



Microsoft

Exam Questions AZ-301

Microsoft Azure Architect Design

NEW QUESTION 1

- (Exam Topic 1)

You need to recommend a solution to meet the database retention requirement. What should you recommend?

- A. Configure a long-term retention policy for the database.
- B. Configure Azure Site Recovery.
- C. Configure geo replication of the database.
- D. Use automatic Azure SQL Database backups.

Answer: A

NEW QUESTION 2

- (Exam Topic 1)

You are evaluating the components of the migration to Azure that require you to provision an Azure Storage account.

For each of the following statements, select Yes if the statement is true. Otherwise, select No. NOTE: Each correct selection is worth one point.

Statements	Yes	No
You must provision an Azure Storage account for the SQL Server database migration.	<input type="radio"/>	<input type="radio"/>
You must provision an Azure Storage account for the Web site content storage.	<input type="radio"/>	<input type="radio"/>
You must provision an Azure Storage account for the Database metric monitoring.	<input type="radio"/>	<input type="radio"/>

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Statements	Yes	No
You must provision an Azure Storage account for the SQL Server database migration.	<input checked="" type="radio"/>	<input type="radio"/>
You must provision an Azure Storage account for the Web site content storage.	<input type="radio"/>	<input checked="" type="radio"/>
You must provision an Azure Storage account for the Database metric monitoring.	<input checked="" type="radio"/>	<input type="radio"/>

NEW QUESTION 3

- (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 4

- (Exam Topic 2)

You use Azure virtual machines to run a custom application that uses an Azure SQL database on the back end. The IT apartment at your company recently enabled forced tunneling,

Since the configuration change, developers have noticed degraded performance when they access the database

You need to recommend a solution to minimize latency when accessing the database. The solution must minimize costs

What should you include in the recommendation? .

- A. Azure SQL Database Managed instance
- B. Azure virtual machines that run Microsoft SQL Server servers
- C. Always On availability groups
- D. virtual network service endpoint

Answer: D

NEW QUESTION 5

- (Exam Topic 2)

You store web access logs data in Azure Blob storage. You plan to generate monthly reports from the access logs.

You need to recommend an automated process to upload the data to Azure SQL Database every month. What should you include in the recommendation?

- A. Microsoft SQL Server Migration Assistant (SSMA)
- B. Azure Data Factory
- C. Data Migration Assistant
- D. AzCopy

Answer: C

NEW QUESTION 6

- (Exam Topic 2)

You are designing a software as a service (SaaS) application that will enable Azure Active Directory (Azure AD) users to create and publish surveys. The SaaS application will have a front-end web app and a back-end web API. The web app will rely on the web API to handle updates to customer surveys.

You need to design an authorization flow for the SaaS application. The solution must meet the following requirements:

To access the back-end web API, the web app must authenticate by using OAuth 2 bearer tokens.

The web app must authenticate by using the identities of individual users.

What should you include in the solution? To answer, select the appropriate options in the answer area. NOTE: Each correct selection is worth one point.

The access tokens will be generated by:

<input type="checkbox"/> Azure AD
<input type="checkbox"/> A web app
<input type="checkbox"/> A web API

Authorization decisions will be performed by:

<input type="checkbox"/> Azure AD
<input type="checkbox"/> A web app
<input type="checkbox"/> A web API

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

References:

<https://docs.microsoft.com/lb-lu/azure/architecture/multitenant-identity/web-api> <https://docs.microsoft.com/en-us/azure/active-directory/develop/quickstart-v1-dotnet-webapi>

NEW QUESTION 7

- (Exam Topic 2)

You have an Azure subscription that contains an Azure Cosmos DB account.

You need to recommend a solution to generate an alert from Azure Log Analytics when a request charge for a query exceeds 50 request units more than 20 times within a 15-minute window.

What should you recommend?

- A. Create a search query to identify when requestCharge_s exceeds 50. Configure an alert threshold of 20 and a period of 15.
- B. Create a search query to identify when duration_s exceeds 20 and requestCharge_s exceeds 50. Configure a period of 15.
- C. Create a search query to identify when requestCharge_s exceeds 20. Configure a period of 15 and a frequency of 20.
- D. Create a search query to identify when duration_s exceeds 20. Configure a period of 15.

Answer: A

NEW QUESTION 8

- (Exam Topic 2)

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
A root CA certificate that has the public key	The users' Personal store on each laptop:	A user certificate that has the private key
A user certificate that has the private key	The Azure VPN gateway:	A root CA certificate that has the public key
A user certificate that has the public key		

NEW QUESTION 9

- (Exam Topic 2)

You manage a single-domain, on-premises Active Directory for named contoso.com. The forest functional level is window Server 2016. You have several on-premises applications that depend on Active Directory. You plan to migrate the applications to Azure. You need to recommend an identity solution for the appkcatkms. The solution mufl meet the following requirements:

- Eliminate the need for hybrid network connectivity
- Minimize management overhead for Active Directory. What should you recommend?

- A. In Azure, deploy additional domain controllers for the contoso.com domain
- B. In Azure, deploy an additional child domain to the contoso.com forest.
- C. Implement Azure Active Directory Domain Services (Azure AD DS).
- D. Implement a new Acuve Directory forest in Azure.

Answer: A

NEW QUESTION 10

- (Exam Topic 2)

Note: This question is 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 named Project1. Only a group named Project1admins is assigned roles in the Project1 subscription. The Project1 subscription contains all the resources for an application named Application1.

Your company is developing a new application named Application2. The members of the Application2 development team belong to an Azure Active Directory (Azure AD) group named App2Dev.

You identify the following requirements for Application2:

- The members of App2Dev must be prevented from changing the role assignments in Azure.
- The members of App2Dev must be able to create new Azure resources required by Application2.
- All the required role assignments for Application2 will be performed by the members of Project1admins.

You need to recommend a solution for the role assignments of Application2.

Solution: Create a new Azure subscription named Project2. Assign Project1admins the Owner role for the Project2 subscription. Assign App2Dev the Contributor role for the Project2 subscription.

Does this meet the goal?

- A. Yes
- B. No

Answer: A

NEW QUESTION 10

- (Exam Topic 2)

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 a web app in an Isolated App Service plan. Does this meet the goal?

- A. Yes
- B. No

Answer: A

NEW QUESTION 13

- (Exam Topic 2)

You are designing a data protection strategy for Azure virtual machines. All the virtual machines are in the Standard tier and use managed disks.

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

- The use of encryption keys is audited.
 - All the data is encrypted at rest always.
 - You manage the encryption keys, not Microsoft.
- What should you include in the recommendation?

- A. BitLocker Drive Encryption (BitLocker)
- B. Azure Storage Service Encryption
- C. client-side encryption
- D. Azure Disk Encryption

Answer: D

Explanation:

References:

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

NEW QUESTION 18

- (Exam Topic 2)

A company named Contoso, Ltd. has an Azure Active Directory (Azure AD) tenant that uses the BAsic license.

You plan t deploy two applications to Azure. The application has the requirements shown in the following table.

Application name	Requirement
Customer	Users must authenticate by using a personal Microsoft account and multi-factor authentication.
Reporting	Users must authenticate by using either Contoso credentials or a personal Microsoft account. You must be able to manage the accounts from Azure AD.

Which authentication Strategy should you recommend for each application? To answer, drag the appropriate authentication strategies to the correct applications. Each authentication strategy 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.

Authentication Strategies

An Azure AD B2C tenant

An Azure AD v1.0 endpoint

An Azure AD v2.0 endpoint

Answer Area

Customer:

Reporting:

1/2

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:



NEW QUESTION 21

- (Exam Topic 2)

Note: This question is 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.

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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:

The researchers must be allowed to create Azure virtual machines.

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

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

Does this meet the goal?

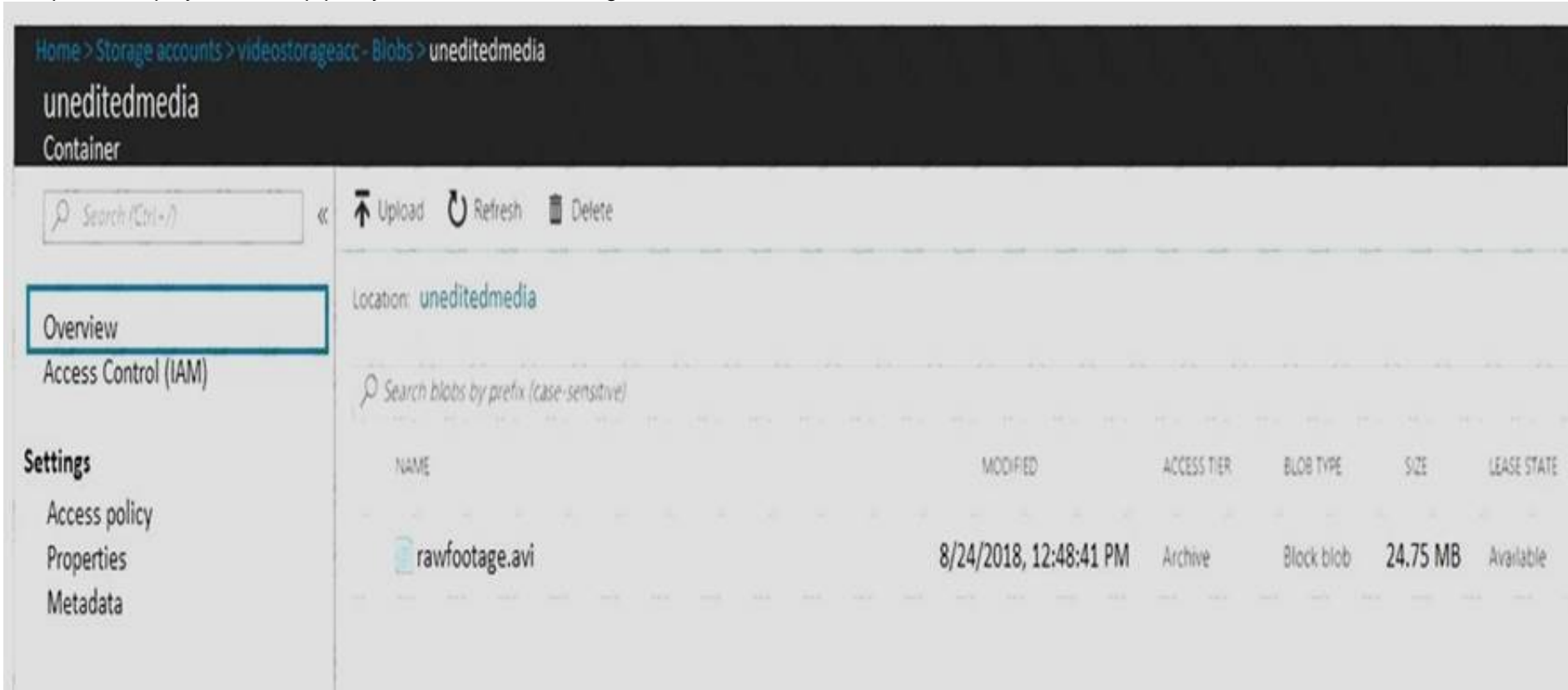
- A. Yes
- B. No

Answer: A

NEW QUESTION 23

- (Exam Topic 2)

You plan to deploy the backup policy 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.

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

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

References:

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

NEW QUESTION 25

- (Exam Topic 2)

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

NEW QUESTION 27

- (Exam Topic 2)

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 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 it an Azure legion fails.
 - Grant administrators access to the operating system to install custom application dependencies.
- Solution: You deploy a web app in an Isolated App Service plan.

Does this meet the goal?

- A. Yes
- B. No

Answer: A

NEW QUESTION 29

- (Exam Topic 2)

Note: This question is 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.

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Your company is developing a new application named Application2. The members of the Application2 development team belong to an Azure Active Directory (Azure AD) group named App2Dev.

You identify the following requirements for Application2:

The members of App2Dev must be prevented from changing the role assignments in Azure.

The members of App2Dev must be able to create new Azure resources required by Application2.

All the required role assignments for Application2 will be performed by the members of Project1admins.

You need to recommend a solution for the role assignments of Application2.

Solution: Create a new Azure subscription named Project2. Assign Project1admins the User Access Administrator role for the Project2 subscription. Assign App2Dev the Owner role for the Project2 subscription.

Does this meet the goal?

- A. Yes
- B. No

Answer: B

NEW QUESTION 34

- (Exam Topic 2)

Your company identifies the following business continuity and disaster recovery objectives for virtual machines that host sales, finance, and reporting application in the company's on-premises data center.

- The finance application requires that data be retained for seven years. In the event ot a disaster, the application must be able to run from Azure. The recovery in objective (RTO) is 10 minutes,
- The reporting application must be able to recover point in-time data al a daily granularity. The RTO is eight hours.
- The sales application must be able to fail over to second on-premises data center.

You need to recommend which Azure services meet the business community and disaster recovery objectives. The solution must minimize costs.

What should you recommend for each application? To answer, drag the appropriate services to the correct application. Each service may be used owe. More than once not at an You may need to drag the spin bar between panes or scroll 10 view content.

Actions	Answer Area	
Azure Backup only	<div>⏪</div> <div>⏩</div>	Sales: Service or Services
Azure Site Recovery only		Finance: Service or Services
Azure Site Recovery and Azure Backup		Reporting: Service or Services

- A. Mastered
 B. Not Mastered

Answer: A

Explanation:

Actions	Answer Area	
Azure Backup only	<div>⏪</div> <div>⏩</div>	Sales: Azure Site Recovery and Azure Backup
Azure Site Recovery only		Finance: Azure Backup only
Azure Site Recovery and Azure Backup		Reporting: Azure Site Recovery only

NEW QUESTION 37

- (Exam Topic 2)

You have 20 Azure virtual machines that run windows Server 2016 based on a custom virtual machine image. Each virtual machine an instance of a VSS-capable app that was developed in-house. Each instance is accessed by public endpoint . Each instance separate database. The average database size is 200 GB. You need to design a disaster recovery solution for individual instances.

- Provide a recovery objective time object (RTO] of six hours.
- Provide a recovery point objective (RPO) at eight hours.
- Support recovery to a different Azure region.
- Support VSS- based backups.
- Minimize VSS-based backups.

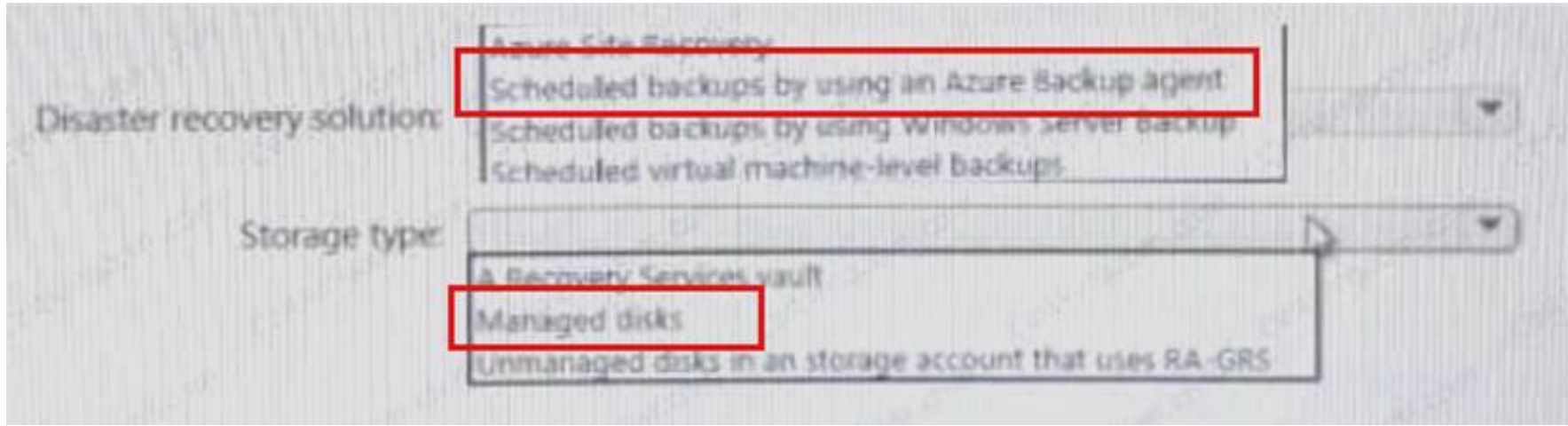
What should you include in the recommendation? To answer, select the appropriate options in the answer area. NOTE: Each correct selection is worth one point

Disaster recovery solution:	<div>Azure Site Recovery</div> <div>Scheduled backups by using an Azure Backup agent</div> <div>Scheduled backups by using Windows Server Backup</div> <div>Scheduled virtual machine-level backups</div>
Storage type:	<div>A Recovery Services vault</div> <div>Managed disks</div> <div>Unmanaged disks in an storage account that uses RA-GRS</div>

- A. Mastered
 B. Not Mastered

Answer: A

Explanation:



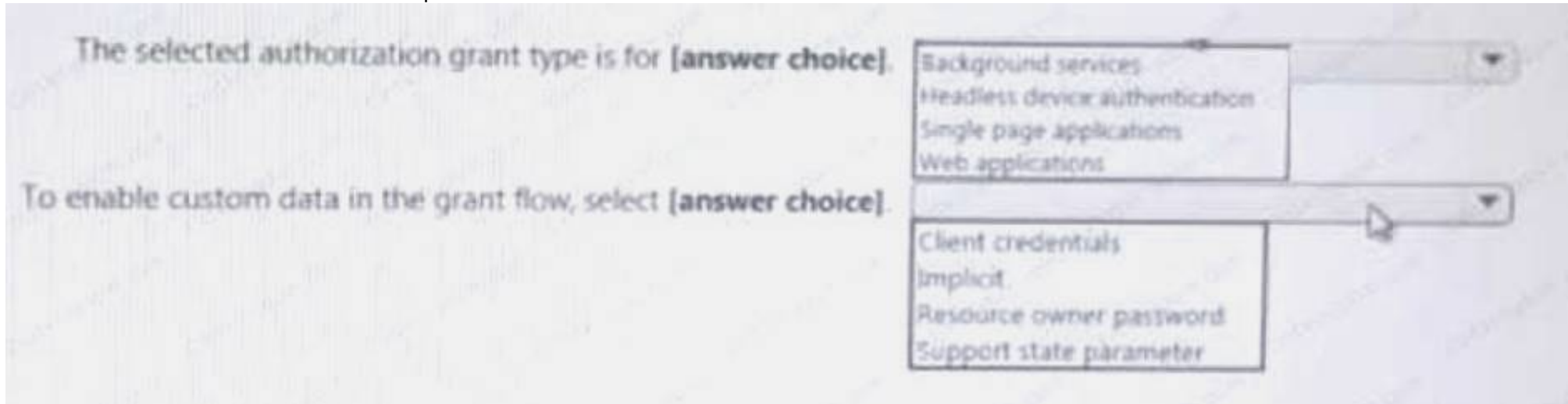
NEW QUESTION 38

- (Exam Topic 2)

You configure OAuth 2 authorization in API Management as shown in the exhibit.



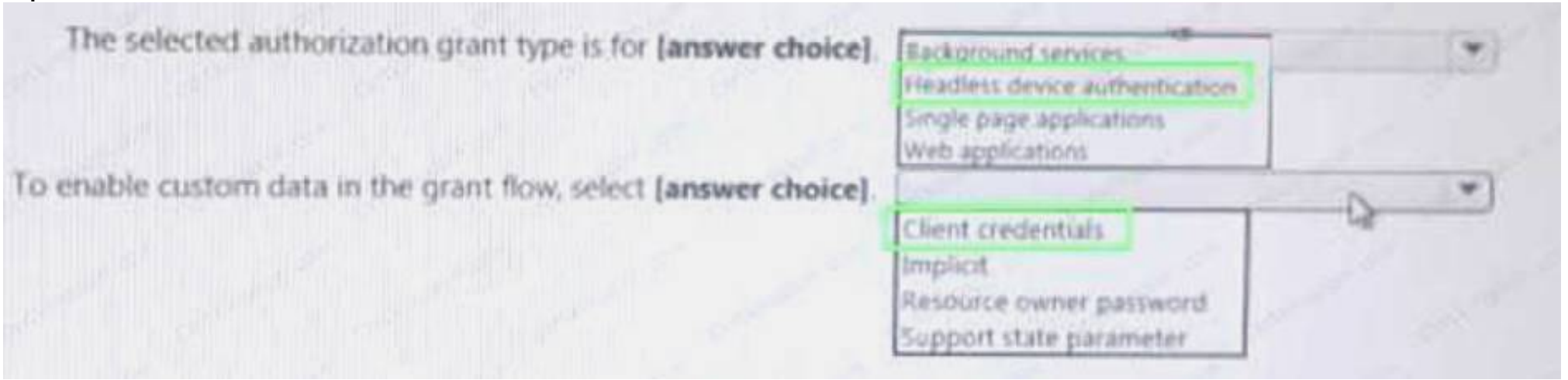
Use the drop-domain to select the answer choice that completes each statement based on the information presented in the graphic.
 NOTE: Each correct selection is worth one point.



- A. Mastered
- B. Not Mastered

Answer: A

Explanation:



NEW QUESTION 40

- (Exam Topic 2)

You have an Azure Active Directory (Azure AD) tenant. All user accounts are synchronized from an onpremises Directory and are configured for federated authentication. Active Directory Federation Services (AD FS) servers are published for external connection by using a farm Application proxy servers. You need to recommend a solution to monitor the servers that integrate with Azure AD. The solution must meet the following requirements:

Identify any AD FS issue and their potential resolutions.

Identify any directory synchronization configuration issues and their potential resolutions.

Notify administrations when there are any issue affecting directory synchronization or AD FS operations. Which monitoring solution should you recommend for each server type? To answer, drag the appropriate monitoring solution to the correct types. Each monitoring solution may be used once, than once, or not at all.

You may need to drag the split bar between panes scroll to view content.

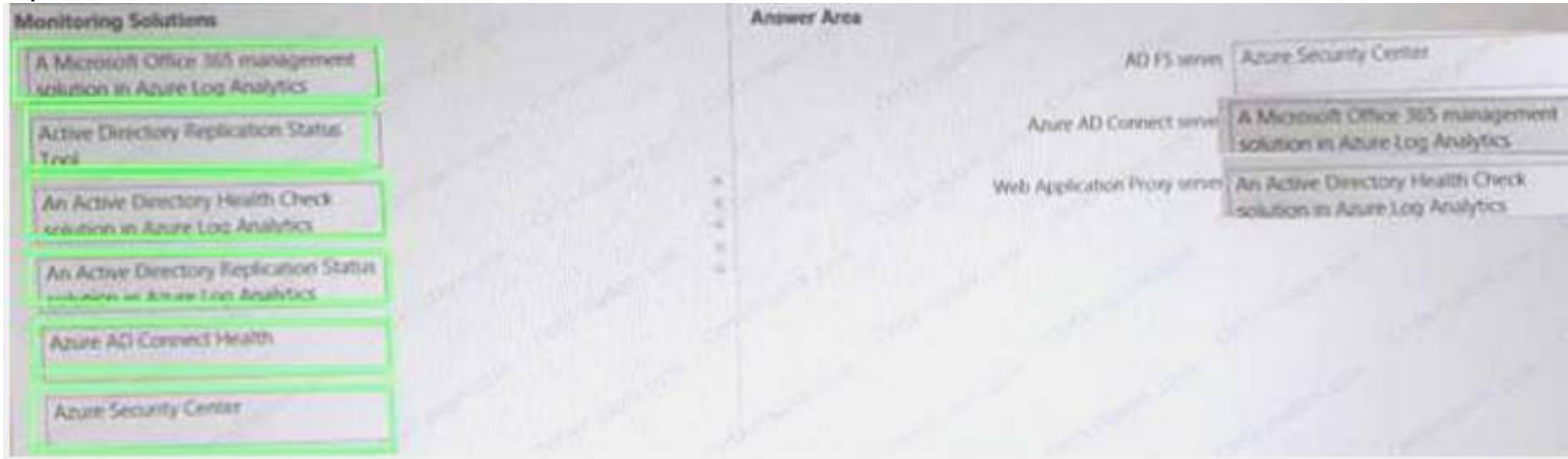
NOTE: Each correct selection is worth one point.



- A. Mastered
- B. Not Mastered

Answer: A

Explanation:



NEW QUESTION 44

- (Exam Topic 2)

You have 100 Microsoft SQL Server Integration Services (SSIS) packages that are configured to use 10 on-premises SQL Server databases as their destinations.

You plan to migrate the 10 on-premises databases to Azure SQL Database. You need to recommend a solution to host the SSIS packages in Azure. The solution must ensure that the packages can target the SQL Database instances as the* destinations. What should you include in the recommendation?

- A. Azure Data Catalog
- B. SQL Server Migration Assistant (SSMS)
- C. Data Migration Assistant
- D. Azure Data Factory

Answer: A

NEW QUESTION 49

- (Exam Topic 2)

Your company has three branch offices and an Azure subscription. Each branch office contains a Hyper-V host that hosts application servers. You need to recommend a storage solution for the branch offices. The solution must ensure that the application servers can connect to a central storage device by using iSCSI connections. Data saved to the iSCSI storage device from the application servers must be uploaded to Azure automatically. Which components should you include in the recommendation? To answer, select the appropriate options in the answer area.
NOTE: Each correct selection is worth one point.

Branch office Hyper-V hosts:

<input type="checkbox"/>	Azure File Sync agent
<input type="checkbox"/>	Azure Site Recovery agent
<input type="checkbox"/>	Azure StorSimple Virtual Array
<input type="checkbox"/>	Distributed File System Replication

Azure subscription:

<input type="checkbox"/>	Azure file share
<input type="checkbox"/>	Azure File Sync
<input type="checkbox"/>	Azure Site Recovery vault
<input type="checkbox"/>	Azure Storage account

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

References:

<https://docs.microsoft.com/en-us/azure/storsimple/storsimple-ova-overview>

NEW QUESTION 54

- (Exam Topic 2)

You are designing a container solution in Azure that will include two containers. One container will host a web API that will be available to the public. The other container will perform health monitoring of the web API and will remain private. The two containers will be deployed together as a group. You need to recommend a compute service for the containers. The solution must minimize costs and maintenance overhead. What should you include in the recommendation?

- A. Azure container instances
- B. Azure container Service
- C. Azure Kubernetes service (AKS)
- D. Azure service fabric

Answer: A

Explanation:

References:

<https://docs.microsoft.com/en-us/azure/container-instances/container-instances-container-groups>

NEW QUESTION 58

- (Exam Topic 2)

Your company has an API that returns XML data to internal applications. You plan to migrate the applications to Azure. You also plan to allow the company's partners to access the API. You need to recommend an API management solution that meets the following requirements:
Internal applications must receive data in the JSON format once the applications migrate to Azure.
Partner applications must have their header information stripped before the applications receive the data. What should you include in the recommendation? To answer, select the appropriate options in the answer area. NOTE: Each correct selection is worth one point.

Minimum number of APIs to add to Azure API Management:

	▼
1	
2	
3	

Minimum number of products to publish in Azure API Management:

	▼
1	
2	
3	

Minimum number of policy elements to add:

	▼
1	
2	
3	

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

References:

<https://docs.microsoft.com/en-us/exchange/plan-and-deploy/deploy-new-installations/delegate-installations?view>

NEW QUESTION 61

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