves as a comprehensive resource that guides users through various functionalities and best practices.

Users can access Azure Workbooks documentation through the Microsoft Azure official website. The documentation is organized into sections that cover everything from getting started to advanced features, ensuring that users can find the information they need quickly and efficiently.

Additionally, the documentation includes tutorials, samples, and best practices, which can be invaluable for both novice and experienced users. This wealth of information allows users to deepen their understanding and enhance their reporting capabilities.

Best Practices for Using Azure Workbooks

To get the most out of Azure Workbooks, users should adhere to several best practices. These recommendations can help streamline the reporting process and enhance the effectiveness of the tool.

Start with Templates

Utilizing pre-built templates can significantly speed up the creation of reports. Users can customize these templates to fit their specific needs, allowing for quick deployment of interactive dashboards.

Organize Data Sources

Maintaining an organized structure for data sources is crucial. Users should categorize and label their data sources clearly, making it easier to reference them in reports and visualizations.

Regularly Review and Update Reports

As data and business requirements change, it is essential to regularly review and update reports. This practice ensures that the information remains relevant and actionable.

Conclusion

Azure Workbooks documentation serves as a vital resource for users aiming to harness the full potential of this powerful reporting tool. By understanding its features, benefits, and use cases, as well as adhering to best practices, organizations can create impactful visualizations that drive data-driven decisions. As businesses continue to evolve in the cloud era, tools like Azure Workbooks will play a pivotal role in shaping their analytical capabilities, making it imperative for users to familiarize themselves with the documentation and its offerings.

Q: What is Azure Workbooks?

A: Azure Workbooks is a data visualization and reporting tool that integrates with Azure Monitor and other Azure services, allowing users to create interactive reports and dashboards for monitoring applications and infrastructure.

Q: How can I access Azure Workbooks documentation?

A: Azure Workbooks documentation can be accessed through the Microsoft Azure official website, which provides comprehensive guides, tutorials, and best practices for users.

Q: What are the key features of Azure Workbooks?

A: Key features of Azure Workbooks include interactive visualizations,

customizable templates, and the ability to connect to multiple data sources for enhanced reporting.

Q: What are some common use cases for Azure Workbooks?

A: Common use cases for Azure Workbooks include performance monitoring, log analysis, security auditing, and resource management.

Q: How does Azure Workbooks support collaboration?

A: Azure Workbooks supports collaboration by allowing multiple users to work on the same workbook simultaneously, which enhances teamwork and sharing of insights across departments.

Q: What best practices should I follow when using Azure Workbooks?

A: Best practices include starting with templates, organizing data sources clearly, and regularly reviewing and updating reports to keep them relevant and effective.

Q: Can Azure Workbooks integrate with third-party applications?

A: Yes, Azure Workbooks can connect to various third-party applications in addition to native Azure services, allowing for a more comprehensive data analysis experience.

Q: Is it possible to customize visualizations in Azure Workbooks?

A: Yes, Azure Workbooks allows users to create highly customizable visualizations, enabling them to tailor reports to meet specific business requirements.

Q: What types of visualizations can I create in Azure Workbooks?

A: Users can create a variety of visualizations in Azure Workbooks, including charts, graphs, tables, and maps, to effectively display their data.

Q: How can Azure Workbooks improve decision-making in organizations?

A: Azure Workbooks improves decision-making by providing clear and interactive visualizations of data, enabling stakeholders to quickly grasp insights and trends necessary for informed decisions.

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azure workbooks documentation: Azure FinOps Essentials Parag Bhardwaj, Arun Kumar Samayam, 2024-09-30 DESCRIPTION Azure FinOps, the intersection of finance, operations, and technology, has become paramount in optimizing cloud spending. "Azure FinOps Essentials" is a guide to help you navigate easily with cost management and optimization within Microsoft Cloud. This book is a practical guide to cutting cloud costs in Microsoft Azure. It covers everything from understanding Azure services and cost management to advanced strategies like Infrastructure as Code and serverless computing. You will learn to set up Azure Cost Management, optimize resources with tools like Reserved Instances, and enforce governance using Azure Policy. The book also highlights case studies and best practices to help you build a FinOps culture, streamline costs, and enhance cost-efficiency in your cloud environment. If you are new to cloud financial management or need a refresher on some of the best practices, Azure FinOps Essentials is designed for anyone running an operational workload in both public and private clouds who wants to improve their expense management within the environment. KEY FEATURES ● An in-depth guide to the fundamentals of Azure cost management. ● Detailed instructions for creating cost alerts and establishing budgets. ● Practical strategies to enhance cloud resource efficiency. WHAT YOU WILL LEARN ● Establish and enforce standards for Azure cloud cost management through auditing. ● Learn cost-saving tactics like rightsizing and using Reserved Instances. ● Master Azure tools for monitoring spending, budgeting, and setting up alerts. ● Build custom dashboards to accurately display key financial metrics. ● Implement governance and compliance for effective cloud financial management. WHO THIS BOOK IS FOR This book is for cloud architects, DevOps engineers and IT professionals managing costs in Azure environments. It provides the necessary knowledge and skills to optimize cloud spending, improve efficiency, and drive business value. TABLE OF CONTENTS 1. Introduction to Azure FinOps 2. Azure Fundamentals for FinOps 3. Azure Cost Management and Billing 4. Cost Optimization Strategies 5. Azure Monitoring 6. Cost Allocation and Chargebacks 7. Governance and Compliance 8. Advanced Azure FinOps Techniques 9. Azure FinOps Best Practices 10. Azure Case Studies and Real-world Examples 11. Future Trends and Innovations in Azure FinOps 12. Final Thoughts and Next Steps

azure workbooks documentation: Learn Azure Sentinel Richard Diver, Gary Bushey, 2020-04-07 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.

azure workbooks documentation: The Definitive Guide to KQL Mark Morowczynski, Rod Trent, Matthew Zorich, 2024-05-16 Turn the avalanche of raw data from Azure Data Explorer, Azure Monitor, Microsoft Sentinel, and other Microsoft data platforms into actionable intelligence with KQL (Kusto Query Language). Experts in information security and analysis guide you through what it takes to automate your approach to risk assessment and remediation, speeding up detection time while reducing manual work using KQL. This accessible and practical guide—designed for a broad range of people with varying experience in KQL—will quickly make KQL second nature for information security. Solve real problems with Kusto Query Language— and build your competitive advantage: Learn the fundamentals of KQL—what it is and where it is used Examine the anatomy of a KQL query Understand why data summation and aggregation is important See examples of data summation, including count, countif, and dcount Learn the benefits of moving from raw data ingestion to a more automated approach for security operations Unlock how to write efficient and effective queries Work with advanced KQL operators, advanced data strings, and multivalued strings Explore KQL for day-to-day admin tasks, performance, and troubleshooting Use KQL across Azure, including app services and function apps Delve into defending and threat hunting using KQL Recognize indicators of compromise and anomaly detection Learn to access and contribute to hunting queries via GitHub and workbooks via Microsoft Entra ID

azure workbooks documentation: Microsoft Azure Monitoring & Management Avinash Valiramani, 2022-12-05 Proven best practices for success with every Azure monitoring and management service For cloud environments to deliver optimal value, their monitoring and management services must be designed, deployed, and managed well. Leading cloud consultant Avinash Valiramani shows how to simplify administration, reduce downtime, control cost, solve problems faster, and prepare for any workload in any environment. Explore detailed, expert coverage of Azure Backup, Azure Site Recovery, Azure Migrate, Azure Monitor, Azure Network Watcher, Azure Portal, Azure Cloud Shell, Azure Service Health, Azure Cost Management, and more. Whatever your role in delivering efficient, reliable cloud services, this best practice, deep dive guide will help you make the most of your Azure investment. Leading Azure consultant Avinash Valiramani

shows how to: Back up on-premises, Azure-based, and other cloud workloads for short- and long-term retention Implement simple, stable, cost-effective business continuity/disaster recovery with Azure Site Recovery Discover, assess, and migrate diverse workloads to Azure, VMs, web apps, databases, and more Monitor all Azure applications, VMs, and other deployed services centrally via Azure Monitor Track, troubleshoot, and optimize networking for IaaS resources Create and manage anything from single-service solutions to complex multi-service architectures Run Azure Cloud Shell's cloud-native command line from any device, anywhere Monitor service health, workload levels, service layer resources, and availability Also look for these Definitive Guides to Azure success: Microsoft Azure Compute: The Definitive Guide Microsoft Azure Networking: The Definitive Guide Microsoft Azure Storage: The Definitive Guide

azure workbooks documentation: Exam Prep AZ-305 Lalit Rawat, 2024-07-24

DESCRIPTION "Exam Prep AZ-305: Designing Microsoft Azure Infrastructure Solutions" book is a comprehensive guide for IT professionals preparing for the Microsoft Azure AZ-305 certification exam. This book offers detailed insights into designing scalable, secure, and resilient infrastructure solutions on the Azure platform, aligning with the latest exam objectives. It covers critical topics such as designing governance, security, storage, and networking solutions, ensuring readers have the necessary knowledge to architect effective Azure solutions. Through a blend of theoretical concepts and practical exercises, this guide equips readers with the skills needed to apply Azure best practices in real-world scenarios. Each chapter covers specific areas of infrastructure design, providing step-by-step instructions, expert tips, and real-life examples to illustrate complex concepts. This practical approach not only helps in mastering the exam content but also enhances the reader's ability to solve real-world challenges in their job roles. It not only prepares you for certification but also empowers you to design and implement robust Azure infrastructure solutions, thereby enhancing your capabilities and career prospects in the evolving field of cloud technology.

KEY FEATURES

- Expertise in Azure networking, storage, compute, identity management, monitoring, security, hybrid cloud solutions, and disaster recovery.
- Learn to design and implement robust Azure infrastructure solutions.
- Prepare for the AZ-305 Azure Infrastructure Architect certification exam.
- Utilize up-to-date Microsoft AZ-305 curriculum.

WHAT YOU WILL LEARN

- Master Azure governance principles.
- Design secure authentication and authorization solutions.
- Architect scalable compute solutions on Azure.
- Implement effective data storage and integration strategies.
- Design robust backup and disaster recovery solutions.
- Learn key migration strategies for transitioning to Azure.

WHO THIS BOOK IS FOR Whether you are an aspiring cloud architect, a seasoned IT professional, or someone looking to advance their career in cloud computing, this book serves as an essential resource.

TABLE OF CONTENTS

1. Designing Governance
2. Designing Authentication and Authorization Solutions
3. Designing a Solution Monitor of Azure Resources
4. Designing an Azure Compute Solution
5. Designing a Data Storage Solution for Non-relational Data
6. Designing Data Integration
7. Designing Data Storage Solutions for Relational Data
8. Designing Network Solutions
9. Designing a Solution for Backup and Disaster Recovery
10. Designing Migration
11. Azure Well-Architected Framework
12. Exam Preparation Guidelines and Assessment Questions
13. Azure Architect Exam Mock Test

azure workbooks documentation: 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 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

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.

azure workbooks documentation: Azure Penetration Testing Rob Botwright, 2024 Unlock the Power of Azure Security with Our Comprehensive Book Bundle Are you ready to master Azure cloud security and protect your organization's valuable assets from potential threats? Look no further than the Azure Penetration Testing: Advanced Strategies for Cloud Security book bundle. This comprehensive collection of four books is your ultimate guide to securing your Azure environment, whether you're a beginner or an experienced cloud professional. Book 1 - Azure Penetration Testing for Beginners: A Practical Guide · Ideal for beginners and those new to Azure security. · Provides a solid foundation in Azure security concepts. · Offers practical guidance and hands-on exercises to identify and mitigate common vulnerabilities. · Equip yourself with essential skills to safeguard your Azure resources. Book 2 - Mastering Azure Penetration Testing: Advanced Techniques and Strategies · Takes your Azure security knowledge to the next level. · Delves deep into advanced penetration testing techniques. · Explores intricate strategies for securing your Azure environment. · Ensures you stay ahead of evolving threats with cutting-edge techniques. Book 3 - Azure Penetration Testing: Securing Cloud Environments Like a Pro · Focuses on real-world scenarios and solutions. · Offers comprehensive insights into securing various Azure services. · Equips you with the skills needed to protect your organization's critical assets effectively. · Become a true Azure security pro with this practical guide. Book 4 - Expert Azure Penetration Testing: Advanced Red Teaming and Threat Hunting · The pinnacle of Azure security expertise. · Explores advanced red teaming and threat hunting techniques. · Proactively identifies and responds to elusive threats. · Prepare to face the most sophisticated security challenges head-on. With this book bundle, you'll: · Gain a strong foundation in Azure security. · Master advanced penetration testing and security techniques. · Secure your Azure cloud environment like a pro. · Learn advanced red teaming and threat hunting strategies. · Protect your organization's assets from evolving threats. Whether you're an Azure enthusiast, an IT professional, or a security enthusiast, this book bundle has you covered. It's more than just a collection of books; it's your roadmap to Azure security excellence. Don't wait until a security breach happens; take proactive steps to secure your Azure environment. Invest in the Azure Penetration Testing: Advanced Strategies for Cloud Security book bundle today and ensure your organization's Azure deployments remain resilient in the face of ever-evolving threats.

azure workbooks documentation: Developing Solutions for Microsoft Azure AZ-204 Exam Guide Paul Ivey, Alex Ivanov, 2022-10-19 Build a thorough understanding of the technology, concepts, and development patterns used in building applications in Azure, through detailed explanations, hands-on exercises, and downloadable code samples Key Features Written by two Microsoft technical trainers to help you explore the exam topics in a structured way Understand the “why”, and not just “how” behind design and solution decisions Follow along examples with

downloadable code samples to help cement each topic's learning objective

Book Description With the prevalence of cloud technologies and DevOps ways of working, the industry demands developers who can build cloud solutions and monitor them throughout their life cycle. Becoming a Microsoft-certified Azure developer can differentiate developers from the competition, but with such a plethora of information available, it can be difficult to structure learning in an effective way to obtain certification. Through easy-to-understand explanations and exercises, this book will provide a more palatable learning experience than what you may expect from an exam preparation book. You'll start off with a recap of some important cloud concepts, such as IaaS, PaaS, and SaaS. From there, you'll learn about each relevant solution area, with use cases. The chapters also cover different implementation methodologies, both manual and programmatic - ranging from compute resources such as App Service and serverless applications to storage, database, security, monitoring solutions, and connecting to third-party services. By the end of this book, you'll have learned everything you need to pass the AZ-204 certification exam and have a handy, on-the-job reference guide. What you will learn

Develop Azure compute solutions

Discover tips and tricks from Azure experts for interactive learning

Use Cosmos DB storage and blob storage for developing solutions

Develop secure cloud solutions for Azure

Use optimization, monitoring, and troubleshooting for Azure solutions

Develop Azure solutions connected to third-party services

Who this book is for

This book is for Azure developers looking to improve their Azure development knowledge to pass the AZ-204 exam. This book assumes at least one year of professional development experience with Azure, with the ability to program in at least one language supported by Azure. Existing Azure CLI and PowerShell skills will also be useful.

azure workbooks documentation: *DevOps Design Pattern* Pradeep Chintale, 2023-12-29

DevOps design, architecture and its implementations with best practices

KEY FEATURES

- Streamlined collaboration for faster, high-quality software delivery.
- Efficient automation of development, testing, and deployment processes.
- Integration of continuous monitoring and security measures for reliable applications.

DESCRIPTION DevOps design patterns encompass a set of best practices aimed at revolutionizing the software development lifecycle. It introduces a collaborative and streamlined approach to bring together different aspects of development, testing, deployment, and operations. At its core, DevOps seeks to break down traditional silos between these functions, fostering a culture of cooperation and continuous communication among teams. This interconnectivity enables faster, higher-quality software delivery by eliminating bottlenecks. DevOps best practices offer significant benefits to DevOps engineers, enhancing their effectiveness and efficiency. Examine best practices for version control and dynamic environments closely, learn how to build once, deploy many, and master the art of continuous integration and delivery (CI/CD), reducing manual intervention and minimizing errors. Each chapter equips you with actionable insights, guiding you through automated testing, robust monitoring, and effective rollback strategies. You will confidently tap into the power of Infrastructure as Code (IaC) and DevSecOps methodologies, ensuring secure and scalable software delivery. Overall, DevOps best practices enable DevOps engineers to deliver high-quality, scalable, and secure software in a more streamlined and collaborative environment.

WHAT YOU WILL LEARN

- Apply DevOps design patterns to optimize system architecture and performance.
- Implement DevOps best practices for efficient software development.
- Establish robust and scalable CI/CD processes with security considerations.
- Effectively troubleshoot issues and ensure reliable and resilient software.
- Seamlessly integrate security practices into the entire software development lifecycle, from coding to deployment.

WHO THIS BOOK IS FOR Software Developers, Software Architects, Infrastructure Engineers, Operation Engineers, Cloud Engineers, Quality Assurance (QA) Engineers, and all DevOps professionals across all experience levels to master efficient software delivery through proven design patterns.

TABLE OF CONTENTS

1. Why DevOps
2. Implement Version Control and Tracking
3. Dynamic Developer Environment
4. Build Once, Deploy Many
5. Frequently Merge Code: Continuous Integration
6. Software Packaging and Continuous Delivery
7. Automated Testing
8. Rapid Detection of Compliance Issues and Security Risks
9. Rollback Strategy
10. Automated

Infrastructure 11. Focus on Security: DevSecOps

azure workbooks documentation: Exam Ref 70-778 Analyzing and Visualizing Data with Microsoft Power BI Daniil Maslyuk, 2018-06-07 Prepare for Microsoft Exam 70-778-and help demonstrate your real-world mastery of Power BI data analysis and visualization. Designed for experienced BI professionals and data analysts ready to advance their status, Exam Ref focuses on the critical thinking and decision-making acumen needed for success at the MCSA level. Focus on the expertise measured by these objectives: Consume and transform data by using Power BI Desktop Model and visualize data Configure dashboards, reports, and apps in the Power BI Service This Microsoft Exam Ref: Organizes its coverage by exam objectives Features strategic, what-if scenarios to challenge you Assumes you have experience consuming and transforming data, modeling and visualizing data, and configuring dashboards using Excel and Power BI

azure workbooks documentation: Microsoft Sentinel in Action Richard Diver, Gary Bushey, John Perkins, 2022-02-10 Learn how to set up, configure, and use Microsoft Sentinel to provide security incident and event management services for your multi-cloud environment Key FeaturesCollect, normalize, and analyze security information from multiple data sourcesIntegrate AI, machine learning, built-in and custom threat analyses, and automation to build optimal security solutionsDetect and investigate possible security breaches to tackle complex and advanced cyber threatsBook Description Microsoft Sentinel is a security information and event management (SIEM) tool developed by Microsoft that helps you integrate cloud security and artificial intelligence (AI). This book will teach you how to implement Microsoft Sentinel and understand how it can help detect security incidents in your environment with integrated AI, threat analysis, and built-in and community-driven logic. The first part of this book will introduce you to Microsoft Sentinel and Log Analytics, then move on to understanding data collection and management, as well as how to create effective Microsoft Sentinel queries to detect anomalous behaviors and activity patterns. The next part will focus on useful features, such as entity behavior analytics and Microsoft Sentinel playbooks, along with exploring the new bi-directional connector for ServiceNow. In the next part, you'll be learning how to develop solutions that automate responses needed to handle security incidents and find out more about the latest developments in security, 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 Microsoft Sentinel to fit your needs and protect your environment from cyber threats and other security issues. What you will learnImplement Log Analytics and enable Microsoft Sentinel and data ingestion from multiple sourcesTackle Kusto Query Language (KQL) codingDiscover how to carry out threat hunting activities in Microsoft SentinelConnect Microsoft Sentinel to ServiceNow for automated ticketingFind out how to detect threats and create automated responses for immediate resolutionUse triggers and actions with Microsoft Sentinel playbooks to perform automationsWho this book is for You'll get the most out of this book if you have a good grasp on other Microsoft security products and Azure, and are now looking to expand your knowledge to incorporate Microsoft Sentinel. Security experts who use an alternative SIEM tool and want to adopt Microsoft Sentinel as an additional or a replacement service will also find this book useful.

azure workbooks documentation: Excel 2019 Bible Michael Alexander, Richard Kusleika, John Walkenbach, 2018-09-20 The complete guide to Excel 2019 Whether you are just starting out or an Excel novice, the Excel 2019 Bible is your comprehensive, go-to guide for all your Excel 2019 needs. Whether you use Excel at work or at home, you will be guided through the powerful new features and capabilities to take full advantage of what the updated version offers. Learn to incorporate templates, implement formulas, create pivot tables, analyze data, and much more. Navigate this powerful tool for business, home management, technical work, and much more with the only resource you need, Excel 2019 Bible. Create functional spreadsheets that work Master formulas, formatting, pivot tables, and more Get acquainted with Excel 2019's new features and tools Whether you need a walkthrough tutorial or an easy-to-navigate desk reference, the Excel 2019 Bible has you covered with complete coverage and clear expert guidance.

azure workbooks documentation: 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 Understand and apply data engineering concepts to real-world problems and prepare for the DP-203 certification exam Explore the various Azure services for building end-to-end data solutions Gain a solid understanding of building secure and sustainable data solutions using Azure services Book 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 learn Gain intermediate-level knowledge of Azure the data infrastructure Design and implement data lake solutions with batch and stream pipelines Identify the partition strategies available in Azure storage technologies Implement different table geometries in Azure Synapse Analytics Use the transformations available in T-SQL, Spark, and Azure Data Factory Use Azure Databricks or Synapse Spark to process data using Notebooks Design security using RBAC, ACL, encryption, data masking, and more Monitor and optimize data pipelines with debugging tips Who this book is for This book is for data engineers who want to take the DP-203: Azure Data Engineer Associate exam and are looking to gain in-depth knowledge of the Azure cloud stack. The book will also help engineers and product managers who are new to Azure or interviewing with companies working on Azure technologies, to get hands-on experience of Azure data technologies. A basic understanding of cloud technologies, extract, transform, and load (ETL), and databases will help you get the most out of this book.

azure workbooks documentation: *Learn Azure Synapse Data Explorer* Pericles (Peri) Rocha, 2023-02-17 A hands-on guide to working on use cases helping you ingest, analyze, and serve insightful data from IoT as well as telemetry data sources using Azure Synapse Data Explorer Free PDF included with this book Key Features Augment advanced analytics projects with your IoT and application data Expand your existing Azure Synapse environments with unstructured data Build industry-level projects on integration, experimentation, and dashboarding with Azure Synapse Book Description Large volumes of data are generated daily from applications, websites, IoT devices, and other free-text, semi-structured data sources. Azure Synapse Data Explorer helps you collect, store, and analyze such data, and work with other analytical engines, such as Apache Spark, to develop advanced data science projects and maximize the value you extract from data. This book offers a comprehensive view of Azure Synapse Data Explorer, exploring not only the core scenarios of Data Explorer but also how it integrates within Azure Synapse. From data ingestion to data visualization and advanced analytics, you'll learn to take an end-to-end approach to maximize the value of unstructured data and drive powerful insights using data science capabilities. With real-world usage scenarios, you'll discover how to identify key projects where Azure Synapse Data Explorer can help you achieve your business goals. Throughout the chapters, you'll also find out how to manage big data as part of a software as a service (SaaS) platform, as well as tune, secure, and serve data to end users. By the end of this book, you'll have mastered the big data life cycle and you'll be able to implement advanced analytical scenarios from raw telemetry and log data. What you will learn Integrate Data Explorer pools with all other Azure Synapse services Create Data Explorer pools

with Azure Synapse Studio and Azure PortalIngest, analyze, and serve data to users using Azure Synapse pipelinesIntegrate Power BI and visualize data with Synapse StudioConfigure Azure Machine Learning integration in Azure SynapseManage cost and troubleshoot Data Explorer pools in Synapse AnalyticsSecure Synapse workspaces and grant access to Data Explorer poolsWho this book is for If you are a data engineer, data analyst, or business analyst working with unstructured data and looking to learn how to maximize the value of such data, this book is for you. If you already have experience working with Azure Synapse and want to incorporate unstructured data into your data science project, you'll also find plenty of useful information in this book. To maximize your learning experience, familiarity with data and performing simple queries using SQL or KQL is recommended. Basic knowledge of Python will help you get more from the examples.

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include PaaS and IaaS services. Towards the end of the book, you will explore monitoring in DevOps and see why it is important to be aware of continuous changes. What You Will Learn Work with Azure IaaS and PaaS resources and monitoring and diagnostics capabilities Discover how the operational landscape changes on Azure Look at cloud-only and on-premises hybrid integration Study architectural constructs for design and implementation Who This Book Is For Infrastructure and solution architects who want to integrate Azure-based monitoring solutions in a cloud native or hybrid-cloud architecture.

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