



# AZ-304<sup>Q&As</sup>

Microsoft Azure Architect Design Exam

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**QUESTION 1**

**HOTSPOT**

You plan to create a storage account and to save the files as shown in the following exhibit.



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.

Hot Area:

To access the files, you must [answer choice].

▼

generate a snapshot

modify the access tier

modify the blob type

The files will be stored [answer choice].

▼

at the highest storage cost

at the lowest data retrieval cost

at the lowest storage cost

Correct Answer:

To access the files, you must [answer choice].

▼

generate a snapshot

modify the access tier

modify the blob type

The files will be stored [answer choice].

▼

at the highest storage cost

at the lowest data retrieval cost

at the lowest storage cost



<https://docs.microsoft.com/en-us/azure/storage/blobs/storage-blob-storage-tiers#archive-access-tier-preview>

### QUESTION 2

**HOTSPOT** Your company is designing a multi-tenant application that will use elastic pools and Azure SQL databases. The application will be used by 30 customers. You need to design a storage solution for the application. The solution must meet the following requirements:

1. Operational costs must be minimized.
2. All customers must have their own database.
- 3.

The customer databases will be in one of the following three Azure regions: East US, North Europe, or South Africa North.

What is the minimum number of elastic pools and Azure SQL Database servers required?

To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Hot Area:

Elastic pools:

1
3
6
10
30

Azure SQL Database servers:

1
3
6
10
30

Correct Answer:



Elastic pools:

1
3
6
10
30

Azure SQL Database servers:

1
3
6
10
30

Box 1: 3

The server, its pools and databases must be in the same Azure region under the same subscription.

Box 2: 3

A server can have up to 5000 databases associated to it.

Reference:

<https://vincentlauzon.com/2016/12/18/azure-sql-elastic-pool-overview/>

### QUESTION 3

Note: This question is a part of 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 Azure subscription that contains a resource group named RG1.

You create an Azure Active Directory (Azure AD) group named ResearchUsers that contains the user accounts of all researchers.

You need to recommend a solution that meets the following requirements:



1.

The researchers must be allowed to create Azure virtual machines.

2.

The researchers must only be able to create Azure virtual machines by using specific Azure Resource Manager templates.

Solution: Create a lab in Azure DevTest Lab. Configure the DevTest Labs settings. Assign the DevTest Labs User role to the ResearchUsers group.

Does this meet the goal?

A. Yes

B. No

Correct Answer: B

Instead: On RG1, assign the Contributor role to the ResearchUsers group. Create a custom Azure Policy definition and assign the policy to RG1.

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#### QUESTION 4

Note: This question is a part of 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 are designing a storage solution to support on-premises resources and Azure-hosted resources.

You need to provide on-premises storage that has built-in replication to Azure.

Solution: You include Azure Table Storage in the design.

Does the solution meet the goal?

A. Yes

B. No

Correct Answer: B

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#### QUESTION 5

##### HOTSPOT

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:

1.

A resource group

2.

An Azure web app

3.

Custom role assignments

4.

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.

Hot Area:



Management groups:

	▼
1	
2	
3	
4	

Blueprint definitions:

	▼
1	
2	
3	
4	

Blueprint assignments:

	▼
1	
2	
3	
4	

Correct Answer:



Management groups:  ▼

1
2
3
4

Blueprint definitions:  ▼

1
2
3
4

Blueprint assignments:  ▼

1
2
3
4

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>





## QUESTION 6

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 Azure Storage account that contains two 1-GB data files named File1 and File2. The data files are set to use the archive access tier.

You need to ensure that File1 is accessible immediately when a retrieval request is initiated.

Solution: For File1, you set Access tier to Hot.

Does this meet the goal?

- A. Yes
- B. No

Correct Answer: A

The hot access tier has higher storage costs than cool and archive tiers, but the lowest access costs. Example usage scenarios for the hot access tier include:

1.

Data that's in active use or expected to be accessed (read from and written to) frequently.

2.

Data that's staged for processing and eventual migration to the cool access tier.

References: <https://docs.microsoft.com/en-us/azure/storage/blobs/storage-blob-storage-tiers>

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## QUESTION 7

Note: This question is a part of 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 are designing an Azure solution for a company that wants to move a .NET Core web application from an on-premises data center to Azure. The web application relies on a Microsoft SQL Server 2016 database on Windows Server 2016.

The database server will not move to Azure.

A separate networking team is responsible for configuring network permissions.



The company uses Azure ExpressRoute and has an ExpressRoute gateway connected to an Azure virtual network named VNET1.

You need to recommend a solution for deploying the web application.

Solution: Deploy the web application by using an Azure Kubernetes Service (AKS) container on VNET1.

Does this meet the goal?

A. Yes

B. No

Correct Answer: B

Instead, use VNet Integration.

Note: VNet Integration gives your web app access to resources in your virtual network. VNet Integration is often used to enable access from apps to a databases and web services running in your VNet.

Reference:

<https://docs.microsoft.com/en-us/azure/app-service/web-sites-integrate-with-vnet>

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## QUESTION 8

You have an on-premises Active Directory forest and an Azure Active Directory (Azure AD) tenant. All Azure AD users are assigned a Premium P1 license.

You deploy Azure AD Connect.

Which two features are available in this environment that can reduce operational overhead for your company's help desk? Each correct answer presents a complete solution.

NOTE: Each correct selection is worth one point.

- A. Azure AD Privileged Identity Management policies
- B. access reviews
- C. self-service password reset
- D. Microsoft Cloud App Security Conditional Access App Control
- E. password writeback

Correct Answer: CE

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## QUESTION 9

HOTSPOT

You manage a network that includes an on-premises Active Directory Domain Services domain and an Azure Active



Directory (Azure AD).

Employees are required to use different accounts when using on-premises or cloud resources. You must recommend a solution that lets employees sign in to all company resources by using a single account. The solution must implement an

identity provider. You need provide guidance on the different identity providers.

How should you describe each identity provider? To answer, select the appropriate description from each list in the answer area.

NOTE: Each correct selection is worth one point.

Hot Area:

Identity provider	Description
synchronized identity	<div style="border: 1px solid gray; padding: 2px;">▼</div> <div style="border: 1px solid gray; padding: 2px;">User management occurs on-premises. Azure AD authenticates employees by using on-premises passwords.</div> <div style="border: 1px solid gray; padding: 2px;">User management occurs on-premises. The on-premises domain controller authenticates employee credentials.</div> <div style="border: 1px solid gray; padding: 2px;">Both user management and authentication occur in Azure AD.</div>
federated identity	<div style="border: 1px solid gray; padding: 2px;">▼</div> <div style="border: 1px solid gray; padding: 2px;">User management occurs on-premises. Azure AD authenticates employees by using on-premises passwords.</div> <div style="border: 1px solid gray; padding: 2px;">User management occurs on-premises. The on-premises domain controller authenticates employee credentials.</div> <div style="border: 1px solid gray; padding: 2px;">Both user management and authentication occur in Azure AD.</div>

Correct Answer:

Identity provider	Description
synchronized identity	<div style="border: 1px solid gray; padding: 2px;">▼</div> <div style="border: 1px solid gray; padding: 2px; background-color: #e0ffe0;">User management occurs on-premises. Azure AD authenticates employees by using on-premises passwords.</div> <div style="border: 1px solid gray; padding: 2px;">User management occurs on-premises. The on-premises domain controller authenticates employee credentials.</div> <div style="border: 1px solid gray; padding: 2px;">Both user management and authentication occur in Azure AD.</div>
federated identity	<div style="border: 1px solid gray; padding: 2px;">▼</div> <div style="border: 1px solid gray; padding: 2px; background-color: #e0ffe0;">User management occurs on-premises. Azure AD authenticates employees by using on-premises passwords.</div> <div style="border: 1px solid gray; padding: 2px; background-color: #e0ffe0;">User management occurs on-premises. The on-premises domain controller authenticates employee credentials.</div> <div style="border: 1px solid gray; padding: 2px;">Both user management and authentication occur in Azure AD.</div>

Box1: User management occurs on-premises. Azure AD authenticates employees by using on- premises passwords.



## Azure AD Domain Services for hybrid organizations

Organizations with a hybrid IT infrastructure consume a mix of cloud resources and on-premises resources. Such organizations synchronize identity information from their on-premises directory to their Azure AD tenant. As hybrid

organizations look to migrate more of their on-premises applications to the cloud, especially legacy directory-aware applications, Azure AD Domain Services can be useful to them.

Example: Litware Corporation has deployed Azure AD Connect, to synchronize identity information from their on-premises directory to their Azure AD tenant. The identity information that is synchronized includes user accounts, their credential

hashes for authentication (password hash sync) and group memberships.

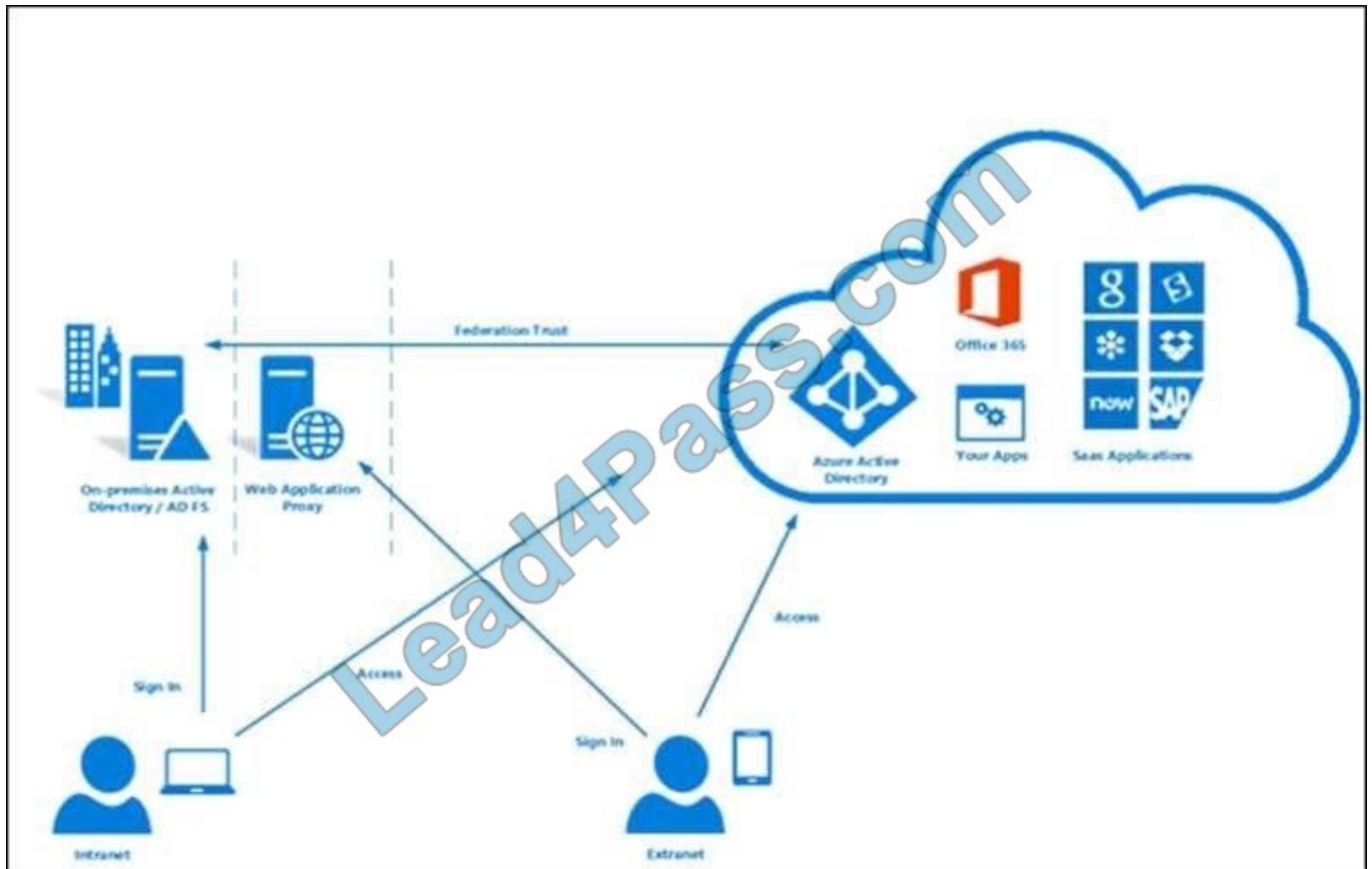


User accounts, group memberships, and credentials from Litware's on-premises directory are synchronized to Azure AD via Azure AD Connect. These user accounts, group memberships, and credentials are automatically available within the

managed domain.

Box 2: User management occurs on-premises. The on-premises domain controller authenticates employee credentials.

You can federate your on-premises environment with Azure AD and use this federation for authentication and authorization. This sign-in method ensures that all user authentication occurs on-premises.



References: <https://docs.microsoft.com/en-us/azure/active-directory-domain-services/active-directory-ds-overview>  
<https://docs.microsoft.com/en-us/azure/active-directory/hybrid/whatis-fed>

## QUESTION 10

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.

Your company has an on-premises data center and an Azure subscription. The on-premises data center contains a Hardware Security Module (HSM).

Your network contains an Active Directory domain that is synchronized to an Azure Active Directory (Azure AD) tenant.

The company is developing an application named Application1. Application1 will be hosted in Azure by using 10 virtual machines that run Windows Server 2016. Five virtual machines will be in the West Europe Azure region and five virtual

machines will be in the East US Azure region. The virtual machines will store sensitive company information. All the virtual machines will use managed disks.

You need to recommend a solution to encrypt the virtual machine disks by using BitLocker Drive Encryption (BitLocker).



Solution: Export a security key from the on-premises HSM. Deploy Azure Key Vault and import the security key to Azure Key Vault. Configure the virtual machines to use Azure Storage encryption.

Does this meet the goal?

A. Yes

B. No

Correct Answer: B

The Key Vault has to be in the same region as the VM that will be encrypted.

Reference: <https://www.ciraltos.com/azure-disk-encryption-v2/>

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## QUESTION 11

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.

Your company has an on-premises data center and an Azure subscription. The on-premises data center contains a Hardware Security Module (HSM).

Your network contains an Active Directory domain that is synchronized to an Azure Active Directory (Azure AD) tenant.

The company is developing an application named Application1. Application1 will be hosted in Azure by using 10 virtual machines that run Windows Server 2016. Five virtual machines will be in the West Europe Azure region and five virtual

machines will be in the East US Azure region. The virtual machines will store sensitive company information. All the virtual machines will use managed disks.

You need to recommend a solution to encrypt the virtual machine disks by using BitLocker Drive Encryption (BitLocker).

Solution:

1.

Deploy one Azure Key Vault to each region

2.

Export two security keys from the on-premises HSM

3.

Import the security keys from the HSM into each Azure Key Vault

4.





Configure the virtual machines to use Azure Disk Encryption

5.

Use a different Key Vault for encrypting virtual machine disks in each region Does this meet the goal?

A. Yes

B. No

Correct Answer: A

We use the Azure Premium Key Vault with Hardware Security Modules (HSM) backed keys. The Key Vault has to be in the same region as the VM that will be encrypted.

Note: If you want to use a key encryption key (KEK) for an additional layer of security for encryption keys, add a KEK to your key vault. Use the Add-AzKeyVaultKey cmdlet to create a key encryption key in the key vault. You can also import a KEK from your on-premises key management HSM.

Reference: <https://www.ciraltos.com/azure-disk-encryption-v2/>

<https://docs.microsoft.com/en-us/azure/security/azure-security-disk-encryption-prerequisites-aad>

## QUESTION 12

### HOTSPOT

You deploy several Azure SQL Database instances.

You plan to configure the Diagnostics settings on the databases as shown in the following exhibit.

### Diagnostics setting

Save Discard Delete Provide feedback

A diagnostic setting specifies a list of categories of platform logs and/or metrics that you want to collect from a resource, and one or more destinations that you would stream them to. Normal usage charges for the destination will occur. [Learn more about the different log categories and contents of those logs](#)

Diagnostic setting name	Diagnostic1
Category details	Destination details
<p><b>log</b></p> <p><input type="checkbox"/> Errors Retention (days) 0</p> <p><input type="checkbox"/> DatabaseWaitStatistics Retention (days) 0</p> <p><input type="checkbox"/> Timeouts Retention (days) 0</p> <p><input type="checkbox"/> Blocks Retention (days) 0</p> <p><input type="checkbox"/> Deadlocks Retention (days) 0</p> <p><b>metric</b></p> <p><input type="checkbox"/> Basic Retention (days) 0</p>	<p><input checked="" type="checkbox"/> Send to Log Analytics</p> <p>Showing all storage accounts including classic storage accounts</p> <p><b>Location</b> East US</p> <p><b>Subscription</b> Azure Pass - Sponsorship</p> <p><b>Storage account *</b> contoso20</p> <p><input type="checkbox"/> Stream to an event hub</p>

Diagnostic setting named is Diagnostic1. Archive to a storage account is enabled. SQLInsights log is enabled and has a retention of 90 days. AutomaticTuning log is enabled and has a retention of 30 days. All other logs are disabled. Send to Log Analytics is enabled. Archive to a storage account is enabled. Stream to event hub is disabled.



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.

Hot Area:

The amount of time that SQLInsights data will be stored in blob storage is [answer choice].

	▼
30 days	
90 days	
730 days	
indefinite	

The maximum amount of time that SQLInsights data can be stored in Azure Log Analytics is [answer choice].

	▼
30 days	
90 days	
730 days	
indefinite	

Correct Answer:

The amount of time that SQLInsights data will be stored in blob storage is [answer choice].

	▼
30 days	
90 days	
730 days	
indefinite	

The maximum amount of time that SQLInsights data can be stored in Azure Log Analytics is [answer choice].

	▼
30 days	
90 days	
730 days	
indefinite	

In the exhibit, the SQLInsights data is configured to be stored in Azure Log Analytics for 90 days. However, the question is asking for the "maximum" amount of time that the data can be stored which is 730 days.





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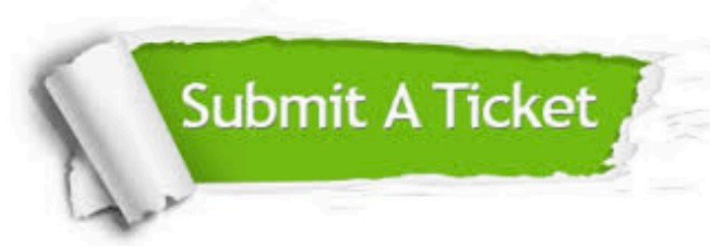
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