



AZ-301^{Q&As}

Microsoft Azure Architect Design

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**QUESTION 1**

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 has four departments. Each department will deploy several Azure app services and Azure SQL databases.

You need to recommend a solution to report the costs for each department to deploy the app services and the databases. The solution must provide a consolidated view for cost reporting.

Solution: Create a resources group for each resource type. Assign tags to each resource group.

Does this meet the goal?

A. Yes

B. No

Correct Answer: A

Tags enable you to retrieve related resources from different resource groups. This approach is helpful when you need to organize resources for billing or management.

Reference: <https://docs.microsoft.com/en-us/azure/azure-resource-manager/resource-group-using-tags>

QUESTION 2**HOTSPOT**

You configure OAuth2 authorization in API Management as shown in the exhibit.



Add OAuth2 service

API Management service



* Display name

Unique name used to reference this authorization server of the p... ✓

* Id ⓘ

✓

Description

Authorization server description

* Client registration page URL

<https://contoso.com/register> ✓

Authorization grant types

Authorization code

Implicit

Resource owner password

Client credentials

* Authorization endpoint URL

<https://login.microsoftonline.com/contoso.onmicrosoft.com/o...> ✓

Support state parameter

Create

Authorization Request method

GET

POST

* Token endpoint URL

Token endpoint is used by clients to obtain access tokens in excha...

Additional body parameters using application/x-www-form-urlencoded format



Use the drop-down 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:

Answer Area

The selected authorization grant type is for

	▼
Background services	
Headless device authentication	
Single page applications	
Web applications	

To enable custom data in the grant flow, select

	▼
Client credentials	
Implicit	
Resource owner password	
Support state parameter	

Correct Answer:

Answer Area

The selected authorization grant type is for

	▼
Background services	
Headless device authentication	
Single page applications	
Web applications	

To enable custom data in the grant flow, select

	▼
Client credentials	
Implicit	
Resource owner password	
Support state parameter	



Box 1: Web applications

The Authorization Code Grant Type is used by both web apps and native apps to get an access token after a user authorizes an app.

Note: The Authorization Code grant type is used by confidential and public clients to exchange an authorization code for an access token.

After the user returns to the client via the redirect URL, the application will get the authorization code from the URL and use it to request an access token.

Answers:

Not Headless device authentication:

A headless system is a computer that operates without a monitor, graphical user interface (GUI) or peripheral devices, such as keyboard and mouse.

Headless computers are usually embedded systems in various devices or servers in multi-server data center environments. Industrial machines, automobiles, medical equipment, cameras, household appliances, airplanes, vending machines

and toys are among the myriad possible hosts of embedded systems.

Box 2: Client Credentials

How to include additional client data

In case you need to store additional details about a client that don't fit into the standard parameter set the custom data parameter comes to help:

POST /c2id/clients HTTP/1.1

Host: demo.c2id.com

Content-Type: application/json

Authorization: Bearer ztucZS1ZyFKgh0tUEruUtiSTXhnexmd6

```
{ "redirect_uris" : [ "https://myapp.example.com/callback" ], "data" : { "reg_type" : "3rd-party", "approved" : true, "author_id" : 792440 } }
```

The data parameter permits arbitrary content packaged in a JSON object. To set it you will need the master registration token or a one-time access token with a client-reg:data scope.

Incorrect Answers:

Authorization protocols provide a state parameter that allows you to restore the previous state of your application. The state parameter preserves some state object set by the client in the Authorization request and makes it available to the client in the response.

Reference:

<https://developer.okta.com/blog/2018/04/10/oauth-authorization-code-grant-type>



<https://connect2id.com/products/server/docs/guides/client-registration>

QUESTION 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 Azure Storage v2 account named Storage1.

You plan to archive data to Storage1.

You need to ensure that the archived data cannot be deleted for five years. The solution must prevent administrators from deleting the data.

Solution: You create a file share, and you configure an access policy.

Does this meet the goal?

A. Yes

B. No

Correct Answer: B

Instead of a file share, an immutable Blob storage is required.

Time-based retention policy support: Users can set policies to store data for a specified interval. When a time-based retention policy is set, blobs can be created and read, but not modified or deleted. After the retention period has expired,

blobs can be deleted but not overwritten.

Note: Set retention policies and legal holds

1.

Create a new container or select an existing container to store the blobs that need to be kept in the immutable state. The container must be in a general-purpose v2 or Blob storage account.

2.

Select Access policy in the container settings. Then select Add policy under Immutable blob storage.

3.

To enable time-based retention, select Time-based retention from the drop-down menu.

4.



Enter the retention interval in days (acceptable values are 1 to 146000 days).

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

<https://docs.microsoft.com/en-us/azure/storage/blobs/storage-blob-immutability-policies-manage>

QUESTION 4

You have a .NET web service named Service1 that has the following requirements:

1.
Must read and write temporary files to the local file system.
2.
Must write to the Windows Application event log.

You need to recommend a solution to host Service1 in Azure. The solution must meet the following requirements:

1.
Minimize maintenance overhead.
2.
Minimize costs.

What should you include in the recommendation?

- A. an Azure virtual machine scale set
- B. an Azure function
- C. an App Service Environment
- D. an Azure web app

Correct Answer: A

QUESTION 5

HOTSPOT

You have an Azure subscription that contains 300 Azure virtual machines that run Windows Server 2016.

You need to centrally monitor all warning events in the System logs of the virtual machines.

What should you include in the solutions? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Hot Area:



synchronized identity

- An event hub
- A Log Analytics workspace
- A search service
- A storage account

Configuration to perform on the virtual machines

- Create event subscriptions
- Configure Continuous delivery
- Install the Microsoft Monitoring Agent
- Modify the membership of the Event Log Readers Groups

Correct Answer:

synchronized identity

- An event hub
- A Log Analytics workspace
- A search service
- A storage account

Configuration to perform on the virtual machines

- Create event subscriptions
- Configure Continuous delivery
- Install the Microsoft Monitoring Agent
- Modify the membership of the Event Log Readers Groups

Reference: <https://docs.microsoft.com/en-us/azure/azure-monitor/platform/data-sources-windows-events>

<https://docs.microsoft.com/en-us/azure/azure-monitor/platform/agent-windows>



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