

azure workbooks kql

azure workbooks kql offers a powerful platform for visualizing and analyzing data through the integration of Azure Workbooks and Kusto Query Language (KQL). This combination allows users to create rich, interactive reports and dashboards that can provide insights across various Azure services. In this comprehensive article, we will explore the fundamentals of Azure Workbooks and KQL, how to effectively use them together, and best practices for optimizing your data analysis workflows. Additionally, we will discuss common use cases, the benefits of using Azure Workbooks with KQL, and provide examples to illustrate their capabilities.

- Introduction to Azure Workbooks and KQL
- Understanding Kusto Query Language (KQL)
- Creating Azure Workbooks
- Integrating KQL with Azure Workbooks
- Use Cases for Azure Workbooks and KQL
- Best Practices for Using Azure Workbooks with KQL
- Conclusion

Introduction to Azure Workbooks and KQL

Azure Workbooks is a flexible tool within the Azure portal that allows users to create customizable reports and dashboards by pulling data from various Azure services. The integration of Kusto Query Language (KQL) enhances Azure Workbooks by providing a powerful query language designed for large-scale data analysis. KQL allows users to write complex queries to retrieve, analyze, and visualize data efficiently. This section will provide an overview of both Azure Workbooks and KQL, setting the stage for their integration.

What is Azure Workbooks?

Azure Workbooks is a service that offers a way to visualize data and insights from various Azure resources. It provides a rich editing experience where users can create reports that combine text, metrics, and visualizations. The primary features of Azure Workbooks include:

- Customizable templates for reports and dashboards.
- Integration with Azure Monitor, Azure Security Center, and other Azure services.
- Collaboration capabilities to share workbooks with team members.
- Interactive visualizations that can help interpret data more effectively.

What is Kusto Query Language (KQL)?

Kusto Query Language (KQL) is a powerful query language used in Azure Data Explorer and other Azure services to analyze large volumes of data. KQL is designed for querying structured, semi-structured, and unstructured data with a syntax that is both flexible and efficient. Key features of KQL include:

- Filtering and sorting data using various operators.
- Aggregation functions to summarize data.
- Joins and unions to combine data from different tables.
- Time series analysis capabilities.

Creating Azure Workbooks

Creating Azure Workbooks is a straightforward process that allows users to leverage their data effectively. Users can start by accessing the Azure portal and navigating to the Workbooks section. From there, they can create a new workbook, select a data source, and begin designing their report.

Steps to Create an Azure Workbook

The following steps outline how to create a new Azure Workbook:

1. Log into the Azure portal.
2. Navigate to the “Monitor” service and select “Workbooks.”
3. Click on the “+ New” button to create a new workbook.
4. Select a data source from Azure Monitor, Log Analytics, or other available sources.
5. Use the editor to add text, parameters, and visualizations.
6. Save and share the workbook with your team.

Integrating KQL with Azure Workbooks

Integrating KQL with Azure Workbooks is where the true power lies. By using KQL, users can extract specific data sets that meet their analytical requirements and visualize them effectively within the workbook environment.

How to Use KQL in Azure Workbooks

To use KQL in Azure Workbooks, users can follow these steps:

1. Open the workbook where you want to integrate KQL.
2. Add a new query control by selecting "Add query" from the options.
3. Choose the appropriate data source that supports KQL.
4. Enter your KQL query in the query editor.

5. Run the query and visualize the results using charts, tables, or graphs.

Use Cases for Azure Workbooks and KQL

The combination of Azure Workbooks and KQL creates numerous opportunities for data analysis across various scenarios. Here are some common use cases:

- Monitoring application performance metrics.
- Analyzing security logs and alerts.
- Visualizing usage statistics for Azure resources.
- Creating operational dashboards for IT teams.

Best Practices for Using Azure Workbooks with KQL

To maximize the effectiveness of Azure Workbooks and KQL, consider the following best practices:

- Keep queries simple and efficient to reduce loading times.
- Use parameters in queries to make reports dynamic and user-friendly.
- Regularly update and maintain workbooks to reflect current data needs.
- Utilize built-in templates as starting points for creating new workbooks.

Conclusion

By leveraging the capabilities of **azure workbooks kql**, users can create powerful, interactive reports that

provide deep insights into their data. The seamless integration of KQL with Azure Workbooks allows for efficient data analysis and visualization, making it an essential tool for businesses using Azure services. Understanding how to effectively utilize both tools enhances data-driven decision-making and operational efficiency.

Q: What is the primary purpose of Azure Workbooks?

A: The primary purpose of Azure Workbooks is to provide a flexible platform for creating customizable reports and dashboards that visualize data from various Azure services.

Q: Can KQL be used with any Azure service?

A: KQL is primarily used with Azure Data Explorer and services that support Log Analytics, such as Azure Monitor and Azure Security Center, making it versatile but not universally applicable to all Azure services.

Q: How can I share my Azure Workbook with others?

A: You can share your Azure Workbook by saving it and then using the sharing options available in the Azure portal to grant access to other users or groups within your organization.

Q: What are some benefits of using KQL in Azure Workbooks?

A: Some benefits of using KQL in Azure Workbooks include its ability to handle large data sets, perform complex queries, and return results quickly, enabling in-depth analysis and visualization.

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

A: You can create various visualizations in Azure Workbooks, including charts, tables, grids, and maps, tailored to represent the data in the most informative way.

Q: Is there a learning curve associated with KQL?

A: Yes, while KQL is designed to be user-friendly, there is a learning curve involved, especially for users unfamiliar with query languages. However, resources and documentation are available to assist in learning KQL.

Q: Can I automate the reports generated in Azure Workbooks?

A: While Azure Workbooks itself does not have built-in automation features, you can export the data and integrate it with other Azure services to automate reporting processes.

Q: How do I optimize my KQL queries for better performance?

A: You can optimize KQL queries by minimizing the amount of data processed, using appropriate filtering and aggregation functions, and ensuring your queries are well-structured and efficient.

Q: Are Azure Workbooks suitable for real-time data analysis?

A: Yes, Azure Workbooks can be used for real-time data analysis, especially when connected to live data sources in Azure that support real-time querying.

Q: What types of users benefit from Azure Workbooks and KQL?

A: A wide range of users can benefit from Azure Workbooks and KQL, including data analysts, IT professionals, security teams, and business decision-makers who need insights from their data.

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azure workbooks kql: *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 kql: Microsoft Defender for Cloud Cookbook Sasha Kranjac, 2022-07-22 Effectively secure their cloud and hybrid infrastructure, how to centrally manage security, and improve organizational security posture Key Features • Implement and optimize security posture in Azure, hybrid, and multi-cloud environments • Understand Microsoft Defender for Cloud and its features • Protect workloads using Microsoft Defender for Cloud's threat detection and prevention capabilities Book Description Microsoft Defender for Cloud is a multi-cloud and hybrid cloud security posture management solution that enables security administrators to build cyber defense for their Azure and non-Azure resources by providing both recommendations and security protection capabilities. This book will start with a foundational overview of Microsoft Defender for Cloud and its core capabilities. Then, the reader is taken on a journey from enabling the service, selecting the correct tier, and configuring the data collection, to working on remediation. Next, we will continue with hands-on guidance on how to implement several security features of Microsoft Defender for Cloud, finishing with monitoring and maintenance-related topics, gaining visibility in advanced threat protection in distributed infrastructure and preventing security failures through automation. By the end of this book, you will know how to get a view of your security posture and where to optimize security protection in your environment as well as the ins and outs of Microsoft Defender for Cloud. What you will learn • Understand Microsoft Defender for Cloud features and capabilities • Understand the fundamentals of building a cloud security posture and defending your cloud and on-premises resources • Implement and optimize security in Azure, multi-cloud and hybrid environments through the single pane of glass - Microsoft Defender for Cloud • Harden your security posture, identify, track and remediate vulnerabilities • Improve and harden your security and services security posture with Microsoft Defender for Cloud benchmarks and best practices • Detect and fix threats to services and resources Who this book is for This book is for Security engineers, systems administrators, security professionals, IT professionals, system architects, and developers. Anyone whose responsibilities include maintaining security posture, identifying, and remediating vulnerabilities, and securing cloud and hybrid infrastructure. Anyone who is willing to learn about security in Azure and to build secure Azure and hybrid infrastructure, to improve their security posture in Azure, hybrid and multi-cloud environments by leveraging all the features within Microsoft Defender for Cloud.

azure workbooks kql: 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 kql: 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 kql: Microsoft Azure Sentinel Yuri Diogenes, Nicholas DiCola, Tiander Turpijn, 2022-08-05 Build next-generation security operations with Microsoft Sentinel Microsoft Sentinel is the scalable, cloud-native, security information and event management (SIEM) solution for automating and streamlining threat identification and response across your enterprise. Now, three leading experts guide you step-by-step through planning, deployment, and operations, helping you use Microsoft Sentinel to escape the complexity and scalability challenges of traditional solutions. Fully updated for the latest enhancements, this edition introduces new use cases for investigation, hunting, automation, and orchestration across your enterprise and all your clouds. The authors clearly introduce each service, concisely explain all new concepts, and present proven best practices for maximizing Microsoft Sentinel's value throughout security operations. Three of Microsoft's leading security operations experts show how to: Review emerging challenges that make better cyberdefense an urgent priority See how Microsoft Sentinel responds by unifying alert detection, threat visibility, proactive hunting, and threat response Explore components, architecture, design, and initial configuration Ingest alerts and raw logs from all sources you need to monitor Define and validate rules that prevent alert fatigue Use threat intelligence, machine learning, and

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azure workbooks kql: Mastering Azure Active Directory Robert Johnson, 2025-01-17 Mastering Azure Active Directory: A Comprehensive Guide to Identity Management is an authoritative resource that equips IT professionals and system administrators with the essential knowledge required to harness the full potential of Azure AD. This book thoroughly explores the intricacies of identity management within the Azure ecosystem, offering a detailed analysis of user and group management, application integration, and device mobility, ensuring a robust foundation for secure and efficient IT operations. Each chapter delves into critical aspects of Azure AD, from initial setup and configuration to advanced features like B2B collaboration and identity protection. Readers will gain practical insights into best practices, troubleshooting, and compliance strategies that enhance security and streamline operations. Whether you're managing a small business or a large enterprise, this guide offers invaluable strategies to maximize Azure AD capabilities, supporting the strategic goals of modern organizations striving for digital transformation.

azure workbooks kql: *Cloud Observability with Azure Monitor* José Ángel Fernández, Manuel Lázaro Ramírez, 2024-11-22 Implement real-time monitoring, visualization, analytics, and troubleshooting strategies on Azure to ensure optimal performance and reliability in your cloud environment Key Features Monitor Azure-native, hybrid, and multi-cloud infrastructure effectively Design proactive incident responses and visualization dashboards for configuring, optimizing, and monitoring data Implement strategies for monitoring Azure applications using real-world case studies Purchase of the print or Kindle book includes a free PDF eBook Book Description Cloud observability is complex and costly due to the use of hybrid and multi-cloud infrastructure as well as various Azure tools, hampering IT teams' ability to monitor and analyze issues. The authors distill their years of experience with Microsoft to share the strategic insights and practical skills needed to optimize performance, ensure reliability, and navigate the dynamic landscape of observability on Azure. You'll get an in-depth understanding of cloud observability and Azure Monitor basics, before getting to grips with the configuration and optimization of data sources and pipelines for effective monitoring. You'll learn about advanced data analysis techniques using metrics and the Kusto Query Language (KQL) for your logs, design proactive incident response strategies with automated alerts, and visualize reports via dashboards. Using hands-on examples and best practices, you'll explore the integration of Azure Monitor with Azure Arc and third-party tools, such as Datadog, Elastic Stack, or Dynatrace. You'll also implement artificial intelligence for IT Operations (AIOps) and secure monitoring for hybrid and multi-cloud environments, aligned with emerging trends. By the end of this book, you'll be able to develop robust and cost-optimized observability solutions for monitoring your Azure infrastructure and apps using Azure Monitor. What you will learn Get a holistic overview of cloud observability with Azure Monitor Configure and optimize data sources to monitor Azure solutions Analyze logs and metrics using advanced data analysis techniques with KQL Design proactive incident response strategies with automated alerts Visualize monitoring data through impactful dashboards and reports Extend observability to hybrid and multi-cloud environments with Azure Arc Build and implement monitoring solutions on Azure, aligned with industry standards Who this book is for If you're a seasoned cloud engineer, cloud architect, DevOps engineer, SRE, or an aspiring cloud practitioner eager to elevate your observability skills on Azure and implement monitoring strategies using Azure Monitor, then this book is for you. A basic understanding of Azure cloud services, cloud infrastructure management, and network virtualization will be helpful.

azure workbooks kql: Exam Ref AZ-303 Microsoft Azure Architect Technologies Timothy L. Warner, Mike Pfeiffer, Derek Schauland, Nicole Stevens, Gurvinder Singh, 2020-12-09 Prepare for Microsoft Exam AZ-303—and help demonstrate your real-world mastery of architecting high-value Microsoft Azure solutions for your organization or customers. Designed for modern IT professionals, this Exam Ref focuses on the critical thinking and decision-making acumen needed for success at the Microsoft Certified Expert level. Focus on the expertise measured by these objectives: • Implement and monitor an Azure infrastructure • Implement management and security solutions • Implement solutions for apps • Implement and manage data platforms This Microsoft Exam Ref: • Organizes its coverage by exam objectives • Features strategic, what-if scenarios to challenge you • Assumes you are an IT professional who wants to demonstrate your ability to design modern Microsoft Azure solutions involving compute, network, storage, and security About the Exam Exam AZ-303 focuses on knowledge needed to implement cloud infrastructure monitoring, storage accounts, and VMs (Windows and Linux); automate resource deployment and configuration; implement virtual networking and Azure Active Directory; implement and manage hybrid identities; manage Azure workloads; implement Azure Site Recovery; implement application infrastructure; manage application security; implement load balancing and network security; integrate Azure virtual networks with on-premises networks; implement and manage Azure governance solutions; manage Role-Based Access Control; implement application infrastructure and container-based apps; implement NoSQL and Azure SQL databases; and implement Azure SQL database managed instances. About Microsoft Certification Passing this exam and Exam AZ-304: Microsoft Azure Architect Design fulfills your requirements for the Microsoft Certified: Azure Solutions Architect Expert credential, demonstrating your expertise in compute, network, storage, and security for designing and implementing modern cloudbased solutions that run on Microsoft Azure. See full details at: microsoft.com/learn

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or experienced security professional, cloud administrator, architect, or developer who wants to understand how to secure your Azure environment and workloads, this book is for you. Beginners without foundational knowledge of the Azure cloud platform might progress more slowly, but those who know the basics will have no trouble following along.

azure workbooks kql: Microsoft Identity and Access Administrator Exam Guide Dwayne Natwick, Shannon Kuehn, 2022-03-10 This certification guide focuses on identity solutions and strategies that will help you prepare for Microsoft Identity and Access Administrator certification, while enabling you to implement what you've learned in real-world scenarios Key Features Design, implement, and operate identity and access management systems using Azure AD Provide secure authentication and authorization access to enterprise applications Implement access and authentication for cloud-only and hybrid infrastructures Book Description Cloud technologies have made identity and access the new control plane for securing data. Without proper planning and discipline in deploying, monitoring, and managing identity and access for users, administrators, and guests, you may be compromising your infrastructure and data. This book is a preparation guide that covers all the objectives of the SC-300 exam, while teaching you about the identity and access services that are available from Microsoft and preparing you for real-world challenges. The book starts with an overview of the SC-300 exam and helps you understand identity and access management. As you progress to the implementation of IAM solutions, you'll learn to deploy secure identity and access within Microsoft 365 and Azure Active Directory. The book will take you from legacy on-premises identity solutions to modern and password-less authentication solutions that provide high-level security for identity and access. You'll focus on implementing access and authentication for cloud-only and hybrid infrastructures as well as understand how to protect them using the principles of zero trust. The book also features mock tests toward the end to help you prepare effectively for the exam. By the end of this book, you'll have learned how to plan, deploy, and manage identity and access solutions for Microsoft and hybrid infrastructures. What you will learn Understand core exam objectives to pass the SC-300 exam Implement an identity management solution with MS Azure AD Manage identity with multi-factor authentication (MFA), conditional access, and identity protection Design, implement, and monitor the integration of enterprise apps for Single Sign-On (SSO) Add apps to your identity and access solution with app registration Design and implement identity governance for your identity solution Who this book is for This book is for cloud security engineers, Microsoft 365 administrators, Microsoft 365 users, Microsoft 365 identity administrators, and anyone who wants to learn identity and access management and gain SC-300 certification. You should have a basic understanding of the fundamental services within Microsoft 365 and Azure Active Directory before getting started with this Microsoft book.

azure workbooks kql: Windows System Center 2022 Dujon Walsham, 2024-11-19 DESCRIPTION This book will cover the entire System Center at the latest release of 2022. Here, we will cover various grounds by not only covering the purpose of each product within the System Center suite but also introducing all the latest features and updates that come with each product. Windows System Center 2022 is a complete toolkit for simplifying and automating IT operations. This guide covers deploying, configuring, and managing essential System Center components, including Configuration Manager, Operations Manager, Service Manager, and more. Key topics include software deployment, patching, system monitoring, alerting, and virtual machine and data protection. The book also explores integration with Azure and Intune and provides best practices for managing hybrid cloud environments. By using System Center, organizations can boost IT efficiency, cut costs, and improve service delivery across IT functions. By the end of this book, you will have the skills to implement, configure, and manage System Center for a streamlined, secure, and automated IT environment. Confidently deploy software, monitor infrastructure, manage services, automate tasks, and protect data—key skills for mastering IT infrastructure. KEY FEATURES ● Full coverage of System Center 2022 features and components, ensuring complete understanding. ● Step-by-step guidance on deployment, configuration, and management for easy application. ● Real-world examples and best practices to enhance IT operations and efficiency. WHAT YOU WILL LEARN ●

Set up, configure, and manage System Center 2022 to streamline IT operations. ● Deploy and manage software, patches, and OS updates using Configuration Manager. ● Monitor infrastructure and troubleshoot issues efficiently with Operations Manager. ● Simplify IT services, including incident and change management, using Service Manager. ● Automate routine tasks and complex workflows with Orchestrator for smoother processes. WHO THIS BOOK IS FOR The target audience for the book is those passionate about System Center regardless of technical level, as well as stakeholders and other business-related role functions that want to understand how these products can enhance and scale their business. TABLE OF CONTENTS 1. Introduction to Microsoft System Center 2. Latest Updates and Features 3. OS and Application Deployment Optimizing of Configuration Manager 4. Deployment and Administration of Microsoft Configuration Manager 5. Monitoring Infrastructure with System Center Operations Manager 6. Deployment and Administration of System Center Operations Manager 7. Service Reporting and Analytics with System Center Service Manager 8. Deployment and Administration of System Center Service Manager 9. Building Scalable and Resilient Orchestration Environments 10. Deployment and Administration of System Center Orchestrator 11. Virtualization with System Center Virtual Machine Manager 12. Deployment and Administration of System Center VMM 13. Creating and Managing Backups with System Center DPM 14. Deployment and Administration of System Center DPM 15. Standardizing Management and Governance for Hybrid Settings 16. Conclusion and Future Trends

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FinOps practices across major public clouds, armed with insights and ideas to propel your organization toward business growth. What you will learn

- Examine challenges in cloud adoption and cost optimization
- Gain insight into the integration of FinOps within organizations
- Explore the synergies between FinOps and DevOps, IaC, and change management
- Leverage tools such as Azure Advisor, AWS CUDOS, and GCP cost reports
- Estimate and optimize costs using cloud services key features and best practices
- Implement cost dashboards and reports to improve visibility and control
- Understand FinOps roles and processes crucial for organizational success
- Apply FinOps through real-life examples and multicloud architectures

Who this book is for This book is for cloud engineers, cloud and solutions architects, as well as DevOps and SysOps engineers interested in learning more about FinOps and cloud financial management for efficiently architecting, designing, and operating software solutions and infrastructure using the public clouds. Additionally, team leads, project managers, and financial teams aiming to optimize cloud resources will also find this book useful. Prior knowledge of cloud computing and major public clouds is assumed.

azure workbooks kql: *Mastering the Art of Cloud Computing with Azure: Unraveling the Secrets of Expert-Level Programming* Steve Jones, 2025-02-19

Mastering the Art of Cloud Computing with Azure: Unraveling the Secrets of Expert-Level Programming is an indispensable resource for seasoned IT professionals and developers seeking to deepen their expertise in Microsoft's cloud platform. This comprehensive guide tackles the advanced aspects of Azure, emphasizing practical skills and in-depth knowledge needed to harness its full potential. From architecting resilient cloud-based solutions to implementing sophisticated security measures, each chapter is meticulously crafted to build on foundational concepts, empowering readers to excel in dynamic cloud environments. The book covers a broad spectrum of essential topics, including high-performance computing, advanced networking, and the intricacies of serverless computing with Azure Functions. Professionals will benefit from detailed discussions on leveraging Azure's Cognitive Services for AI and machine learning, seamlessly integrating DevOps for continuous integration and delivery, and mastering cost management techniques for efficient resource utilization. These insights, combined with real-world applications, offer readers the opportunity to implement cutting-edge strategies in their own cloud projects, ensuring they are well-equipped to tackle any challenge. Written in an elegant and professional style, *Mastering the Art of Cloud Computing with Azure* stands out as a valuable asset in the rapidly evolving tech landscape. By providing expert-level guidance and a strategic approach to Azure's ecosystem, this book not only enhances the reader's technical prowess but also fosters innovation and efficiency within organizations. Whether enhancing existing architectures or embarking on new cloud initiatives, readers will find the tools and knowledge required to make informed, impactful decisions, solidifying their position as leaders in cloud technology.

azure workbooks kql: *Azure Strategy and Implementation Guide* Jack Lee, Greg Leonardo, Jason Milgram, Dave Rendón, 2021-05-14

Leverage Azure's cloud capabilities to find the most optimized path to meet your firm's cloud infrastructure needs

Key Features

- Get to grips with the core Azure infrastructure technologies and solutions
- Develop the ability to opt for cloud design and architecture that best fits your organization
- Cover the entire spectrum of cloud migration from planning to implementation and best practices

Book Description

Microsoft Azure is a powerful cloud computing platform that offers a multitude of services and capabilities for organizations of any size moving to a cloud strategy. This fourth edition comes with the latest updates on cloud security fundamentals, hybrid cloud, cloud migration, Microsoft Azure Active Directory, and Windows Virtual Desktop. It encapsulates the entire spectrum of measures involved in Azure deployment that includes understanding Azure fundamentals, choosing a suitable cloud architecture, building on design principles, becoming familiar with Azure DevOps, and learning best practices for optimization and management. The book begins by introducing you to the Azure cloud platform and demonstrating the substantial scope of digital transformation and innovation that can be achieved with Azure's capabilities. The guide also acquaints you with practical insights into application modernization, Azure Infrastructure as a Service (IaaS) deployment, infrastructure management,

key application architectures, best practices of Azure DevOps, and Azure automation. By the end of this book, you will have acquired the skills required to drive Azure operations from the planning and cloud migration stage to cost management and troubleshooting. What you will learn Understand core Azure infrastructure technologies and solutions Carry out detailed planning for migrating applications to the cloud with Azure Deploy and run Azure infrastructure services Define roles and responsibilities in DevOps Get a firm grip on Azure security fundamentals Carry out cost optimization in Azure Who this book is for This book is designed to benefit Azure architects, cloud solution architects, Azure developers, Azure administrators, and anyone who wants to develop expertise in operating and administering the Azure cloud. Basic familiarity with operating systems and databases will help you grasp the concepts covered in this book.

azure workbooks kql: The Art of Site Reliability Engineering (SRE) with Azure Unai Huete Beloki, 2025-08-30 Gain a foundational understanding of SRE and learn its basic concepts and architectural best practices for deploying Azure IaaS, PaaS, and microservices-based resilient architectures. The new edition of the book has been updated with the latest Azure features for high-availability in storage, networking, and virtual machine computing. It also includes new updates in Azure SQL, Cosmos DB, and Azure Load Testing. Additionally, the integration of agents with Microsoft services has been covered in this revised edition. After reading this book, you will understand the underlying concepts of SRE and its implementation using Azure public cloud. What You Will Learn: Learn SRE definitions and metrics like SLI/SLO/SLA, Error Budget, toil, MTTR, MTTF, and MTBF Understand Azure Well-Architected Framework (WAF) and Disaster Recovery scenarios on Azure Understand resiliency and how to design resilient solutions in Azure for different architecture types and services Master core DevOps concepts and the difference between SRE and tools like Azure DevOps and GitHub Utilize Azure observability tools like Azure Monitor, Application Insights, KQL or Grafana Who Is This Book For: IT operations administrators, engineers, security team members, as well as developers or DevOps engineers.

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azure workbooks kql: 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 kql: Azure SQL Revealed Bob Ward, 2024-10-10

Access detailed content and examples on Azure SQL, a set of cloud services that allows for SQL Server to be deployed in the cloud. This book teaches the fundamentals of deployment, configuration, security, performance, and availability of Azure SQL from the perspective of these same tasks and capabilities in SQL Server. This distinct approach makes this book an ideal learning platform for readers familiar with SQL Server on-premises who want to migrate their skills toward providing cloud solutions to an enterprise market that is increasingly cloud-focused. If you know SQL Server, you will love this book. You will be able to take your existing knowledge of SQL Server and translate that knowledge into the world of cloud services from the Microsoft Azure platform, and in particular into Azure SQL. This book provides information never seen before about the history and architecture of Azure SQL. Author Bob Ward is a leading expert with access to and support from the Microsoft engineering team that built Azure SQL and related database cloud services. He presents powerful, behind-the-scenes insights into the workings of one of the most popular database cloud services in the industry. This book also brings you the latest innovations for Azure SQL including Azure Arc, Hyperscale, generative AI applications, Microsoft Copilots, and integration with the Microsoft Fabric.

What You Will Learn

- Know the history of Azure SQL
- Deploy, configure, and connect to Azure SQL
- Choose the correct way to deploy SQL Server in Azure
- Migrate existing SQL Server instances to Azure SQL
- Monitor and tune Azure SQL's performance to meet your needs
- Ensure your data and application are highly available
- Secure your data from attack and theft
- Learn the latest innovations for Azure SQL including Hyperscale
- Learn how to harness the power of AI for generative data-driven applications and Microsoft Copilots for assistance
- Learn how to integrate Azure SQL with the unified data platform, the Microsoft Fabric

Who This Book Is For

This book is designed to teach SQL Server in the Azure cloud to the SQL Server professional. Anyone who operates, manages, or develops

applications for SQL Server will benefit from this book. Readers will be able to translate their current knowledge of SQL Server—especially of SQL Server 2019 and 2022—directly to Azure. This book is ideal for database professionals looking to remain relevant as their customer base moves into the cloud.

azure workbooks kql: Exam Ref AZ-304 Microsoft Azure Architect Design Ashish Agrawal, Avinash Bhavsar, MJ Parker, Gurvinder Singh, 2021-07-21 Prepare for Microsoft Exam AZ-304—and help demonstrate your real-world mastery of designing and implementing solutions that run on Microsoft Azure, including key aspects such as compute, network, storage, and security. Designed for modern IT professionals, this Exam Ref focuses on the critical thinking and decision-making acumen needed for success at the Microsoft Certified Expert level. Focus on the expertise measured by these objectives: • Design monitoring • Design identity and security • Design data storage • Design business continuity • Design infrastructure This Microsoft Exam Ref: • Organizes its coverage by exam objectives • Features strategic, what-if scenarios to challenge you • Assumes you are an IT professional with significant experience and knowledge of IT operations, and expert-level Azure administration skills, and experience with Azure development and DevOps processes About the Exam Exam AZ-304 focuses on knowledge needed to design for cost optimization; design logging and monitoring solutions; design authentication, authorization, governance, and application security; design database solutions and data integrations; select storage accounts; design for backup/recovery and high availability; design compute and network infrastructure; design application architectures, and design migrations. About Microsoft Certification Passing this exam and Exam AZ-303: Microsoft Azure Architect Technologies fulfills your requirements for the Microsoft Certified: Azure Solutions Architect Expert credential, demonstrating your expertise in compute, network, storage, and security for designing and implementing modern cloud-based solutions that run on Microsoft Azure. See full details at: microsoft.com/learn

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