

# Exam Questions AZ-304

Microsoft Azure Architect Design (beta)

<https://www.2passeasy.com/dumps/AZ-304/>



#### NEW QUESTION 1

- (Exam Topic 1)

You need to recommend a strategy for the web tier of WebApp1. The solution must minimize What should you recommend?

- A. Create a runbook that resizes virtual machines automatically to a smaller size outside of business hours.
- B. Configure the Scale Up settings for a web app.
- C. Deploy a virtual machine scale set that scales out on a 75 percent CPU threshold.
- D. Configure the Scale Out settings for a web app.

**Answer: D**

#### NEW QUESTION 2

- (Exam Topic 1)

You need to recommend a data storage strategy for WebApp1. What should you include in in the recommendation?

- A. an Azure SQL Database elastic pool
- B. a vCore-based Azure SQL database
- C. an Azure virtual machine that runs SQL Server
- D. a fixed-size DTU AzureSQL database.

**Answer: B**

#### NEW QUESTION 3

- (Exam Topic 2)

You need to recommend a solution for protecting the content of the back-end tier of the payment processing system. What should you include in the recommendations?

- A. Always Encrypted with deterministic encryption
- B. Transparent Date Encryption (TDE)
- C. Azure Storage Service Encryption
- D. Always Encrypted with randomized encryption

**Answer: A**

#### NEW QUESTION 4

- (Exam Topic 2)

You need to recommend a solution for data of the historical transaction query system.

What should you include in the recommendation? To answer, Select the appropriate or options in the answer area.

NOTE: Each correct selection is worth one point

### Answer Area

Sizing requirements:

	▼
A table that has unlimited capacity	
A table that has a fixed capacity	
Multiple tables that have unlimited capacity	
Multiple tables that have fixed capacity	

Resiliency:

	▼
An additional read region	
An availability set	
An availability zone	

- A. Mastered
- B. Not Mastered

**Answer: A**

**Explanation:**

## Answer Area

Sizing requirements:

▼

A table that has unlimited capacity
A table that has a fixed capacity
Multiple tables that have unlimited capacity
Multiple tables that have fixed capacity

Resiliency:

▼

An additional read region
An availability set
An availability zone

### NEW QUESTION 5

- (Exam Topic 3)

You have an Azure Active Directory (Azure AD) tenant.

You plan to deploy Azure Cosmos DB databases that will use the SQL API.

You need to recommend a solution to provide specific Azure AD user accounts with read access to the Cosmos DB databases.

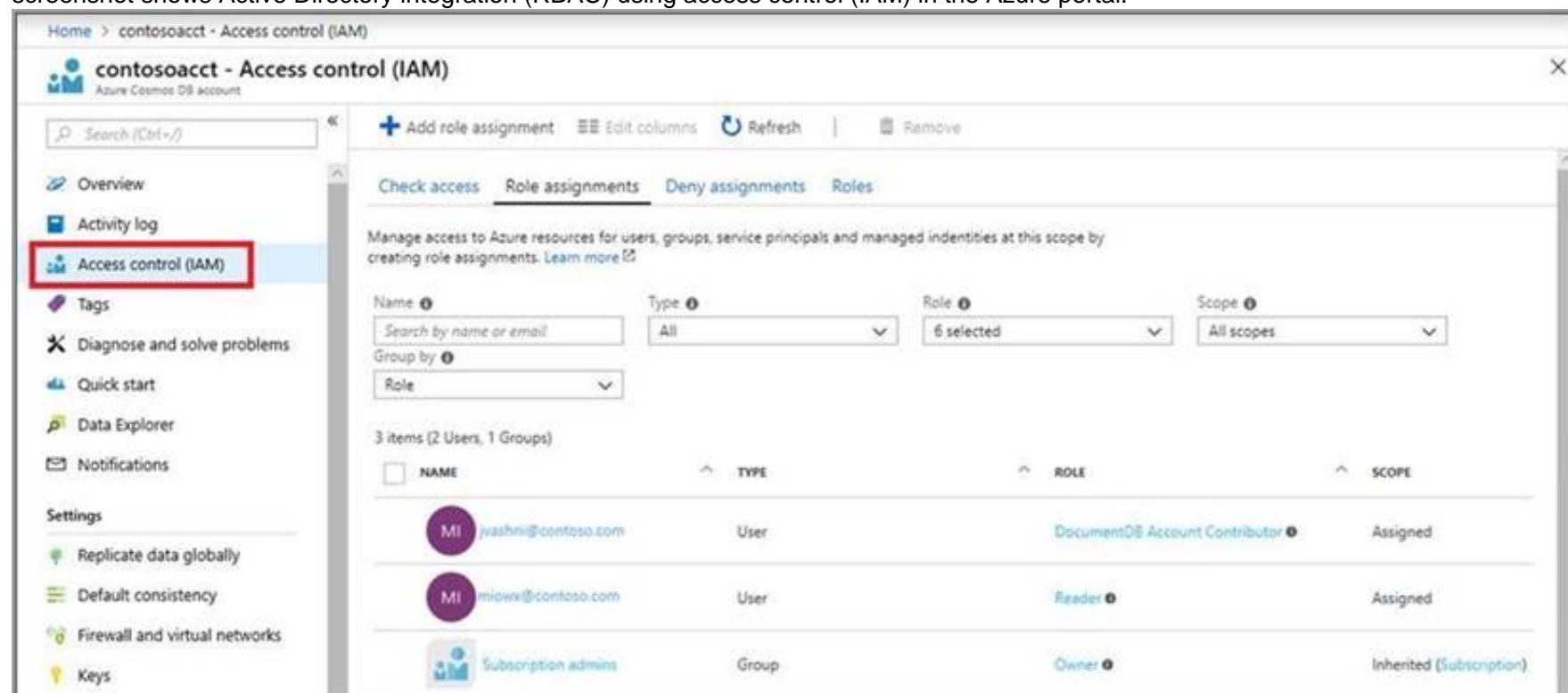
What should you include in the recommendation?

- A. a resource token and an Access control (IAM) role assignment
- B. shared access signatures (SAS) and conditional access policies
- C. master keys and Azure Information Protection policies
- D. certificates and Azure Key Vault

**Answer: A**

#### Explanation:

The Access control (IAM) pane in the Azure portal is used to configure role-based access control on Azure Cosmos resources. The roles are applied to users, groups, service principals, and managed identities in Active Directory. You can use built-in roles or custom roles for individuals and groups. The following screenshot shows Active Directory integration (RBAC) using access control (IAM) in the Azure portal:



Reference:

<https://docs.microsoft.com/en-us/azure/cosmos-db/role-based-access-control>

### NEW QUESTION 6

- (Exam Topic 3)

You have 70 TB of files on your on-premises file server.

You need to recommend solution for importing data to Azure. The solution must minimize cost. What Azure service should you recommend?

- A. Azure StorSimple
- B. Azure Batch
- C. Azure Data Box
- D. Azure Stack

**Answer: C**

#### Explanation:

Microsoft has engineered an extremely powerful solution that helps customers get their data to the Azure public cloud in a cost-effective, secure, and efficient

manner with powerful Azure and machine learning at play. The solution is called Data Box.

Data Box and is in general availability status. It is a rugged device that allows organizations to have 100 TB of capacity on which to copy their data and then send it to be transferred to Azure.

Reference:

<https://www.vembu.com/blog/what-is-microsoft-azure-data-box-disk-edge-heavy-gateway-overview/>

#### NEW QUESTION 7

- (Exam Topic 3)

Your company plans to publish APIs for its services by using Azure API Management. You discover that service responses include the ASP.NET-Version header. You need to recommend a solution to remove ASP.NET-Version from the response of the published APIs. What should you include in the recommendation?

- A. a new product
- B. a modification to the URL scheme
- C. a new policy
- D. a new revision

**Answer:** C

#### Explanation:

References:

<https://docs.microsoft.com/en-us/azure/api-management/transform-api>

#### NEW QUESTION 8

- (Exam Topic 3)

You have an on-premises Hyper-V cluster. The cluster contains Hyper-V hosts that run Windows Server 2016 Datacenter. The hosts are licensed under a Microsoft Enterprise Agreement that has Software Assurance.

The Hyper-V cluster hosts 3 virtual machines that run Windows Server 2012 R2. Each virtual machine runs a different workload. The workloads have predictable consumption patterns.

You plan to replace the virtual machines with Azure virtual machines that run Windows Server 2016. The virtual machines will be sized according to the consumption pattern of each workload.

You need to recommend a solution to minimize the compute costs of the Azure virtual machines.

Which two recommendations should you include in the solution? Each correct answer presents part of the solution.

NOTE: Each correct selection is worth one point.

- A. Purchase Azure Reserved Virtual Machine Instances for the Azure virtual machines
- B. Create a virtual machine scale set that uses autoscaling
- C. Configure a spending limit in the Azure account center
- D. Create a lab in Azure DevTest Labs and place the Azure virtual machines in the lab
- E. Activate Azure Hybrid Benefit for the Azure virtual machines

**Answer:** AE

#### Explanation:

Reference:

<https://azure.microsoft.com/en-us/pricing/reserved-vm-instances/> <https://docs.microsoft.com/en-us/azure/virtual-machines/windows/hybrid-use-benefit-licensing>

#### NEW QUESTION 9

- (Exam Topic 3)

Note: This question is part of a series of questions that present the same scenario. Each question in the series contains a unique solution that might meet the stated goals. Some question sets might have more than one correct solution, while others might not have a correct solution.

After you answer a question in this section, you will NOT be able to return to it. As a result, these questions will not appear in the review screen.

You have an on-premises Hyper-V cluster that hosts 20 virtual machines. Some virtual machines run Windows Server 2016 and some run Linux.

You plan to migrate the virtual machines to an Azure subscription.

You need to recommend a solution to replicate the disks of the virtual machines to Azure. The solution must ensure that the virtual machines remain available during the migration of the disks.

Solution: You recommend implementing an Azure Storage account that has a file service and a blob service, and then using the Data Migration Assistant. Does this meet the goal?

- A. Yes
- B. No

**Answer:** B

#### Explanation:

Data Migration Assistant is used to migrate SQL databases. Instead use Azure Site Recovery.

References:

<https://docs.microsoft.com/en-us/azure/site-recovery/site-recovery-overview>

#### NEW QUESTION 10

- (Exam Topic 3)

You need to deploy resources to host a stateless web app in an Azure subscription. The solution must meet the following requirements:

- Provide access to the full .NET framework.
- Provide redundancy if an Azure region fails.
- Grant administrators access to the operating system to install custom application dependencies.

Solution: You deploy an Azure virtual machine to two Azure regions, and you deploy an Azure Application Gateway.

Does this meet the goal?

- A. Yes
- B. No



Answer: B

**Explanation:**

You need to deploy two Azure virtual machines to two Azure regions, but also create a Traffic Manager profile.

**NEW QUESTION 10**

- (Exam Topic 3)

Your company has the divisions shown in the following table.

Division	Azure subscription	Azure Active Directory (Azure AD) tenant
East	Sub1, Sub2	East.contoso.com
West	Sub3, Sub4	West.contoso.com


You plan to deploy a custom application to each subscription. The application will contain the following:

- > A resource group
- > An Azure web app
- > Custom role assignments
- > An Azure Cosmos DB account


You need to use Azure Blueprints to deploy the application to each subscription.

What is the minimum number of objects required to deploy the application? To answer, select the appropriate options in the answer area.


NOTE: Each correct selection is worth one point.

Management groups: 

1
2
3
4

Blueprint definitions: 

1
2
3
4

Blueprint assignments: 

1
2
3
4

- A. Mastered
- B. Not Mastered

Answer: A

**Explanation:**

Box 1: 2

One management group for East, and one for West.

When creating a blueprint definition, you'll define where the blueprint is saved. Blueprints can be saved to a management group or subscription that you have Contributor access to. If the location is a management group, the blueprint is available to assign to any child subscription of that management group.

Box 2: 1

One definition as the you plan to deploy a custom application to each subscription.

With Azure Blueprints, the relationship between the blueprint definition (what should be deployed) and the blueprint assignment (what was deployed) is preserved.

Box 3: 4

One assignment for each subscription. Reference:

<https://docs.microsoft.com/en-us/azure/governance/blueprints/overview>

**NEW QUESTION 13**

- (Exam Topic 3)

You have an on-premises network that uses an IP address space of 172.16.0.0/16. You plan to deploy 25 virtual machines to a new Azure subscription.

You identify the following technical requirements.

- > All Azure virtual machines must be placed on the same subnet subnet1.
- > All the Azure virtual machines must be able to communicate with all on-premises servers.
- > The servers must be able to communicate between the on-premises network and Azure by using a site-to-site VPN.

You need to recommend a subnet design that meets the technical requirements.

What should you include in the recommendation? To answer, drag the appropriate network addresses to the correct subnet. Each network address may be used once, more than once or not at all. You may need to drag the split bar between panes or scroll to view content.

NOTE: Each correct selection is worth one point.

### Network Addresses

172.16.0.0/16
172.16.1.0/28
192.168.0.0/24
192.168.1.0/28

### Answer Area

Subnet1:	Network address
Gateway subnet:	Network address

- A. Mastered  
 B. Not Mastered

**Answer:** A

**Explanation:**

### Network Addresses

172.16.0.0/16
172.16.1.0/28
192.168.0.0/24
192.168.1.0/28

### Answer Area

Subnet1:	192.168.0.0/24
Gateway subnet:	192.168.1.0/28

### NEW QUESTION 14

- (Exam Topic 3)

You have an Azure subscription that is linked to an Azure Active Directory (Azure AD) tenant. The subscription contains 10 resource groups, one for each department at your company. Each department has a specific spending limit for its Azure resources.

You need to ensure that when a department reaches its spending limit, the compute resources of the department shut down automatically.

Which two features should you include in the solution? Each correct answer presents part of the solution.

NOTE: Each correct selection is worth one point.

- A. Azure Logic Apps  
 B. Azure Monitor alerts  
 C. the spending limit of an Azure account  
 D. Cost Management budgets  
 E. Azure Log Analytics alerts

**Answer:** CD

**Explanation:**

C: The spending limit in Azure prevents spending over your credit amount. All new customers who sign up for an Azure free account or subscription types that include credits over multiple months have the spending limit turned on by default. The spending limit is equal to the amount of credit and it can't be changed.

D: Turn on the spending limit after removing

This feature is available only when the spending limit has been removed indefinitely for subscription types that include credits over multiple months. You can use this feature to turn on your spending limit automatically at the start of the next billing period.

- > Sign in to the Azure portal as the Account Administrator.
- > Search for Cost Management + Billing.
- > Etc.

Reference:

<https://docs.microsoft.com/en-us/azure/cost-management-billing/manage/spending-limit>

### NEW QUESTION 18

- (Exam Topic 3)

You have an Azure Active Directory (Azure AD) tenant.

You plan to provide users with access to shared files by using Azure Storage. The users will be provided with different levels of access to various Azure file shares based on their user account or their group membership.

You need to recommend which additional Azure services must be used to support the planned deployment. What should you include in the recommendation?

- A. an Azure AD enterprise application  
 B. Azure Information Protection  
 C. an Azure AD Domain Services (Azure AD DS) instance  
 D. an Azure Front Door instance

**Answer:** C

**Explanation:**

Azure File supports identity-based authentication over Server Message Block (SMB) through two types of Domain Services: on-premises Active Directory Domain Services (AD DS) and Azure Active Directory Domain Services (Azure AD DS).

Reference:

<https://docs.microsoft.com/en-us/azure/storage/files/storage-files-identity-auth-active-directory-domain-service>

**NEW QUESTION 21**

- (Exam Topic 3)

You have 100 servers that run Windows Server 2012 R2 and host Microsoft SQL Server 2012 R2 instances. The instances host databases that have the following characteristics:

➤ The largest database is currently 3 TB. None of the databases will ever exceed 4 TB.

➤ Stored procedures are implemented by using CLR.

You plan to move all the data from SQL Server to Azure.

You need to recommend an Azure service to host the databases. The solution must meet the following requirements:

➤ Whenever possible, minimize management overhead for the migrated databases.

➤ Minimize the number of database changes required to facilitate the migration.

➤ Ensure that users can authenticate by using their Active Directory credentials.

What should you include in the recommendation?

A. Azure SQL Database single databases

B. Azure SQL Database Managed Instance

C. Azure SQL Database elastic pools

D. SQL Server 2016 on Azure virtual machines

**Answer: B**

**Explanation:**

References:

<https://docs.microsoft.com/en-us/azure/sql-database/sql-database-managed-instance>

**NEW QUESTION 26**

- (Exam Topic 3)

Your company purchases an app named App1.

You plan to run App1 on seven Azure virtual machines in an Availability Set. The number of fault domains is set to 3. The number of update domains is set to 20.

You need to identify how many App1 instances will remain available during a period of planned maintenance. How many App1 instances should you identify?

A. 1

B. 2

C. 6

D. 7

**Answer: C**

**Explanation:**

Only one update domain is rebooted at a time. Here there are 7 update domains with one VM each (and 13 update domains with no VM).

Reference:

<https://docs.microsoft.com/en-us/azure/virtual-machines/windows/manage-availability>

**NEW QUESTION 28**

- (Exam Topic 3)

Your company has users who work remotely from laptops.

You plan to move some of the applications accessed by the remote users to Azure virtual machines. The users will access the applications in Azure by using a point-to-site VPN connection. You will use certificates generated from an on-premises-based certification authority (CA).

You need to recommend which certificates are required for the deployment.

What should you include in the recommendation? To answer, drag the appropriate certificates to the correct targets. Each certificate may be used once, more than once, or not at all. You may need to drag the split bar between panes or scroll to view content.

NOTE: Each correct selection is worth one point.

Certificates	Answer Area
A root CA certificate that has the private key	Trusted Root Certification Authorities certificate store on each laptop: Certificate
A root CA certificate that has the public key	The users' Personal store on each laptop: Certificate
A user certificate that has the private key	The Azure VPN gateway: Certificate
A user certificate that has the public key	

A. Mastered

B. Not Mastered

**Answer: A**

Explanation:

Certificates	Answer Area
A root CA certificate that has the private key	Trusted Root Certification Authorities certificate store on each laptop:
A root CA certificate that has the public key	The users' Personal store on each laptop:
A user certificate that has the private key	The Azure VPN gateway:
A user certificate that has the public key	

### NEW QUESTION 30

- (Exam Topic 3)

You configure the Diagnostics settings for an Azure SQL database as shown in the following exhibit.

Diagnostics settings

Save

Discard

Delete

Name

Diagnostics

☐ Archive to a storage account

☐ Stream to an event hub

☒ Send to Log Analytics

Subscription

Azure Pass - Sponsorship

Log Analytics Workspace

sk191124 ( westeurope )

log

☒ SQLInsights

☒ AutomaticTuning

☒ QueryStoreRuntimeStatistics

☒ QueryStoreWaitStatistics

☒ Errors

☒ DatabaseWaitStatistics

☒ Timeouts

☒ Blocks

☒ Deadlocks

Use the drop-down menus to select the answer choice that completes each statement based on the information presented in the graphic.  
 NOTE: Each correct selection is worth one point.



To perform real-time reporting by using Microsoft Power BI, you must first [answer choice].

	▼
clear Send to Log Analytics	
clear SQLInsights	
select Archive to a storage account	
select Stream to an event hub	

Diagnostics data can be reviewed in [answer choice].

	▼
Azure Analysis Services	
Azure Application Insights	
Azure SQL Analytics	
Microsoft SQL Server Analysis Services (SSAS)	
SQL Health Check	

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

To perform real-time reporting by using Microsoft Power BI, you must first [answer choice].

	▼
clear Send to Log Analytics	
clear SQLInsights	
select Archive to a storage account	
select Stream to an event hub	

Diagnostics data can be reviewed in [answer choice].

	▼
Azure Analysis Services	
Azure Application Insights	
Azure SQL Analytics	
Microsoft SQL Server Analysis Services (SSAS)	
SQL Health Check	

### NEW QUESTION 33

- (Exam Topic 3)

You have an Azure subscription that contains 100 virtual machines.

You plan to design a data protection strategy to encrypt the virtual disks.

You need to recommend a solution to encrypt the disks by using Azure Disk Encryption. The solution must provide the ability to encrypt operating system disks and data disks.

What should you include in the recommendation?

- A. a passphrase
- B. a certificate
- C. a key
- D. a secret

Answer: C

Explanation:

For enhanced virtual machine (VM) security and compliance, virtual disks in Azure can be encrypted. Disks are encrypted by using cryptographic keys that are secured in an Azure Key Vault. You control these cryptographic keys and can audit their use.

Reference:

<https://docs.microsoft.com/en-us/azure/virtual-machines/windows/encrypt-disks>

### NEW QUESTION 35

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