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

STUDY GUIDE



SAMPLE STUDY GUIDE WITH LIMITED QUESTIONS

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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.

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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!

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Questions

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1. **For a company working collaboratively with another organization, what role can be assigned to external developers to allow them to manage resources in Azure?**

   A. Owner role

   B. Contributor role

   C. Reader role

   D. Guest role

2. **Which solution can provide external developers with access to Azure Logic Apps using their existing OAuth 2.0 authentication?**

   A. Azure API Management

   B. Azure Active Directory B2B

   C. Azure Logic Apps with custom connectors

   D. Azure Event Hubs

3. **What type of virtual machines should be used to minimize costs for Azure Batch jobs running a parallel, compute-intensive workload?**

   A. Basic A-series virtual machines

   B. Low-priority virtual machines

   C. Burstable virtual machines

   D. Azure virtual machine sizes that support the Message Passing Interface (MPI) API

4. **What is the correct recovery time objective (RTO) that a recommended solution for a payroll system must meet?**

   A. 15 minutes

   B. 30 minutes

   C. 1 hour

   D. 24 hours

5. **If applications need to run in multiple environments without installation dependencies, which hosting solution is most suitable?**

   A. Azure Batch

   B. Azure Functions

   C. Azure Kubernetes Service

   D. Azure worker role

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6. Does creating a Logic App to run an image processing application every hour meet the required goal?

A. Yes

B. No

C. Only if configured for event-driven execution

D. Not unless it runs in a specific region

7. What is the recommended solution to minimize latency for an Azure SQL Database after enabling forced tunneling?

A. Azure SQL Database Managed Instance

B. Virtual network service endpoints

C. Always On availability groups

D. Azure virtual machines that run Microsoft SQL Server

8. What is required to utilize Azure Disk Encryption for encrypting virtual machine disks?

A. A passphrase

B. A key

C. A certificate

D. A secret

9. For a system that requires rapid disaster recovery with a maximum RTO of 120 minutes, which solution is best?

A. Azure Backup

B. Azure Site Recovery

C. Microsoft System Center DPM

D. Standard_LRS storage options

10. Where should the backups for financial accounting software be stored in Azure to minimize costs while maintaining compliance?

A. Azure SQL Database

B. Azure Blob storage with the Archive tier

C. Recovery Services vault

D. Azure Blob storage with the Cool tier

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Answers

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

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Explanations

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1. **For a company working collaboratively with another organization, what role can be assigned to external developers to allow them to manage resources in Azure?**

A. Owner role

B. Contributor role

C. Reader role

D. Guest role

Assigning the Contributor role to external developers enables them to manage resources in Azure without granting full administrative control. This role provides a balanced level of access, allowing users to create and manage all types of Azure resources, but not to assign roles to other users or manage access permissions. It is specifically designed for users who need the ability to manipulate resources as part of their collaborative work while ensuring that sensitive permissions related to access control remain restricted. The other roles serve different purposes that may not align with the need for collaborative management. The Owner role offers full control, including the ability to manage access, which may not be appropriate for external developers who should have limited permissions based solely on their collaborative tasks. The Reader role is too restrictive as it only allows viewing resources without making any changes. Lastly, the Guest role generally is meant for users who need to access resources without contributing to management, and does not allow any resource management capabilities. Therefore, the Contributor role is the most suitable choice for external developers collaborating on resource management in Azure.

2. **Which solution can provide external developers with access to Azure Logic Apps using their existing OAuth 2.0 authentication?**

A. Azure API Management

B. Azure Active Directory B2B

C. Azure Logic Apps with custom connectors

D. Azure Event Hubs

The solution that effectively provides external developers with access to Azure Logic Apps using their existing OAuth 2.0 authentication is custom connectors within Azure Logic Apps. Custom connectors allow you to extend the capabilities of Logic Apps by enabling integration with external services that use OAuth 2.0 for authentication. By utilizing custom connectors, developers can create tailored connections to different APIs, which include the necessary OAuth 2.0 authentication flow. This is particularly useful for external developers as it allows them to authenticate using their existing credentials, enabling seamless integration without the need for them to manage additional credentials or custom authentication methods. Other options, such as Azure API Management, while capable of managing APIs and providing access control, do not inherently build the OAuth 2.0 connection required for Logic Apps. Azure Active Directory B2B focuses on secure collaboration between organizations but does not directly facilitate API access to Logic Apps for external developers. Azure Event Hubs primarily acts as an event ingestion service for big data applications and does not pertain to the authentication features related to Logic Apps. Thus, utilizing custom connectors in conjunction with Logic Apps effectively meets the requirement of providing external developers access while supporting their existing OAuth 2.0 authentication framework.

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3. What type of virtual machines should be used to minimize costs for Azure Batch jobs running a parallel, compute-intensive workload?

A. Basic A-series virtual machines

B. Low-priority virtual machines

C. Burstable virtual machines

D. Azure virtual machine sizes that support the Message Passing Interface (MPI) API

To minimize costs for Azure Batch jobs that involve parallel, compute-intensive workloads, low-priority virtual machines are a suitable choice. These virtual machines are designed to offer significant cost savings compared to standard virtual machines by utilizing unused capacity in the Azure data centers. Since they are considered "interruptible," they are suitable for batch processing workloads where job completion time is flexible and not mission-critical. Low-priority VMs are ideal for scenarios where cost efficiency is paramount, as they can be up to 80% cheaper than regular VM pricing, allowing users to run large-scale batch operations without incurring prohibitive costs. They can be allocated in bulk, which is essential for parallel workloads, allowing a large number of VMs to operate simultaneously while keeping expenditure in check. Using basic A-series or burstable virtual machines may not provide the necessary performance characteristics for compute-intensive workloads, as they are more suited for light workloads. While Azure virtual machine sizes that support the Message Passing Interface (MPI) API could facilitate certain types of parallel processing, they do not inherently address the cost aspect as effectively as low-priority VMs do.

4. What is the correct recovery time objective (RTO) that a recommended solution for a payroll system must meet?

A. 15 minutes

B. 30 minutes

C. 1 hour

D. 24 hours

The recovery time objective (RTO) for a payroll system is crucial because it dictates how quickly the system must be fully operational again after a disruption. In the context of payroll, timely processing is essential to ensure that employees are paid on schedule, which can be a significant concern for any organization. A recommended RTO of 30 minutes indicates that the payroll system must be restored and fully functional within that time frame after an incident, ensuring minimal disruption to payroll operations. This timeframe allows for quick recovery actions and means that any downtime is kept to a bare minimum, aligning with business requirements regarding employee compensation. If the RTO were set to a longer period, such as 1 hour or 24 hours, it could result in payroll processing delays, which could lead to employee dissatisfaction and potential compliance issues related to timely payments. Setting a shorter RTO like 15 minutes may be overly ambitious for many payroll systems, potentially increasing costs or complexity without significant benefit. Therefore, 30 minutes strikes a balance between operational feasibility and business continuity requirements for payroll functions.

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5. If applications need to run in multiple environments without installation dependencies, which hosting solution is most suitable?

A. Azure Batch

B. Azure Functions

C. Azure Kubernetes Service

D. Azure worker role

The most suitable hosting solution for running applications in multiple environments without installation dependencies is Azure Kubernetes Service (AKS). AKS provides a managed Kubernetes environment where applications can be deployed in containers. Containerization abstracts the application from the underlying infrastructure, allowing it to run consistently across various environments. This encapsulation means that all necessary dependencies are included within the container, eliminating compatibility issues that may arise from different installation environments. With AKS, developers can focus on building and deploying applications while Kubernetes handles orchestration, scaling, and management of containers. This makes it an ideal solution for scenarios where consistent deployment and environment independence are crucial. In contrast, other options such as Azure Batch and Azure Functions have specific use cases that may not fully address the need for running applications in multiple environments without installation dependencies. Azure Batch is designed for processing large volumes of bulk data jobs but does not inherently provide the same level of flexibility across various environments like AKS does. Azure Functions, while great for serverless applications, may not be suitable for complex applications that need to maintain state or require a comprehensive setup. Azure worker roles also cater to cloud services but do not offer the same containerization benefits that AKS provides, making them less ideal for this specific requirement.

6. Does creating a Logic App to run an image processing application every hour meet the required goal?

A. Yes

B. No

C. Only if configured for event-driven execution

D. Not unless it runs in a specific region

Creating a Logic App to run an image processing application every hour does meet the required goal, primarily due to the capabilities of Logic Apps itself. Logic Apps are designed to automate workflows and can be scheduled to run at specified intervals, such as hourly executions. The Logic App can be configured with a recurrence trigger that allows it to initiate image processing automatically according to the set schedule. This means that after being set up, the image processing task will run without the need for manual initiation every hour. This approach is efficient and reliable for tasks that require regular execution, such as processing images. In scenarios where a continuous flow of images needs to be processed, the Logic App's ability to handle scheduled workflows directly aligns with the objective of maintaining timely updates, which is essential for applications that rely on current data or media. While other options mention conditions such as event-driven execution or regional constraints, they do not negate the effectiveness of a scheduled Logic App in performing the task as intended. The scheduled execution is straightforward and inherently supported by Logic Apps, confirming that the goal is met by this configuration.

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7. What is the recommended solution to minimize latency for an Azure SQL Database after enabling forced tunneling?

A. Azure SQL Database Managed Instance

B. Virtual network service endpoints

C. Always On availability groups

D. Azure virtual machines that run Microsoft SQL Server

Minimizing latency for an Azure SQL Database, particularly after enabling forced tunneling, can effectively be achieved through the use of virtual network service endpoints. When you enable service endpoints for Azure SQL Database, you extend your virtual network's private address space and identity directly to the Azure service over an optimized route. This can significantly reduce the round trip between your application and the database, thereby minimizing latency. Virtual network service endpoints offer secure direct connections to your Azure SQL Database while avoiding the need to go through the public internet. This is particularly beneficial in scenarios where forced tunneling is used, as it ensures that all traffic is routed through a specified on-premises network. By using service endpoints, your application can connect to the database with lower latency due to the optimized routing within the Azure backbone network. Additionally, service endpoints enhance security by allowing you to restrict access to your SQL Database only from specific virtual networks or subnets. The other options, such as Azure SQL Database Managed Instance, Always On availability groups, and Azure virtual machines that run Microsoft SQL Server, cater to different use cases and may provide benefits regarding availability, scalability, or on-premises SQL Server compatibility, but do not specifically address the latency concern associated with forced tunneling in the same effective manner

8. What is required to utilize Azure Disk Encryption for encrypting virtual machine disks?

A. A passphrase

B. A key

C. A certificate

D. A secret

To utilize Azure Disk Encryption for encrypting virtual machine disks, a key is essential, specifically a BitLocker key that is generated for the encrypted disks. Azure Disk Encryption leverages the BitLocker feature in Windows and uses Azure Key Vault to securely store and manage the encryption keys. When configuring Disk Encryption, you must provide a method for managing these keys, typically through Azure Key Vault. This ensures that the keys are securely stored and can be easily accessed by the Azure services that need to manage the encryption and decryption processes. While a passphrase, certificate, and secret are all relevant components of security in various contexts in Azure, they do not directly fulfill the specific requirement for disk encryption within Azure's framework. The focus here is primarily on the encryption keys that ensure the integrity and confidentiality of the data stored within the virtual machines. Thus, having a key is a fundamental necessity for successfully implementing Azure Disk Encryption.

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9. For a system that requires rapid disaster recovery with a maximum RTO of 120 minutes, which solution is best?

A. Azure Backup

B. Azure Site Recovery

C. Microsoft System Center DPM

D. Standard_LRS storage options

Selecting Azure Site Recovery as the best solution for achieving a rapid disaster recovery with a maximum Recovery Time Objective (RTO) of 120 minutes makes sense due to its design and features tailored for business continuity. Azure Site Recovery is specifically built for disaster recovery scenarios. It orchestrates the replication of virtual machines and physical servers to a secondary location, which can be in another Azure region or a different cloud provider, ensuring that in the event of an outage, the systems can be quickly failed over to the standby site. This streamlined orchestration allows for quick recovery of workloads, enabling organizations to meet stringent RTO requirements effectively. In comparison, while Azure Backup provides essential backup services and allows for recovery of data, it is not optimized for rapid full-scale disaster recovery. It is more suited for data retention and restoration, which, while important, does not focus specifically on minimizing downtime like Azure Site Recovery does. Microsoft System Center Data Protection Manager (DPM) also offers backup solutions but lacks the automated failover and failback capabilities that Azure Site Recovery provides. DPM is more suited for on-premises environments and has limitations when dealing with large-scale, cloud-based recovery scenarios. Standard_LRS storage options refer to a type of replication for Azure Blob storage and

10. Where should the backups for financial accounting software be stored in Azure to minimize costs while maintaining compliance?

A. Azure SQL Database

B. Azure Blob storage with the Archive tier

C. Recovery Services vault

D. Azure Blob storage with the Cool tier

Storing backups for financial accounting software primarily revolves around compliance and cost management. The Archive tier of Azure Blob storage is designed for data that is rarely accessed and stored for long periods, making it a cost-effective solution for backups. This tier significantly reduces storage costs compared to options that provide more immediate access to data. The Archive tier is compliant with various regulations focusing on long-term data retention and is suitable for financial records that need to be retained for compliance purposes, such as audits and legal requirements. Compliance often mandates that data be kept securely and unalterably, both of which can be effectively managed in Azure Blob storage via the Archive tier, while ensuring that it remains economically viable due to its low-cost structure. The other options, while also potentially valid in certain contexts, do not balance cost and compliance in the same way. For example, Azure SQL Database is designed for active workloads and is more expensive for storage compared to the Archive tier. The Recovery Services vault is typically used for disaster recovery and may not provide the lowest-cost storage option for long-term backups. Azure Blob storage with the Cool tier is optimized for infrequently accessed data, but not as cost-effective as the Archive tier for long-term storage.

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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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