

azure workbooks templates

azure workbooks templates offer powerful tools for data visualization and reporting within the Azure ecosystem. They enable users to create rich, interactive reports that can aggregate data from various Azure services, enhancing decision-making processes and operational efficiency. This article delves into the significance of Azure Workbooks templates, their various types, how to use them effectively, and best practices for creating and customizing them. Additionally, we will explore common use cases and provide tips for leveraging these templates to optimize your Azure monitoring and analytics efforts.

- Introduction to Azure Workbooks Templates
- Types of Azure Workbooks Templates
- How to Use Azure Workbooks Templates
- Best Practices for Creating Azure Workbooks
- Common Use Cases for Azure Workbooks Templates
- Conclusion

Introduction to Azure Workbooks Templates

Azure Workbooks are part of the Azure Monitor suite, providing a flexible canvas for data visualization and reporting. The templates associated with Azure Workbooks enable users to quickly initiate data displays tailored to specific needs, streamlining the process of data analysis. By utilizing these templates, organizations can enhance their ability to monitor performance, troubleshoot issues, and visualize operational metrics. Azure Workbooks templates are designed to be highly customizable, allowing users to adapt them according to their unique requirements.

One of the significant advantages of Azure Workbooks templates is their ability to integrate with various Azure services, including Azure Log Analytics, Application Insights, and Azure Security Center. This integration allows users to pull data from different sources, making it easier to create comprehensive reports that provide insights across the entire Azure environment.

Types of Azure Workbooks Templates

Azure Workbooks templates can be categorized based on their intended use and the data they visualize. Understanding the different types available can help users select the most appropriate template for their needs.

Predefined Templates

Predefined templates are built-in options provided by Azure that cover common scenarios. These templates are ready to use and require minimal setup. They typically include:

- Performance monitoring for virtual machines
- Application performance insights
- Security alerts and recommendations

These templates are beneficial for users who need quick insights without extensive customization. They are designed to be straightforward, focusing on the most critical metrics for immediate analysis.

Custom Templates

Custom templates allow users to create their own reports tailored to specific business requirements. By leveraging the Azure Workbooks editor, users can define data sources, choose visualizations, and create layouts that suit their unique needs. Custom templates provide greater flexibility, enabling organizations to focus on the metrics that matter most to them.

How to Use Azure Workbooks Templates

Using Azure Workbooks templates involves a straightforward process that can be summarized in a few key steps. Whether you are starting with predefined templates or creating a custom one, the following guidelines will help you navigate the usage effectively.

Accessing Azure Workbooks

To begin, users must access Azure Workbooks through the Azure Portal. After logging in, navigate to the Azure Monitor section and select "Workbooks" from the available options. From there, users can choose to create a new workbook or select an existing template.

Creating a New Workbook

When creating a new workbook, users have the option to start from scratch or select a predefined template. For custom workbooks, users can add data sources, choose the type of visualization, and configure settings according to their requirements. The Azure Workbooks editor offers a user-friendly interface to facilitate this process.

Configuring Data Sources

Configuring data sources is crucial for pulling the right information into the workbook. Users can

connect to various Azure services, including:

- Azure Log Analytics
- Azure Monitor metrics
- Application Insights

After selecting the data source, users can define the queries required to extract the relevant data, ensuring that the workbook reflects accurate and useful information.

Best Practices for Creating Azure Workbooks

Creating effective Azure Workbooks requires adherence to best practices that enhance readability, usability, and overall effectiveness. Here are some essential strategies to consider:

Keep It Simple

Simplicity is key when designing workbooks. Avoid overcrowding the workbook with excessive information or too many visualizations. Focus on the most critical metrics that provide actionable insights. A well-structured workbook with clear visualizations promotes better understanding and decision-making.

Utilize Visualizations Effectively

Select the appropriate visualization types based on the data being presented. Different types of data benefit from different visualizations. For instance, line graphs are great for showing trends over time, while bar charts can effectively compare categorical data. Use a combination of visualizations to provide a holistic view of the data.

Regularly Review and Update

As organizational needs change, so should the workbooks. Regularly review the templates to ensure they remain relevant and useful. Update the templates to reflect changes in data sources, metrics, or business goals, keeping the information accurate and actionable.

Common Use Cases for Azure Workbooks Templates

Azure Workbooks templates can be utilized in various scenarios across different industries. Understanding these use cases can help organizations leverage the full potential of Azure Workbooks.

Operational Monitoring

One of the primary uses of Azure Workbooks templates is for operational monitoring. Organizations can create dashboards that track the health and performance of their applications and infrastructure. This includes monitoring server uptime, application response times, and resource utilization.

Security Monitoring

Another critical application is in security monitoring. Azure Workbooks can display security alerts, compliance status, and recommendations for improving security postures. Organizations can visualize potential threats and respond proactively to mitigate risks.

Performance Analysis

Performance analysis is essential for optimizing resources and improving user experiences. Azure Workbooks can aggregate performance data from various services to provide insights into application performance, helping teams identify bottlenecks and areas for improvement.

Conclusion

Azure Workbooks templates are invaluable tools for organizations leveraging the Azure ecosystem. They provide a framework for creating insightful visualizations and reports that enhance operational efficiency and decision-making. By understanding the types of templates available, how to use them effectively, and best practices for creation, users can maximize their benefits. As organizations continue to evolve, so too will the need for dynamic reporting solutions, making Azure Workbooks an essential component of modern data analytics strategies.

Q: What are Azure Workbooks templates?

A: Azure Workbooks templates are pre-designed layouts in Azure Workbooks that facilitate the visualization and reporting of data from various Azure services, helping users create insightful dashboards and reports quickly.

Q: How do I access Azure Workbooks templates?

A: You can access Azure Workbooks templates through the Azure Portal by navigating to the Azure Monitor section and selecting "Workbooks," where you can choose from predefined templates or create your own.

Q: Can I customize Azure Workbooks templates?

A: Yes, Azure Workbooks templates are highly customizable. Users can modify existing templates or create new ones by defining data sources, visualizations, and layouts according to their specific

reporting needs.

Q: What types of data sources can I use with Azure Workbooks?

A: Azure Workbooks can connect to various data sources, including Azure Log Analytics, Azure Monitor metrics, and Application Insights, allowing users to aggregate and visualize data across different Azure services.

Q: What are some best practices for creating Azure Workbooks?

A: Best practices include keeping workbooks simple, utilizing visualizations effectively, regularly reviewing and updating templates, and focusing on key metrics that provide actionable insights.

Q: How can Azure Workbooks help with security monitoring?

A: Azure Workbooks can display security alerts, compliance statuses, and security recommendations, enabling organizations to visualize potential threats and respond proactively to enhance their security posture.

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

A: Common use cases include operational monitoring, security monitoring, and performance analysis, helping organizations track application health, security threats, and performance metrics effectively.

Q: Are there predefined templates available in Azure Workbooks?

A: Yes, Azure Workbooks provide several predefined templates that cover common scenarios, such as performance monitoring for virtual machines and application insights, which can be used with minimal customization.

Q: Can I share Azure Workbooks with other team members?

A: Yes, Azure Workbooks can be shared with other team members or stakeholders within the Azure environment, allowing for collaborative analysis and reporting on the defined metrics.

Q: How often should I update my Azure Workbooks templates?

A: It is advisable to review and update Azure Workbooks templates regularly to ensure they reflect current business needs, data sources, and metrics, maintaining their relevance and effectiveness.

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azure workbooks templates: *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 templates: *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 templates: 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 templates: 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 templates: 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 templates: 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 templates: 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

azure workbooks templates: Mastering Azure Security Mustafa Toroman, Tom Janetscheck, 2022-04-28 Get to grips with artificial intelligence and cybersecurity techniques to respond to adversaries and incidents Key FeaturesLearn how to secure your Azure cloud workloads across applications and networksProtect your Azure infrastructure from cyber attacksDiscover tips and techniques for implementing, deploying, and maintaining secure cloud services using best practicesBook Description Security is integrated into every cloud, but this makes users put their guard down as they take cloud security for granted. Although the cloud provides higher security, keeping their resources secure is one of the biggest challenges many organizations face as threats are constantly evolving. Microsoft Azure offers a shared responsibility model that can address any challenge with the right approach. Revised to cover product updates up to early 2022, this book will help you explore a variety of services and features from Microsoft Azure that can help you overcome challenges in cloud security. You'll start by learning the most important security concepts in Azure, their implementation, and then advance to understanding how to keep resources secure. The book

will guide you through the tools available for monitoring Azure security and enforcing security and governance the right way. You'll also explore tools to detect threats before they can do any real damage and those that use machine learning and AI to analyze your security logs and detect anomalies. By the end of this cloud security book, you'll have understood cybersecurity in the cloud and be able to design secure solutions in Microsoft Azure. What you will learn Become well-versed with cloud security concepts Get the hang of managing cloud identities Understand the zero-trust approach Adopt the Azure security cloud infrastructure Protect and encrypt your data Grasp Azure network security concepts Discover how to keep cloud resources secure Implement cloud governance with security policies and rules Who this book is for This book is for Azure cloud professionals, Azure architects, and security professionals looking to implement secure cloud services using Azure Security Centre and other Azure security features. A solid understanding of fundamental security concepts and prior exposure to the Azure cloud will help you understand the key concepts covered in the book more effectively.

azure workbooks templates: Microsoft Azure Network Security Nicholas DiCola, Anthony Roman, 2021-05-12 Master a complete strategy for protecting any Azure cloud network environment! Network security is crucial to safely deploying and managing Azure cloud resources in any environment. Now, two of Microsoft's leading experts present a comprehensive, cloud-native approach to protecting your network, and safeguarding all your Azure systems and assets. Nicholas DiCola and Anthony Roman begin with a thoughtful overview of network security's role in the cloud. Next, they offer practical, real-world guidance on deploying cloud-native solutions for firewalling, DDOS, WAF, and other foundational services – all within a best-practice secure network architecture based on proven design patterns. Two of Microsoft's leading Azure network security experts show how to: Review Azure components and services for securing network infrastructure, and the threats to consider in using them Layer cloud security into a Zero Trust approach that helps limit or contain attacks Centrally direct and inspect traffic with the managed, stateful, Platform-as-a-Service Azure Firewall Improve visibility into Azure traffic with Deep Packet Inspection Optimize the way network and web application security work together Use Azure DDoS Protection (Basic and Standard) to mitigate Layer 3 (volumetric) and Layer 4 (protocol) DDoS attacks Enable log collection for Firewall, DDOS, WAF, and Bastion; and configure NSG Flow Logs and Traffic Analytics Continually monitor network security with Azure Sentinel, Security Center, and Network Watcher Customize queries, playbooks, workbooks, and alerts when Azure's robust out-of-the-box alerts and tools aren't enough Build and maintain secure architecture designs that scale smoothly to handle growing complexity About This Book For Security Operations (SecOps) analysts, cybersecurity/information security professionals, network security engineers, and other IT professionals For individuals with security responsibilities in any Azure environment, no matter how large, small, simple, or complex

azure workbooks templates: Microsoft Azure Security Technologies (AZ-500) - A Certification Guide Jayant Sharma, 2021-10-14 With Azure security, you can build a prosperous career in IT security. KEY FEATURES ● In-detail practical steps to fully grasp Azure Security concepts. ● Wide coverage of Azure Architecture, Azure Security services, and Azure Security implementation techniques. ● Covers multiple topics from other Azure certifications (AZ-303, AZ-304, and SC series). DESCRIPTION 'Microsoft Azure Security Technologies (AZ-500) - A Certification Guide' is a certification guide that helps IT professionals to start their careers as Azure Security Specialists by clearing the AZ-500 certification and proving their knowledge of Azure security services. Authored by an Azure security professional, this book takes readers through a series of steps to gain a deeper insight into Azure security services. This book will help readers to understand key concepts of the Azure AD architecture and various methods of hybrid authentication. It will help readers to use Azure AD security solutions like Azure MFA, Conditional Access, and PIM. It will help readers to maintain various industry standards for an Azure environment through Azure Policies and Azure Blueprints. This book will also help to build a secure Azure network using Azure VPN, Azure Firewall, Azure Front Door, Azure WAF, and other services. It will provide readers with a clear understanding of various security services, including Azure Key vault, Update management,

Microsoft Endpoint Protection, Azure Security Center, and Azure Sentinel in detail. This book will facilitate the improvement of readers' abilities with Azure Security services to sprint to a rewarding career. WHAT YOU WILL LEARN ● Configuring secure authentication and authorization for Azure AD identities. ● Advanced security configuration for Azure compute and network services. ● Hosting and authorizing secure applications in Azure. ● Best practices to secure Azure SQL and storage services. ● Monitoring Azure services through Azure monitor, security center, and Sentinel. ● Designing and maintaining a secure Azure IT infrastructure. WHO THIS BOOK IS FOR This book is for security engineers who want to enhance their career growth in implementing security controls, maintaining the security posture, managing identity and access, and protecting data, applications, and networks of Microsoft Azure. Intermediate-level knowledge of Azure terminology, concepts, networking, storage, and virtualization is required. TABLE OF CONTENTS 1. Managing Azure AD Identities and Application Access 2. Configuring Secure Access by Using Azure Active Directory 3. Managing Azure Access Control 4. Implementing Advance Network Security 5. Configuring Advance Security for Compute 6. Configuring Container Security 7. Monitoring Security by Using Azure Monitor 8. Monitoring Security by Using Azure Security Center 9. Monitoring Security by Using Azure Sentinel 10. Configuring Security for Azure Storage 11. Configuring Security for Azure SQL Databases

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azure workbooks templates: Exam Ref SC-200 Microsoft Security Operations Analyst Yuri Diogenes, Jake Mowrer, Sarah Young, 2021-08-31 Prepare for Microsoft Exam SC-200—and help demonstrate your real-world mastery of skills and knowledge required to work with stakeholders to secure IT systems, and to rapidly remediate active attacks. Designed for Windows administrators, Exam Ref focuses on the critical thinking and decision-making acumen needed for

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azure workbooks templates: Microsoft Azure Sentinel Yuri Diogenes, Nicholas DiCola, Jonathan Trull, 2020-02-25 Microsoft Azure Sentinel Plan, deploy, and operate Azure Sentinel, Microsoft's advanced cloud-based SIEM Microsoft's cloud-based Azure Sentinel helps you fully leverage advanced AI to automate threat identification and response - without the complexity and scalability challenges of traditional Security Information and Event Management (SIEM) solutions. Now, three of Microsoft's leading experts review all it can do, and guide you step by step through planning, deployment, and daily operations. Leveraging in-the-trenches experience supporting early customers, they cover everything from configuration to data ingestion, rule development to incident management... even proactive threat hunting to disrupt attacks before you're exploited. Three of Microsoft's leading security operations experts show how to:

- Use Azure Sentinel to respond to today's fast-evolving cybersecurity environment, and leverage the benefits of its cloud-native architecture
- Review threat intelligence essentials: attacker motivations, potential targets, and tactics, techniques, and procedures
- Explore Azure Sentinel components, architecture, design considerations, and initial configuration
- Ingest alert log data from services and endpoints you need to monitor
- Build and validate rules to analyze ingested data and create cases for investigation
- Prevent alert fatigue by projecting how many incidents each rule will generate
- Help Security Operation Centers (SOCs) seamlessly manage each incident's lifecycle
- Move towards proactive threat hunting: identify sophisticated threat behaviors and disrupt cyber kill chains before you're exploited
- Do more with data: use programmable Jupyter notebooks and their libraries for machine learning, visualization, and data analysis
- Use Playbooks to perform Security Orchestration, Automation and Response (SOAR)
- Save resources by automating responses to low-level events
- Create visualizations to spot trends, identify or clarify relationships, and speed decisions
- Integrate with partners and other third-parties, including Fortinet, AWS, and Palo Alto

azure workbooks templates: 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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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.

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