

MICROSOFT AZURE ARCHITECT DESIGN (AZ-304) PRACTICE TEST (SAMPLE)

STUDY GUIDE



**SAMPLE STUDY GUIDE
WITH LIMITED QUESTIONS**

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THE FULL VERSION STUDY GUIDE**

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Introduction

Preparing for a certification exam can feel overwhelming, but with the right tools, it becomes an opportunity to build confidence, sharpen your skills, and move one step closer to your goals. At Examzify, we believe that effective exam preparation isn't just about memorization, it's about understanding the material, identifying knowledge gaps, and building the test-taking strategies that lead to success.

This guide was designed to help you do exactly that.

Whether you're preparing for a licensing exam, professional certification, or entry-level qualification, this book offers structured practice to reinforce key concepts. You'll find a wide range of multiple-choice questions, each followed by clear explanations to help you understand not just the right answer, but why it's correct.

The content in this guide is based on real-world exam objectives and aligned with the types of questions and topics commonly found on official tests. It's ideal for learners who want to:

- Practice answering questions under realistic conditions,
- Improve accuracy and speed,
- Review explanations to strengthen weak areas, and
- Approach the exam with greater confidence.

We recommend using this book not as a stand-alone study tool, but alongside other resources like flashcards, textbooks, or hands-on training. For best results, we recommend working through each question, reflecting on the explanation provided, and revisiting the topics that challenge you most.

Remember: successful test preparation isn't about getting every question right the first time, it's about learning from your mistakes and improving over time. Stay focused, trust the process, and know that every page you turn brings you closer to success.

Let's begin.

How to Use This Guide

This guide is designed to help you study more effectively and approach your exam with confidence. Whether you're reviewing for the first time or doing a final refresh, here's how to get the most out of your Examzify study guide:

1. Start with a Diagnostic Review

Skim through the questions to get a sense of what you know and what you need to focus on. Your goal is to identify knowledge gaps early.

2. Study in Short, Focused Sessions

Break your study time into manageable blocks (e.g. 30 – 45 minutes). Review a handful of questions, reflect on the explanations.

3. Learn from the Explanations

After answering a question, always read the explanation, even if you got it right. It reinforces key points, corrects misunderstandings, and teaches subtle distinctions between similar answers.

4. Track Your Progress

Use bookmarks or notes (if reading digitally) to mark difficult questions. Revisit these regularly and track improvements over time.

5. Simulate the Real Exam

Once you're comfortable, try taking a full set of questions without pausing. Set a timer and simulate test-day conditions to build confidence and time management skills.

6. Repeat and Review

Don't just study once, repetition builds retention. Re-attempt questions after a few days and revisit explanations to reinforce learning. Pair this guide with other Examzify tools like flashcards, and digital practice tests to strengthen your preparation across formats.

There's no single right way to study, but consistent, thoughtful effort always wins. Use this guide flexibly, adapt the tips above to fit your pace and learning style. You've got this!

Questions

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- 1. If you deploy two Azure virtual machines in two regions with an Azure Application Gateway, does it meet the hosting requirements for a stateless web app?**
 - A. Yes
 - B. No
- 2. To manage network traffic from Azure virtual machines to an on-premises subnet through a virtual appliance, which options should be recommended?**
 - A. Configure Azure Traffic Manager and Implement Azure ExpressRoute
 - B. Configure a routing table and Implement an Azure virtual network
 - C. Configure Azure Load Balancer and Implement Azure Firewall
 - D. Implement Azure VPN Gateway and Configure Application Gateway
- 3. For Azure Blob storage, what is the minimum billing period for storage costs in the archive access tier?**
 - A. 30 days
 - B. 60 days
 - C. 180 days
 - D. 360 days
- 4. When new Azure subscriptions are added to a Microsoft Enterprise Agreement, which solution ensures compliance alerts are applied automatically?**
 - A. Azure Monitor action groups
 - B. Azure Policy
 - C. Azure Automation runbooks
 - D. Azure Resource Manager templates
- 5. To streamline service health notifications within Azure, which Azure component should be included for integration with Service Manager?**
 - A. Azure Monitor
 - B. Azure Automation
 - C. Application Insights
 - D. IT Service Management Connector (ITSM)

- 6. For hosting two on-premises SQL Server databases that require server-side transactions and minimal administrative overhead, what is the optimal Azure setup?**
- A. Two Azure SQL databases in an elastic pool
 - B. Two SQL Server databases on an Azure VM
 - C. Two Azure SQL databases on different Azure SQL Database servers
 - D. Two Azure SQL databases on the same Azure SQL Database managed instance
- 7. For managing and analyzing the network performance of virtual machines, which service is most appropriate?**
- A. Azure Application Insights
 - B. Azure Traffic Manager
 - C. Azure Monitor
 - D. Azure Network Watcher
- 8. Which Azure service is best suited for transforming data from Azure Blob storage to Azure Data Lake Storage using mapping data flow?**
- A. Azure Data Factory
 - B. Azure Databricks
 - C. Azure Storage Sync
 - D. Azure Data Box Gateway
- 9. For hosting a stateless web app in Azure with OS-level access and redundancy, does deploying a virtual machine scale set with autoscaling meet the requirements?**
- A. Yes
 - B. No
- 10. If an organization needs to prevent accidental deletion of archived data, what should be implemented?**
- A. Azure Policy restrictions.
 - B. Storage account access keys management.
 - C. Soft delete functionality.
 - D. Immutable storage policies.

Answers

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1. B
2. B
3. D
4. B
5. D
6. D
7. D
8. A
9. B
10. D

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Explanations

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1. If you deploy two Azure virtual machines in two regions with an Azure Application Gateway, does it meet the hosting requirements for a stateless web app?

A. Yes

B. No

The deployment of two Azure virtual machines in two regions with an Azure Application Gateway does not meet the hosting requirements for a stateless web app primarily because stateless web applications rely on session management that does not keep any session state on the server. In a typical stateless architecture, each request from a client is treated as an independent transaction, and it doesn't require any previous context from the server. Although using Azure Application Gateway helps in distributing traffic, simply having two virtual machines in two regions does not address potential issues with session state management if any session-related information is retained on a particular VM. For full compliance with stateless architecture, it is advisable to ensure that the application can effectively manage states without server-side dependencies, such as utilizing Azure services like Azure Blob Storage, Azure Cosmos DB, or even caching mechanisms that can store state information reliably and decouple state management from the server instance. Therefore, while the infrastructure setup is a good foundational step, it alone does not guarantee fulfillment of the stateless requirement without additional considerations for session management and data handling.

2. To manage network traffic from Azure virtual machines to an on-premises subnet through a virtual appliance, which options should be recommended?

A. Configure Azure Traffic Manager and Implement Azure ExpressRoute

B. Configure a routing table and Implement an Azure virtual network

C. Configure Azure Load Balancer and Implement Azure Firewall

D. Implement Azure VPN Gateway and Configure Application Gateway

To manage network traffic effectively from Azure virtual machines to an on-premises subnet through a virtual appliance, configuring a routing table and implementing an Azure virtual network is a strategic approach. A routing table in Azure helps define where network traffic should be directed. By configuring custom routes, you can ensure that traffic destined for your on-premises environments can be routed correctly through a virtual appliance, such as a network virtual appliance (NVA) or other security solutions. This setup allows for granular control over how traffic flows between Azure resources and the on-premises network. Additionally, establishing an Azure virtual network is foundational for any cloud-based architecture, providing a secure and isolated environment to host resources. It allows for the integration of both Azure and on-premises services, enabling seamless communication between the two networks. Other options do not provide the same direct approach to managing and routing traffic through a virtual appliance. For example, while Azure Traffic Manager and ExpressRoute are beneficial for traffic distribution and high-bandwidth connections, they don't specifically address the tactical management of routing traffic through a virtual appliance. Similarly, while Azure Load Balancer and Firewall are useful for managing incoming and outgoing traffic, they do not provide the necessary routing capability required in this scenario. Lastly, implementing Azure VPN

3. For Azure Blob storage, what is the minimum billing period for storage costs in the archive access tier?

- A. 30 days
- B. 60 days
- C. 180 days
- D. 360 days**

The minimum billing period for storage costs in the archive access tier of Azure Blob storage is 180 days. This means that once data is stored in the archive tier, customers are required to keep that data for at least 180 days before it can be deleted without incurring additional charges. This policy is designed to encourage users to use the archive tier for long-term storage needs rather than as a short-term solution. The archive tier is intended for data that is rarely accessed and is suitable for scenarios where data retrieval can take hours instead of minutes. While the other options imply shorter minimum billing periods, they do not align with the actual policy implemented by Azure, which establishes the 180-day minimum to balance cost-effectiveness with storage usage patterns. Understanding this billing structure is important for making informed decisions regarding data management and cost optimization in Azure services.

4. When new Azure subscriptions are added to a Microsoft Enterprise Agreement, which solution ensures compliance alerts are applied automatically?

- A. Azure Monitor action groups
- B. Azure Policy**
- C. Azure Automation runbooks
- D. Azure Resource Manager templates

The correct answer, Azure Policy, plays a critical role in ensuring compliance within Azure environments, particularly when new subscriptions are added under a Microsoft Enterprise Agreement. Azure Policy enables the creation, assignment, and management of policies that enforce specific rules and effects over your resources. This means that when a new subscription is added, the policies defined at the management group or subscription level can automatically evaluate and enforce compliance rules on resources within that subscription. By utilizing Azure Policy, you can ensure that resources adhere to specific compliance standards and regulatory requirements, often without manual intervention. For example, if a policy is set to restrict the types of virtual machines that can be deployed or to enforce tagging standards, these rules will automatically be applied to any new resources created in newly added subscriptions, thus providing a consistent compliance framework across the organization. Other options offered do not provide the same level of automation or governance specifically for compliance management of new subscriptions. Azure Monitor action groups are primarily focused on alerting and notifications rather than compliance enforcement. Azure Automation runbooks can automate tasks but do not inherently manage compliance. Azure Resource Manager templates are used for infrastructure deployment and configuration but do not enforce compliance rules. In summary, Azure Policy is specifically designed for automatically applying compliance alerts and enforcing governance across new and existing

5. To streamline service health notifications within Azure, which Azure component should be included for integration with Service Manager?

- A. Azure Monitor
- B. Azure Automation
- C. Application Insights

D. IT Service Management Connector (ITSM)

Integrating with Service Manager for streamlined service health notifications within Azure is best accomplished through the IT Service Management Connector (ITSM). The ITSM Connector is designed to facilitate communication between Azure services and IT Service Management tools. It allows for the automatic creation of incidents, service requests, and alerts in the Service Manager when specific Azure service health issues arise. By using ITSM, organizations can ensure that their IT personnel are immediately notified of service disruptions, enabling timely responses and minimizing downtime. The other options, while useful in their own contexts, do not directly facilitate this specific integration with Service Manager. Azure Monitor is focused on monitoring resources and collecting metrics, which can provide insights into performance and health but does not manage service health notifications directly. Azure Automation is primarily used for automating processes and workflows across Azure services but does not specialize in service health management notifications. Application Insights is a tool for monitoring application performance and diagnostics, tailored for developers looking to improve their applications, rather than managing service health notifications at an organizational level.

6. For hosting two on-premises SQL Server databases that require server-side transactions and minimal administrative overhead, what is the optimal Azure setup?

- A. Two Azure SQL databases in an elastic pool
- B. Two SQL Server databases on an Azure VM
- C. Two Azure SQL databases on different Azure SQL Database servers

D. Two Azure SQL databases on the same Azure SQL Database managed instance

The optimal setup for hosting two on-premises SQL Server databases that require server-side transactions and minimal administrative overhead is to use two Azure SQL databases on the same Azure SQL Database managed instance. This configuration offers the advantages of managed services while maintaining compatibility with traditional SQL Server features. By utilizing a managed instance, you benefit from a higher level of administrative ease compared to running SQL Server on an Azure VM, which typically requires more management tasks such as updates, backups, and patching. The managed instance abstracts many of these administrative duties away, allowing you to focus more on your databases rather than on the underlying infrastructure. Furthermore, a managed instance supports SQL Server features, including server-side transactions, which are crucial for maintaining data integrity during operations that involve multiple database entries. This feature ensures that all components of a transaction either succeed or fail together, making it highly suitable for enterprise-grade applications. Additionally, hosting both databases on the same managed instance offers a cost-effective solution, as it reduces the overhead associated with managing separate resources and allows for easier communication between the databases. This setup is particularly beneficial for applications that rely on complex transactions across multiple databases, streamlining the process and enhancing performance. In comparison, options like using Azure SQL databases in an elastic pool or on different

7. For managing and analyzing the network performance of virtual machines, which service is most appropriate?

- A. Azure Application Insights
- B. Azure Traffic Manager
- C. Azure Monitor
- D. Azure Network Watcher**

The most appropriate service for managing and analyzing the network performance of virtual machines is Azure Network Watcher. This service is specifically designed to monitor and diagnose conditions at the network level, focusing on aspects such as packet capture, connection troubleshooting, and network topology insights. With Azure Network Watcher, you can analyze traffic flow, understand performance issues, and gain visibility into the network-related activities affecting your virtual machines. In contrast, Azure Application Insights is mainly used for monitoring application performance and diagnosing issues in applications, while Azure Traffic Manager is focused on traffic routing and optimizing the performance of your applications across different regions. Azure Monitor provides a broader scope of monitoring across various Azure resources, but it does not specialize solely in network performance analysis like Azure Network Watcher does. Therefore, for targeted network performance management, Azure Network Watcher is the appropriate choice.

8. Which Azure service is best suited for transforming data from Azure Blob storage to Azure Data Lake Storage using mapping data flow?

- A. Azure Data Factory**
- B. Azure Databricks
- C. Azure Storage Sync
- D. Azure Data Box Gateway

Azure Data Factory is specifically designed for data integration and transformation tasks, making it the most suitable service for transforming data from Azure Blob storage to Azure Data Lake Storage using mapping data flow. Mapping data flow within Azure Data Factory allows users to visually design data transformation pipelines without writing complex code. It provides a rich set of transformations and allows for the orchestration of data movement and transformation, including data sourced from Azure Blob storage and data destined for Azure Data Lake Storage. This makes it particularly effective for ETL (extract, transform, load) processes. On the other hand, while Azure Databricks is powerful for processing data with Apache Spark, it requires more setup and is better suited for interactive data analytics and machine learning as opposed to standard data integration workflows. Azure Storage Sync is primarily for synchronizing data between local file servers and Azure file shares, which does not pertain to data transformation between blob storage and data lake. Azure Data Box Gateway is focused on transferring data between on-premises and Azure, not specifically for transforming data within Azure. Thus, Azure Data Factory stands out as the optimal solution for this specific requirement.

9. For hosting a stateless web app in Azure with OS-level access and redundancy, does deploying a virtual machine scale set with autoscaling meet the requirements?

A. Yes

B. No

When evaluating whether deploying a virtual machine scale set with autoscaling meets the requirements for hosting a stateless web app in Azure with OS-level access and redundancy, it's important to consider the characteristics of both the application and the Azure services involved. A virtual machine scale set allows you to deploy and manage a group of load-balanced VMs, providing high availability and the ability to automatically adjust the number of VMs based on demand. This scalability can effectively address the requirement for redundancy, as scale sets ensure that the application can handle varying loads by adjusting the number of running instances. However, while a virtual machine scale set does provide OS-level access, it may not be the most efficient or cost-effective option for hosting a stateless web application. Stateless applications can often be hosted using services that abstract infrastructure management, like Azure App Service or Azure Functions, which are designed to automatically scale and handle redundancy without requiring the complexities of managing VMs. Thus, while a virtual machine scale set does indeed fulfill the requirements for OS-level access and redundancy, the preference would often lean towards more specialized Azure services that optimize for stateless applications, which could streamline development and operational management, reducing the overhead typically associated with managing VMs. Therefore, the determination that deploying a virtual machine scale

10. If an organization needs to prevent accidental deletion of archived data, what should be implemented?

A. Azure Policy restrictions.

B. Storage account access keys management.

C. Soft delete functionality.

D. Immutable storage policies.

Implementing immutable storage policies is an effective way to prevent accidental deletion of archived data. These policies allow organizations to set a retention period during which data cannot be altered or deleted. Once immutable policies are in place, any data that falls under these policies remains unchanged until the specified retention period expires, providing a reliable safeguard against accidental or malicious deletions. This capability is particularly useful in compliance scenarios where data must be retained for legal and regulatory purposes. Immutable storage is often utilized in conjunction with Azure Blob Storage, where organizations can ensure that archived data remains intact and is preserved in its original form. In contrast, while Azure Policy restrictions could help manage the governance of resources, they may not specifically target the prevention of deletion on archived data. Similarly, managing storage account access keys enhances security but does not directly prevent data deletion. Soft delete functionality provides a temporary safety mechanism that allows deleted blobs to be recovered within a certain period, but it still relies on the user actively restoring deleted items, making it less robust for long-term preservation compared to immutable storage policies.

Next Steps

Congratulations on reaching the final section of this guide. You've taken a meaningful step toward passing your certification exam and advancing your career.

As you continue preparing, remember that consistent practice, review, and self-reflection are key to success. Make time to revisit difficult topics, simulate exam conditions, and track your progress along the way.

If you need help, have suggestions, or want to share feedback, we'd love to hear from you. Reach out to our team at hello@examzify.com.

Or visit your dedicated course page for more study tools and resources:

<https://az-304.examzify.com>

We wish you the very best on your exam journey. You've got this!

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