



# Microsoft

## Exam Questions AZ-204

Developing Solutions for Microsoft Azure

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### NEW QUESTION 1

- (Topic 8)

The solution must receive and store messages until they can be processed. You create an Azure Service Bus instance by providing a name, pricing tier, subscription, resource group, and location.

You need to complete the configuration.

Which Azure CLI or PowerShell command should you run?

A)

```
New-AzureRmResourceGroup
  -Name fridge-rg
  -Location fridge-loc
```

B)

```
connectionStrings=$(az servicebus namespace authorization-rule keys list
  --resource-group fridge-rg
  --fridge-ns fridge-ns
  --name RootManageSharedAccessKey
  --query primaryConnectionString --output tsv)
```

C)

```
New-AzureRmServiceBusQueue
  -ResourceGroupName fridge-rg
  -NamespaceName fridge-ns
  -Name fridge-q
  -EnablePartitioning $False
```

D)

```
New-AzureRmServiceBusNamespace
  -ResourceGroupName fridge-rg
  -NamespaceName fridge-ns
  -Location fridge-loc
```

- A. Option A
- B. Option B
- C. Option C
- D. Option D

**Answer: C**

### NEW QUESTION 2

- (Topic 8)

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 develop an HTTP triggered Azure Function app to process Azure Storage blob data. The app is triggered using an output binding on the blob.

The app continues to time out after four minutes. The app must process the blob data. You need to ensure the app does not time out and processes the blob data.

Solution: Update the functionTimeout property of the host.json project file to 10 minutes. Does the solution meet the goal?

- A. Yes
- B. No

**Answer: B**

#### Explanation:

Instead pass the HTTP trigger payload into an Azure Service Bus queue to be processed by a queue trigger function and return an immediate HTTP success response.

Note: Large, long-running functions can cause unexpected timeout issues. General best practices include:

Whenever possible, refactor large functions into smaller function sets that work together and return responses fast. For example, a webhook or HTTP trigger function might require an acknowledgment response within a certain time limit; it's common for webhooks to require an immediate response. You can pass the HTTP trigger payload into a queue to be processed by a queue trigger function. This approach lets you defer the actual work and return an immediate response.

Reference:

<https://docs.microsoft.com/en-us/azure/azure-functions/functions-best-practices>

### NEW QUESTION 3

HOTSPOT - (Topic 8)

You are developing a web application that will use Azure Storage. Older data will be less frequently used than more recent data.

You need to configure data storage for the application. You have the following requirements:

? Retain copies of data for five years.

? Minimize costs associated with storing data that is over one year old.

? Implement Zone Redundant Storage for application data.

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

Requirement	Solution
Configure an Azure Storage account	<div><div></div><div>Implement Blob Storage</div><div>Implement Azure Cosmos DB</div><div>Implement Storage (general purpose v1)</div><div>Implement StorageV2 (general purpose v2)</div></div>
Configure data retention	<div><div></div><div>Snapshot blobs and move them to the archive tier</div><div>Set a lifecycle management policy to move blobs to the cool tier</div><div>Use AzCopy to copy the data to an on-premises device for backup</div><div>Set a lifecycle management policy to move blobs to the archive tier</div></div>

- A. Mastered  
B. Not Mastered

**Answer:** A

**Explanation:**

Requirement	Solution
Configure an Azure Storage account	<div><div></div><div>Implement Blob Storage</div><div>Implement Azure Cosmos DB</div><div>Implement Storage (general purpose v1)</div><div>Implement StorageV2 (general purpose v2)</div></div>
Configure data retention	<div><div></div><div>Snapshot blobs and move them to the archive tier</div><div>Set a lifecycle management policy to move blobs to the cool tier</div><div>Use AzCopy to copy the data to an on-premises device for backup</div><div>Set a lifecycle management policy to move blobs to the archive tier</div></div>

#### NEW QUESTION 4

HOTSPOT - (Topic 8)

You are developing a .NET Core MVC application for customers to research hotels. The application will use Azure Search. The application will search the index by using various criteria to locate documents related to hotels. The index will include search fields for rate, a list of amenities, and distance to the nearest airport.

The application must support the following scenarios for specifying search criteria and organizing results:

- Search the index by using regular expressions.
- Organize results by counts for name-value pairs.
- List hotels within a specified distance to an airport and that fall within a specific price range.

You need to configure the SearchParameters class.

Which properties should you configure? To answer, select the appropriate options in the answer area.

NOTE Each correct selection is worth one point.

Scenario	Property
Search the index by using regular expressions.	<div><div></div><div>QueryType</div><div>OrderBy</div><div>SearchMode</div></div>
Organize results by counts for name-value pairs.	<div><div></div><div>Facets</div><div>Filter</div><div>SearchMode</div></div>
List hotels within a specified distance to an airport and that fall within a specific price range.	<div><div></div><div>Order by</div><div>Top</div><div>Filter</div></div>

- A. Mastered  
B. Not Mastered

**Answer:** A

**Explanation:**

Box 1: QueryType

The SearchParameters.QueryType Property gets or sets a value that specifies the syntax of the search query. The default is 'simple'. Use 'full' if your query uses the Lucene query syntax.

You can write queries against Azure Search based on the rich Lucene Query Parser syntax for specialized query forms: wildcard, fuzzy search, proximity search,

regular expressions are a few examples.

Box 2: Facets

The facets property gets or sets the list of facet expressions to apply to the search query. Each facet expression contains a field name, optionally followed by a comma-separated list of name:value pairs.

Box 3: Filter

The Filter property gets or sets the OData \$filter expression to apply to the search query.

References: [https://docs.microsoft.com/en-](https://docs.microsoft.com/en-us/dotnet/api/microsoft.azure.search.models.searchparameters)

[us/dotnet/api/microsoft.azure.search.models.searchparameters](https://docs.microsoft.com/en-us/dotnet/api/microsoft.azure.search.models.searchparameters) <https://docs.microsoft.com/en-us/azure/search/query-lucene-syntax>

[https://docs.microsoft.com/en- us/dotnet/api/microsoft.azure.search.models.searchparameters.querytype](https://docs.microsoft.com/en-us/dotnet/api/microsoft.azure.search.models.searchparameters.querytype)

**NEW QUESTION 5**

DRAG DROP - (Topic 8)

Contoso, Ltd. provides an API to customers by using Azure API Management (APIM). The API authorizes users with a JWT token.

You must implement response caching for the APIM gateway. The caching mechanism must detect the user ID of the client that accesses data for a given location and cache the response for that user ID.

You need to add the following policies to the policies file:

- a set-variable policy to store the detected user identity
  - a cache-lookup-value policy
  - a cache-store-value policy
  - a find-and-replace policy to update the response body with the user profile information
- To which policy section should you add the policies? To answer, drag the appropriate

sections to the correct policies. Each section 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

Policy section

Inbound

Outbound

Answer Area

Policy

Set-variable

Cache-lookup-value

Cache-store-value

Find-and-replace

Policy section

policy section

policy section

policy section

policy section

- A. Mastered  
B. Not Mastered

**Answer:** A

**Explanation:**

Box 1: Inbound.

A set-variable policy to store the detected user identity. Example:

```
<policies>
<inbound>
<!-- How you determine user identity is application dependent -->
<set-variable name="enduserid"
value="@ (context.Request.Headers.GetValueOrDefault("Authorization","").Split(' ')[1].AsJwt()?.Subject)" />
Box 2: Inbound
```

A cache-lookup-value policy Example:

```
<inbound>
<base />
<cache-lookup vary-by-developer="true | false" vary-by-developer-groups="true | false" downstream-caching-type="none | private | public" must-revalidate="true | false">
<vary-by-query-parameter>parameter name</vary-by-query-parameter> <!-- optional, can repeated several times -->
</cache-lookup>
</inbound>
```

Box 3: Outbound

A cache-store-value policy. Example:

```
<outbound>
<base />
<cache-store duration="3600" />
</outbound>
```

Box 4: Outbound

A find-and-replace policy to update the response body with the user profile information. Example:

```
<outbound>
<!-- Update response body with user profile-->
<find-and-replace from="$userprofile$"
to="@ ((string)context.Variables["userprofile"])" />
<base />
</outbound>
```

**NEW QUESTION 6**

DRAG DROP - (Topic 8)

You are developing an Azure Function app. The app must meet the following requirements:

- ? Enable developers to write the functions by using the Rust language.
- ? Declaratively connect to an Azure Blob Storage account.

You need to implement the app.

Which Azure Function app features should you use? To answer, drag the appropriate features to the correct requirements. Each feature 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.



Features	Answer Area	
	Requirement	Feature
<input type="text" value="Custom handler"/>	Enable developers to write the functions by using the Rust language.	<input type="text" value="Feature"/>
<input type="text" value="Extension bundle"/>		
<input type="text" value="Trigger"/>	Declaratively connect to an Azure Blob Storage account.	<input type="text" value="Feature"/>
<input type="text" value="Runtime"/>		
<input type="text" value="Policy"/>		
<input type="text" value="Hosting plan"/>		

- A. Mastered  
B. Not Mastered

**Answer:** A

**Explanation:**

Box 1: Custom handler

Custom handlers can be used to create functions in any language or runtime by running an HTTP server process, for example Go or Rust.

Box 2: Trigger

Functions are invoked by a trigger and can have exactly one. In addition to invoking the function, certain triggers also serve as bindings. You may also define multiple bindings in addition to the trigger. Bindings provide a declarative way to connect data to your code.

**NEW QUESTION 7**

- (Topic 8)

You are building a web application that performs image analysis on user photos and returns metadata containing objects identified. The image is very costly in terms of time and compute resources. You are planning to use Azure Redis Cache so duplicate uploads do not need to be reprocessed.

In case of an Azure data center outage, metadata loss must be kept to a minimum. You need to configure the Azure Redis cache instance.

Which two actions should you perform?

- A. Configure Azure Redis with rob persistence  
B. Configure second storage account far persistence.  
C. Set backup frequency to the minimum value.  
D. Configure Azure Redis with AOF persistence

**Answer:** BC

**NEW QUESTION 8**

- (Topic 8)

You are developing an ASP.NET Core website that uses Azure FrontDoor. The website is used to build custom weather data sets for researchers. Data sets are downloaded by users as Comma Separated Value (CSV) files. The data is refreshed every 10 hours.

Specific files must be purged from the FrontDoor cache based upon Response Header values.

You need to purge individual assets from the Front Door cache. Which type of cache purge should you use?

- A. single path  
B. wildcard  
C. root domain

**Answer:** A

**Explanation:**

These formats are supported in the lists of paths to purge:

? Single path purge: Purge individual assets by specifying the full path of the asset (without the protocol and domain), with the file extension, for example, /pictures/strasbourg.png;

? Wildcard purge: Asterisk (\*) may be used as a wildcard. Purge all folders, subfolders, and files under an endpoint with /\* in the path or purge all subfolders and files under a specific folder by specifying the folder followed by /\*, for example, /pictures/\*.

? Root domain purge: Purge the root of the endpoint with "/" in the path.

Reference:

<https://docs.microsoft.com/en-us/azure/frontdoor/front-door-caching>

**NEW QUESTION 9**

- (Topic 8)

A company is implementing a publish-subscribe (Pub/Sub) messaging component by using Azure Service Bus. You are developing the first subscription application.

In the Azure portal you see that messages are being sent to the subscription for each topic. You create and initialize a subscription client object by supplying the correct details, but the subscription application is still not consuming the messages.

You need to ensure that the subscription client processes all messages. Which code segment should you use?

- A. await subscriptionClient.AddRuleAsync(new RuleDescription (RuleDescription.DefaultRuleName, new TrueFilter()));  
B. subscriptionClient = new SubscriptionClient(ServiceBusConnectionString, TopicName, SubscriptionName); D18912E1457D5D1DDCBD40AB3BF70D5D  
C. await subscriptionClient.CloseAsync();  
D. subscriptionClient.RegisterMessageHandler(ProcessMessagesAsync, messageHandlerOptions);

**Answer:** D

**Explanation:**

Using topic client, call RegisterMessageHandler which is used to receive messages continuously from the entity. It registers a message handler and begins a new thread to receive messages. This handler is waited on every time a new message is received by the receiver.

```
subscriptionClient.RegisterMessageHandler(ReceiveMessagesAsync, messageHandlerOptions);
```

Reference:

<https://www.c-sharpcorner.com/article/azure-service-bus-topic-and-subscription-pub-sub/>

**NEW QUESTION 10**

- (Topic 8)

You develop Azure solutions.

You must connect to a No-SQL globally-distributed database by using the .NET API. You need to create an object to configure and execute requests in the database. Which code segment should you use?

- A. new Container(EndpointUri, PrimaryKey);
- B. new Database(Endpoint, PrimaryKey);
- C. new CosmosClient(EndpointUri, PrimaryKey);

**Answer:** C

**Explanation:**

Example:

```
// Create a new instance of the Cosmos Client
```

```
this.cosmosClient = new CosmosClient(EndpointUri, PrimaryKey)
```

```
//ADD THIS PART TO YOUR CODE
```

```
await this.CreateDatabaseAsync();
```

Reference:

<https://docs.microsoft.com/en-us/azure/cosmos-db/sql-api-get-started>

**NEW QUESTION 10**

- (Topic 8)

You are designing a small app that will receive web requests containing encoded geographic coordinates. Calls to the app will occur infrequently.

Which compute solution should you recommend?

- A. Azure Functions
- B. Azure App Service
- C. Azure Batch
- D. Azure API Management

**Answer:** B

**NEW QUESTION 14**

- (Topic 8)

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 are developing an Azure solution to collect point-of-sale (POS) device data from 2,000 stores located throughout the world. A single device can produce 2 megabytes (MB) of data every 24 hours. Each store location has one to five devices that send data.

You must store the device data in Azure Blob storage. Device data must be correlated based on a device identifier. Additional stores are expected to open in the future.

You need to implement a solution to receive the device data.

Solution: Provision an Azure Event Hub. Configure the machine identifier as the partition key and enable capture.

- A. Yes
- B. No

**Answer:** A

**Explanation:**

References:

<https://docs.microsoft.com/en-us/azure/event-hubs/event-hubs-programming-guide>

**NEW QUESTION 16**

HOTSPOT - (Topic 8)

You develop and deploy the following staticwebapp.config.json file to the app\_location value specified in the workflow file of an Azure Static Web app.

```
{
  "routes": [
    {
      "route": "/api/*",
      "methods": ["GET"],
      "allowedRoles": ["registeredusers"]
    },
    {
      "route": "/api/*",
      "methods": ["POST", "PUT", "PATCH", "DELETE"]
    }
  ]
}
```

Statements	Yes	No
Unauthenticated users are challenged to authenticate with GitHub.	<input type="radio"/>	<input type="radio"/>
A non-existent file in the /Images/ folder will generate a 404 response code.	<input type="radio"/>	<input type="radio"/>
HTTP GET method requests from authenticated users in the role named <b>registeredusers</b> are sent to the API folder.	<input type="radio"/>	<input type="radio"/>
Authenticated users that are not in the role named <b>registeredusers</b> and unauthenticated users are served a 401 HTTP error when accessing the API folder.	<input type="radio"/>	<input type="radio"/>

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Statements	Yes	No
Unauthenticated users are challenged to authenticate with GitHub.	<input checked="" type="radio"/>	<input type="radio"/>
A non-existent file in the /Images/ folder will generate a 404 response code.	<input checked="" type="radio"/>	<input type="radio"/>
HTTP GET method requests from authenticated users in the role named <b>registeredusers</b> are sent to the API folder.	<input checked="" type="radio"/>	<input type="radio"/>
Authenticated users that are not in the role named <b>registeredusers</b> and unauthenticated users are served a 401 HTTP error when accessing the API folder.	<input checked="" type="radio"/>	<input type="radio"/>

NEW QUESTION 17

DRAG DROP - (Topic 8)

You develop and deploy a Java application to Azure. The application has been instrumented by using the Application Insights SDK.

The telemetry data must be enriched and processed before it is sent to the Application Insights service.

You need to modify the telemetry data.

Which Application Insights SDK features should you use? To answer, drag the appropriate features to the correct requirements. Each feature 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.

Features

Sampling

Telemetry initializer

Telemetry processor

Telemetry channel

Answer Area

Requirement

Reduce the volume of telemetry without affecting statistics.

Enrich telemetry with additional properties or override an existing one.

Completely replace or discard a telemetry item.

Feature

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Features

Sampling

Telemetry initializer

Telemetry processor

Telemetry channel

Answer Area

Requirement

Reduce the volume of telemetry without affecting statistics.

Enrich telemetry with additional properties or override an existing one.

Completely replace or discard a telemetry item.

Feature

Sampling

Telemetry initializer

Telemetry processor



### NEW QUESTION 20

HOTSPOT - (Topic 8)

You are developing a .NET application that communicates with Azure Storage. A message must be stored when the application initializes.

You need to implement the message.

How should you complete the code segment? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Answer Area

```
CloudStorageAccount storageAccount = CloudStorageAccount.Parse(CloudConfigurationManager.GetSetting("StorageConnectionString"));

CloudQueueClient pVar1 = storageAccount.CreateCloudQueueClient();
CloudTableClient pVar2 = pVar1.CreateCloudTableClient();
CloudQueue GetQueueReference;
CloudTable GetTableReference;

CloudQueueClient tExistsAsync();
CloudTableClient CreateCloudQueueClient("contoso-storage");
CloudQueue CreateCloudTableClient;
CloudTable GetQueueReference;
CloudTable GetTableReference;
```

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Answer Area

```
CloudStorageAccount storageAccount = CloudStorageAccount.Parse(CloudConfigurationManager.GetSetting("StorageConnectionString"));

CloudQueueClient pVar1 = storageAccount.CreateCloudQueueClient();
CloudTableClient pVar2 = pVar1.CreateCloudTableClient();
CloudQueue GetQueueReference;
CloudTable GetTableReference;

CloudQueueClient tExistsAsync();
CloudTableClient CreateCloudQueueClient("contoso-storage");
CloudQueue CreateCloudTableClient;
CloudTable GetQueueReference;
CloudTable GetTableReference;
```

### NEW QUESTION 21

- (Topic 8)

Your company is designing an application named App1 that will use data from Azure SQL Database. App1 will be accessed over the internet by many users.

You need to recommend a solution for improving the performance of App1. What should you include in the recommendation?

- A. Azure HPC cache
- B. ExpressRoute
- C. a CON profile
- D. Azure Cache for Redis

Answer: D

### NEW QUESTION 22

- (Topic 8)

You develop Azure Durable Functions to manage vehicle loans.

The loan process includes multiple actions that must be run in a specified order. One of the actions includes a customer credit check process, which may require multiple days to process.

You need to implement Azure Durable Functions for the loan process. Which Azure Durable Functions type should you use?

- A. orchestrator
- B. client
- C. activity
- D. entity

Answer: A

### NEW QUESTION 23

HOTSPOT - (Topic 8)

You are developing a solution by using the Azure Event Hubs SDK. You create a standard Azure Event Hub with 16 partitions. You implement eight event processor clients.

You must balance the load dynamically when an event processor client fails. When an event processor client fails, another event processor must continue processing from the

exact point at which the failure occurred. All events must be aggregate and upload to an Azure Blob storage account

You need to implement event processing recovery for the solution.

Which SDK features should you use? To answer, select the appropriate options in the answer area.

Each correct selection is worth one point.

Requirement	Feature
Ensure that event process clients mark the position within an event sequence.	
Mark the event processor client position within a partition event sequence.	

- A. Mastered  
B. Not Mastered

**Answer:** A

**Explanation:**

Requirement	Feature
Ensure that event process clients mark the position within an event sequence.	
Mark the event processor client position within a partition event sequence.	

#### NEW QUESTION 27

- (Topic 8)

A company maintains multiple web and mobile applications. Each application uses custom in-house identity providers as well as social identity providers. You need to implement single sign-on (SSO) for all the applications. What should you do?

- A. Use Azure Active Directory B2C (Azure AD B2C) with custom policies  
B. Most Voted  
C. Use Azure Active Directory B2B (Azure AD B2B) and enable external collaboration.  
D. Use Azure Active Directory B2C (Azure AD B2C) with user flows.  
E. Use Azure Active Directory B2B (Azure AD B2B).

**Answer:** A

**Explanation:**

<https://docs.microsoft.com/en-us/azure/active-directory-b2c/custom-policy-reference-sso>

#### NEW QUESTION 28

HOTSPOT - (Topic 8)

You plan to implement an Azure Functions app.

The Azure Functions app has the following requirements:

- Must be triggered by a message placed in an Azure Storage queue.
- Must use the queue name set by an app setting named input-queue.
- Must create an Azure Blob Storage named the same as the content of the message.

You need to identify how to reference the queue and blob name in the function. Just file of the Azure Functions app.

How should you reference the names? To answer, select the appropriate values in the answer area. NOTE: Each correct selection is worth one point.

**Answer Area**

Reference type	Value
Queue name	<div>%input_queue% input_queue {input_queue} <b>%input_queue%</b></div>
Blob name	<div>{input_queue}/{id} {queueTrigger} <b>{input_queue}/{id}</b> %input_queue%/{filename}</div>

- A. Mastered  
B. Not Mastered

**Answer:** A

**Explanation:**

**Answer Area**

Reference type	Value
Queue name	<div>%input_queue% input_queue {input_queue} <b>%input_queue%</b></div>
Blob name	<div>{input_queue}/{id} {queueTrigger} <b>{input_queue}/{id}</b> %input_queue%/{filename}</div>

**NEW QUESTION 30**

- (Topic 8)

You have a web application that provides access to legal documents that are stored on Azure Blob Storage with version level immutability policies. Documents are protected with both time-based policies and legal hold policies. All time-based retention policies have AllowProtectedAppendWrites property enabled. You have a requirement to prevent the user from attempting to perform operations that would fail only if a legal hold is in effect and when all other retention policies are expired. You need to meet the requirement. Which two operations should you prevent?

- A. overwriting existing  
B. adding data to documents  
C. deleting documents  
D. creating document

**Answer:** AC

**NEW QUESTION 32**

- (Topic 8)

Your company purchases an Azure subscription and plans to migrate several on-premises virtual machines to Azure. You need to design the infrastructure required for the Azure virtual machines solution. What should you include in the design?

- A. the number of Azure Storage accounts  
B. the settings of the Azure virtual networks  
C. the size of the virtual machines  
D. the number of Azure regions

**Answer:** C

**NEW QUESTION 34**

HOTSPOT - (Topic 8)

You are building a website to access project data related to terms within your organization. The website does not allow anonymous access. Authentication is performed using an Azure Active Directory (Azure AD) app named internal.

The website has the following authentication requirements:

- Azure AD users must be able to login to the website.
- Personalization of the website must be based on membership in Active Directory groups. You need to configure the application's manifest to meet the authentication requirements.

How should you configure the manifest? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.



```
{
  ...
  "appId": "d61126e3-089b-4adb-b721-
d5023213df7d",
  [redacted] : "All",
  "optionalClaims"
  "groupMembershipClaims"

  [redacted] : true
  "allowPublicClient"
  "oauth2Permissions"
  "requiredResourceAccess"
  "oauth2AllowImplicitFlow"
  ...
}
```

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

Box 1: groupMembershipClaims

Personalization of the website must be based on membership in Active Directory groups. Group claims can also be configured in the Optional Claims section of the Application Manifest. Enable group membership claims by changing the groupMembershipClaim The valid values are:

- "All"
- "SecurityGroup"
- "DistributionList"
- "DirectoryRole"

Here we need to mention that we want to get the groups for the users. Hence we need to mention to set the groupMembershipClaims property to All.

Box 2: oauth2AllowImplicitFlow

Azure AD users must be able to login to the website.

auth2Permissions can only accept collections value like an array, not a boolean. oauth2AllowImplicitFlow accepts boolean value.

Here from the list of options given, if we want the application to fetch the required tokens , we would need to allow Implicit Flow.

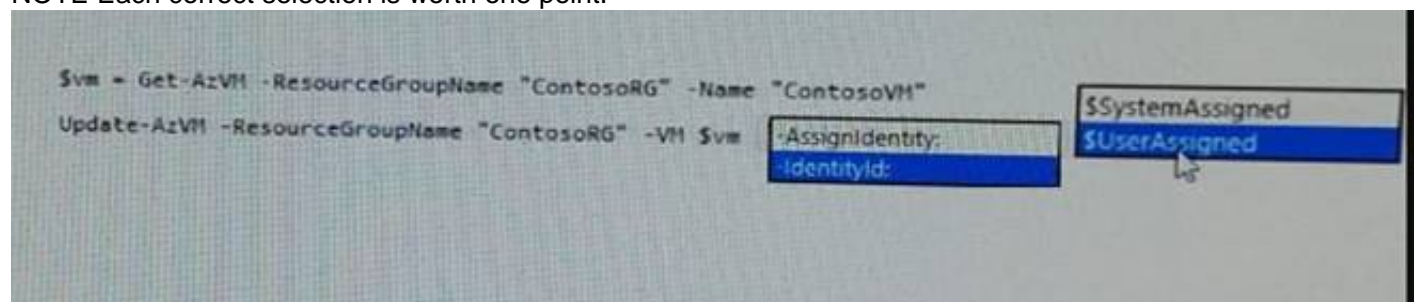
**NEW QUESTION 38**

HOTSPOT - (Topic 8)

You are developing an application that needs access to an Azure virtual machine (VM). The access lifecycle for the application must be associated with the VM service instance. You need to enable managed identity for the VM.

How should you complete the PowerShell segment? To answer, select the appropriate options in the answer area.

NOTE Each correct selection is worth one point.



- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

\$vm = Get-AzVM -ResourceGroupName myResourceGroup -Name myVM Update-AzVM -ResourceGroupName myResourceGroup -VM \$vm -

AssignIdentity:\$SystemAssigned

<https://docs.microsoft.com/en-us/azure/active-directory/managed-identities-azure-resources/qs-configure-powershell-windows-vm>

**NEW QUESTION 41**

- (Topic 8)

You develop and deploy a web app to Azure App Service. The Azure App Service uses a Basic plan in a region.

Users report that the web app is responding must capture the complete call stack to help performance issues in code. Call stack data must be correlated across app instances. You must minimize cost and impact to users on the web app.

You need to capture the telemetry.



Which three actions should you perform? Each answer presents part Of the solution NOTE: Each correct selection is worth point

- A. Enable Application Insights site extensions.
- B. Enable Profiler.
- C. Restart all apps in the App Service plan.
- D. Enable Snapshot debugger.
- E. Enable remote debugging.
- F. Enable the Always On setting for the app service.
- G. Upgrade the Azure App Service plan to Premium

**Answer:** CDF

#### NEW QUESTION 46

HOTSPOT - (Topic 8)

You are developing an ASP.NET Core time sheet application that runs as an Azure Web App. Users of the application enter their time sheet information on the first day of every month.

The application uses a third-party web service to validate data.

The application encounters periodic server errors due to errors that result from calling a third-party web server. Each request to the third-party server has the same chance of failure.

You need to configure an Azure Monitor alert to detect server errors unrelated to the third- party service. You must minimize false-positive alerts.

How should you complete the Azure Resource Manager template? To answer, select the appropriate options in the answer area.

NOTE:Each correct selection is worth one point.

```
"type": "Microsoft.Insights/metricAlerts",
"properties": {
  "criteria": {
    "odata.type": ". . .",
    "allOf": [
      {
        "criterionType": "
        DynamicThresholdCriterion
        SingleResourceMultipleMetricCriteria

        "metricName": "
        Http4xx
        Http5xx

        "alertSensitivity": "
        Low
        High

      }
    ]
  }
}
```

- A. Mastered
- B. Not Mastered

**Answer:** A

#### Explanation:

Box 1: DynamicThresholdCriterion

Box 2: Http5xx

Server errors are in the 5xx range. Client errors are in the 4xx range

Box 3: Low

#### NEW QUESTION 48

- (Topic 8)

You are developing a .Net web application that stores data is Azure Consmos DB. The application must use the Core API and allow millions of reads and writes.

The Azure Cosmos DII account has been created with multiple write region enabled. The application has been deployed to the East US2 and Central US region.

You need to update the application to support multi-region writes.

What are two possible ways to achieve this goal? Each correct answer presents parts of the solutions.

NOTE: Each correct selection is worth one point.

- A. Update the ConnectionPolicy class for the Cosmos client and populate the PreferredLocations property based on the geo-proximity of the application.
- B. Update Azure Cosmos DB to use the Strong consistency leve
- C. Add indexed properties to the container to indicate region.
- D. Update the ConnectionPolicy class for the Cosmos client and set the UseMultipleWriteLocations property to true.
- E. Create and deploy a custom conflict resolution policy.
- F. Update Azure Cosmos DB to use the Session consistency leve
- G. Send the SessionToken property value from the FeedResponse object of the write action to the end- user by using a cookie.

**Answer:** CD

#### NEW QUESTION 49

HOTSPOT - (Topic 8)

You are creating a CLI script that creates an Azure web app related services in Azure App Service. The web app uses the following variables:

Variable name	Value
\$gitrepo	https://github.com/Contos/webapp
&webappname	Webapp1103

You need to automatically deploy code from GitHub to the newly created web app.  
 How should you complete the script? To answer, select the appropriate options in the answer area.  
 NOTE: Each correct selection is worth one point.

```
az group create --location westeurope --name myResourceGroup
```

▼

--name \$webappname --resource-group myResourceGroup --sku FREE  
 az webapp create  
 az appservice plan create  
 az webapp deployment  
 az group delete

▼

--name \$webappname --resource-group myResourceGroup  
 az webapp create  
 az appservice plan create  
 az webapp deployment  
 az group delete

▼

--repo-url \$gitrepo --branch master --manual-integration  
 git clone \$gitrepo  
 --plan \$webappname

▼

source config --name \$webappname  
 az webapp create  
 az appservice plan create  
 az webapp deployment  
 az group delete

▼

--resource-group myResourceGroup  
 --repo-url \$gitrepo --branch master --manual-integration  
 git clone \$gitrepo  
 --plan \$webappname

- A. Mastered  
 B. Not Mastered

**Answer:** A

#### Explanation:

Box 1: az appservice plan create

The azure group creates command successfully returns JSON result. Now we can use resource group to create a azure app service plan

Box 2: az webapp create Create a new web app..

Box 3: --plan \$webappname

with the serviceplan we created in step 1.

Box 4: az webapp deployment

Continuous Delivery with GitHub. Example:

az webapp deployment source config --name firstsamplewebsite1 --resource-group websites--repo-url \$gitrepo --branch master --git-token \$token

Box 5: --repo-url \$gitrepo --branch master --manual-integration

#### NEW QUESTION 52

- (Topic 8)

You are a developing a SaaS application that stores data as key value pairs.

You must make multiple editions of the application available. In the lowest cost edition, the performance must be best-effort, and there is no regional failover.

In higher cos! editions customers must be able to select guaranteed performance and support for multiple regions. Azure costs must be minimized.

Which Azure Cosmos DB API should you use for the application?

- A. Core  
 B. MongoDB  
 C. Cassandra  
 D. Table API

**Answer:** D

#### NEW QUESTION 55

HOTSPOT - (Topic 8)

You are implementing a software as a service (SaaS) ASP.NET Core web service that will run as an Azure Web App. The web service will use an on-premises SQL Server database for storage. The web service also includes a WebJob that processes data updates. Four customers will use the web service.

•Each instance of the WebJob processes data for a single customer and must run as a singleton instance.

•Each deployment must be tested by using deployment slots prior to serving production data.

•Azure costs must be minimized.

•Azure resources must be located in an isolated network. You need to configure the App Service plan for the Web App.

How should you configure the App Service plan? To answer, select the appropriate settings in the answer area.

NOTE: Each correct selection is worth one point.

App service plan setting	Value
Number of VM instances	<div><div></div><div>2</div><div>4</div><div>8</div><div>16</div></div>
Pricing tier	<div><div></div><div>Isolated</div><div>Standard</div><div>Premium</div><div>Consumption</div></div>

- A. Mastered  
B. Not Mastered

**Answer:** A

**Explanation:**

Number of VM instances: 4

You are not charged extra for deployment slots.

Pricing tier: Isolated

The App Service Environment (ASE) is a powerful feature offering of the Azure App Service that gives network isolation and improved scale capabilities. It is essentially a deployment of the Azure App Service into a subnet of a customer's Azure Virtual Network (VNet).

References:

<https://azure.microsoft.com/sv-se/blog/announcing-app-service-isolated-more-power-scale-and-ease-of-use/>

**NEW QUESTION 58**

- (Topic 8)

You provide an Azure API Management managed web service to clients. The back end web service implements HTTP Strict Transport Security (HSTS).

Every request to the backend service must include a valid HTTP authorization header. You need to configure the Azure API Management instance with an authentication policy. Which two policies can you use? Each correct answer presents a complete solution NOTE: Each correct selection is worth one point.

- A. Certificate Authentication  
B. Basic Authentication  
C. OAuth Client Credential Grant  
D. Digest Authentication

**Answer:** AB

**NEW QUESTION 60**

HOTSPOT - (Topic 8)

You are preparing to deploy a Python website to an Azure Web App using a container. The solution will use multiple containers in the same container group. The Dockerfile that builds the container is as follows:

```
FROM python:3
ADD website.py
CMD [ "python", "./website.py"]
```

You build a container by using the following command. The Azure Container Registry instance named images is a private registry.

```
docker build -t images.azurecr.io/website:v1.0.0
```

The user name and password for the registry is admin.

The Web App must always run the same version of the website regardless of future builds. You need to create an Azure Web App to run the website.

How should you complete the commands? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

```
az configure --defaults web=website
az configure --defaults group=website
az appservice plan create --name websitePlan

az webapp create --plan websitePlan

az webapp config
```

--sku SHARED
--tags container
--sku B1 --hyper-v
--sku B1 --is-linux

--deployment-source-url images.azurecr.io/website:v1.0.0
--deployment-source-url images.azurecr.io/website:latest
--deployment-container-image-name images.azurecr.io/website:v1.0.0
--deployment-container-image-name images.azurecr.io/website:latest

set --python-version 2.7 --generic-configurations user=admin password=admin
set --python-version 3.6 --generic-configurations user=admin password=admin
container set --docker-registry-server-url https://images.azurecr.io -u admin -p admin
container set --docker-registry-server-url https://images.azurecr.io/wsebsite -u admin -p admin

- A. Mastered
- B. Not Mastered

Answer: A

**Explanation:**

Box 1: --SKU B1 --hyper-v  
--hyper-v  
Host web app on Windows container.  
Box 2: --deployment-source-url images.azurecr.io/website:v1.0.0  
--deployment-source-url -u  
Git repository URL to link with manual integration.  
The Web App must always run the same version of the website regardless of future builds.  
Incorrect:  
--deployment-container-image-name -i  
Linux only. Container image name from Docker Hub, e.g. publisher/image-name:tag.  
Box 3: az webapp config container set -url https://images.azurecr.io -u admin -p admin  
az webapp config container set Set a web app container's settings.  
Parameter: --docker-registry-server-url -r The container registry server url.  
The Azure Container Registry instance named images is a private registry. Example:  
az webapp config container set --docker-registry-server-url https://{azure-container-registry-name}.azurecr.io

**NEW QUESTION 65**

- (Topic 8)

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 are developing an Azure Service application that processes queue data when it receives a message from a mobile application. Messages may not be sent to the service consistently.  
You have the following requirements:  
? Queue size must not grow larger than 80 gigabytes (GB).  
? Use first-in-first-out (FIFO) ordering of messages.  
? Minimize Azure costs.  
You need to implement the messaging solution.  
Solution: Use the .Net API to add a message to an Azure Service Bus Queue from the mobile application. Create an Azure Function App that uses an Azure Service Bus Queue trigger.  
Does the solution meet the goal?

- A. Yes
- B. No

Answer: A

**Explanation:**

You can create a function that is triggered when messages are submitted to an Azure Storage queue.  
Reference:  
<https://docs.microsoft.com/en-us/azure/azure-functions/functions-create-storage-queue-triggered-function>

**NEW QUESTION 70**

- (Topic 8)

You must implement Application Insights instrumentation capabilities utilizing the Azure Mobile Apps SDK to provide meaningful analysis of user interactions with a mobile app.  
You need to capture the data required to implement the Usage Analytics feature of Application Insights. Which three data values should you capture? Each correct answer presents part of the solution  
NOTE: Each correct selection is worth one point.

- A. Trace
- B. Session Id



- C. Exception
- D. User Id
- E. Events

**Answer:** ADE

**Explanation:**

Application Insights is a service for monitoring the performance and usage of your apps. This module allows you to send telemetry of various kinds (events, traces, etc.) to the Application Insights service where your data can be visualized in the Azure Portal.

Application Insights manages the ID of a session for you. References:

<https://github.com/microsoft/ApplicationInsights-Android>

**NEW QUESTION 74**

- (Topic 8)

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

Margie's Travel is an international travel and bookings management service. The company is expanding into restaurant bookings. You are tasked with implementing Azure Search for the restaurants listed in their solution.

You create the index in Azure Search.

You need to import the restaurant data into the Azure Search service by using the Azure Search .NET SDK.

Solution:

- \* 1. Create a SearchIndexClient object to connect to the search index.
- \* 2. Create a DataContainer that contains the documents which must be added.
- \* 3. Create a DataSource instance and set its Container property to the DataContainer.
- \* 4. Call the Documents.Suggest method of the SearchIndexClient and pass the DataSource.

Does the solution meet the goal?

- A. Yes
- B. No

**Answer:** B

**Explanation:**

Use the following method:

- \* 1.- Create a SearchIndexClient object to connect to the search index
- \* 2.- Create an IndexBatch that contains the documents which must be added.
- \* 3.- Call the Documents.Index method of the SearchIndexClient and pass the IndexBatch.

References:

<https://docs.microsoft.com/en-us/azure/search/search-howto-dotnet-sdk>

**NEW QUESTION 75**

- (Topic 8)

You are developing an Azure-based web application. The application goes offline periodically to perform offline data processing. While the application is offline, numerous Azure Monitor alerts fire which result in the on-call developer being paged.

The application must always log when the application is offline for any reason.

You need to ensure that the on-call developer is not paged during offline processing. What should you do?

- A. Add Azure Monitor alert processing rules to suppress notifications.
- B. Create an Azure Monitor Metric Alert.
- C. Build an Azure Monitor action group that suppresses the alerts.
- D. Disable Azure Monitor Service Health Alerts during offline processing.

**Answer:** C

**NEW QUESTION 76**

- (Topic 8)

You are developing an e-commerce solution that uses a microservice architecture.

You need to design a communication backplane for communicating transactional messages between various parts of the solution. Messages must be communicated in first-in-first-out (FIFO) order.

What should you use?

- A. Azure Storage Queue
- B. Azure Event Hub
- C. Azure Service Bus
- D. Azure Event Grid

**Answer:** C

**Explanation:**

As a solution architect/developer, you should consider using Service Bus queues when:

? Your solution requires the queue to provide a guaranteed first-in-first-out (FIFO) ordered delivery.

Reference:

<https://docs.microsoft.com/en-us/azure/service-bus-messaging/service-bus-azure-and-service-bus-queues-compared-contrasted>

**NEW QUESTION 81**

DRAG DROP - (Topic 8)

You are authoring a set of nested Azure Resource Manager templates to deploy multiple Azure resources.

The templates must be tested before deployment and must follow recommended practices. You need to validate and test the templates before deployment.

Which tools should you use? To answer, drag the appropriate tools to the correct requirements. Each tool 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.

Tools	Requirement	Tool
<div>Parameter file</div> <div>Template function</div> <div>Azure Resource Manager test toolkit</div> <div>User-defined function</div> <div>What-if operation</div> <div>Azure Deployment Manager</div>	Determine whether the templates follow recommended practices.	<div>Tool</div>
	Test and validate changes that templates will make to the environment.	<div>Tool</div>

- A. Mastered  
B. Not Mastered

Answer: A

Explanation:

<https://docs.microsoft.com/en-us/azure/azure-resource-manager/templates/test-toolkit>  
<https://docs.microsoft.com/en-us/azure/azure-resource-manager/templates/deploy-what-if?tabs=azure-powershell>

NEW QUESTION 84

DRAG DROP - (Topic 8)

You develop software solutions for a mobile delivery service. You are developing a mobile app that users can use to order from a restaurant in their area. The app uses the following workflow:

- \* 1. A driver selects the restaurants for which they will deliver orders.
- \* 2. Orders are sent to all available drivers in an area.
- \* 3. Only orders for the selected restaurants will appear for the driver.
- \* 4. The first driver to accept an order removes it from the list of available orders.

You need to implement an Azure Service Bus solution.

Which three actions should you perform in sequence? To answer, move the appropriate actions from the list of actions to the answer area and arrange them in the correct order.

Actions	Answer area
Create a Service Bus topic for each restaurant for which a driver can receive messages.	
Create a single Service Bus topic.	
Create a single Service Bus subscription.	
Create a single Service Bus Namespace.	
Create a Service Bus Namespace for each restaurant for which a driver can receive messages.	
Create a Service Bus subscription for each restaurant for which a driver can receive orders.	

- A. Mastered  
B. Not Mastered

Answer: A

Explanation:

Box 1: Create a single Service Bus Namespace  
To begin using Service Bus messaging entities in Azure, you must first create a namespace with a name that is unique across Azure. A namespace provides a scoping container for addressing Service Bus resources within your application.  
Box 2: Create a Service Bus Topic for each restaurant for which a driver can receive messages.  
Create topics.  
Box 3: Create a Service Bus subscription for each restaurant for which a driver can receive orders.

NEW QUESTION 87

DRAG DROP - (Topic 8)

You are a developer for a Software as a Service (SaaS) company. You develop solutions that provide the ability to send notifications by using Azure Notification Hubs.

You need to create sample code that customers can use as a reference for how to send raw notifications to Windows Push Notification Services (WNS) devices. The sample code must not use external packages.

How should you complete the code segment? To answer, drag the appropriate code segments to the correct locations. Each code segment 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.

Code segments	Answer Area
<div>raw</div> <div>windows</div> <div>windowsphone</div> <div>application/xml</div> <div>application/json</div> <div>application/octet-stream</div>	<pre>var endpoint = "..."; var payload = "..."; var request = new HttpRequestMessage(HttpMethod.Post, endpoint); request.Headers.Add("X-WNS-Type", "wns/raw"); request.Headers.Add("ServiceBusNotification-Format", "Code segment"); request.Content = new StringContent(payload, Encoding.UTF8, "Code segment"); var client = new HttpClient(); await client.SendAsync(request);</pre>

- A. Mastered  
B. Not Mastered

**Answer:** A

**Explanation:**

Box 1: windows Example code:

```
var request = new HttpRequestMessage(method, $"{resourceUri}?api-version=2017-04"); request.Headers.Add("Authorization", createToken(resourceUri, KEY_NAME, KEY_VALUE)); request.Headers.Add("X-WNS-Type", "wns/raw"); request.Headers.Add("ServiceBusNotification-Format", "windows"); return request;
```

Box 2: application/octet-stream

Example code capable of sending a raw notification: string resourceUri =

```
 $"https://{NH_NAMESPACE}.servicebus.windows.net/{HUB_NAME}/messages/"; using (var request = CreateHttpRequest(HttpMethod.Post, resourceUri)) { request.Content = new StringContent(content, Encoding.UTF8,"application/octet-stream"); request.Content.Headers.ContentType.CharSet = string.Empty; var httpClient = new HttpClient(); var response = await httpClient.SendAsync(request); Console.WriteLine(response.StatusCode); }
```

**NEW QUESTION 92**

- (Topic 8)

You need to design network connectivity for a subnet in an Azure virtual network. The subnet will contain 30 virtual machines. The virtual machines will establish outbound connections to internet hosts by using the same a pool of four public IP addresses, inbound connections to the virtual machines will be prevented. What should include in the design?

- A. Azure Private Link  
B. NAT Gateway  
C. User Defined Routes  
D. Azure Virtual WAN

**Answer:** D

**NEW QUESTION 97**

- (Topic 8)

You are designing a multi-tiered application that will be hosted on Azure virtual machines. The virtual machines will run Windows Server. Front-end servers will be accessible from the Internet over port 443. The other servers will NOT be directly accessible over the internet

You need to recommend a solution to manage the virtual machines that meets the following requirement

- Allows the virtual machine to be administered by using Remote Desktop.
- Minimizes the exposure of the virtual machines on the Internet Which Azure service should you recommend?

- A. Azure Bastion  
B. Service Endpoint  
C. Azure Private Link  
D. Azure Front Door

**Answer:** C

**NEW QUESTION 99**

HOTSPOT - (Topic 8)

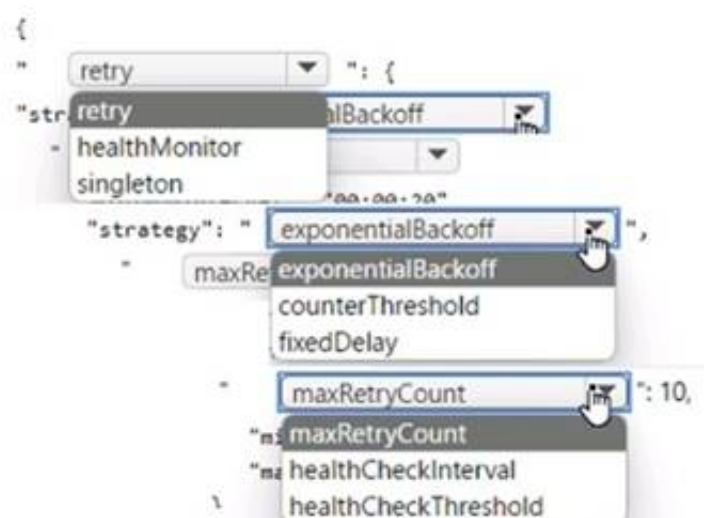
All functions in the app meet the following requirements:

- Run until either a successful run or until 10 run attempts occur.
- Ensure that there are at least 20 seconds between attempts for up to 15 minutes. You need to configure the hostjson file.

How should you complete the code segment? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

**Answer Area**



- A. Mastered  
B. Not Mastered

**Answer:** A

**Explanation:**

- (Topic 8)

You are developing and deploying several ASP.Net web applications to Azure App Service. You plan to save session state information and HTML output. You must use a storage mechanism with the following requirements:

- Proposed Solution: Add the web applications to Docker containers. Deploy the containers. Deploy the containers to Azure Kubernetes Service (AKS). Does the solution meet the goal?

- Answer: B**

Instead use Azure Cache for Redis.

References:

<https://docs.microsoft.com/en-us/azure/azure-cache-for-redis/cache-aspnet-session-state-provider>

HOTSPOT - (Topic 8)

You are a developer building a web site using a web app. The web site stores configuration data in Azure App Configuration. Access to Azure App Configuration has been configured to use the identity of the web app for authentication. Security requirements specify that no other authentication systems must be used. You need to load configuration data from Azure App Configuration.

How should you complete the code? To answer, select the appropriate options in the answer area.

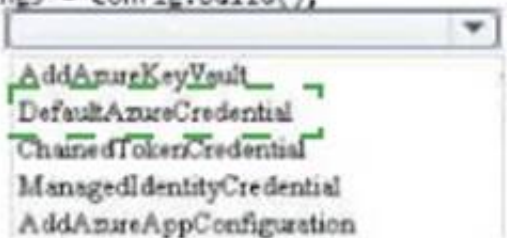
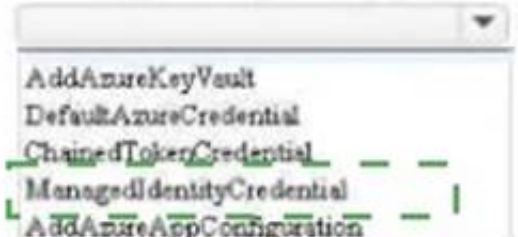
```
options.Connect(new Uri(settings["AppConfig:Endpoint"])),
new AddAzureKeyVault ());
```



- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

```
public static IHostBuilder CreateHostBuilder(string[] args) =>
    Host.CreateDefaultBuilder(args)
        .ConfigureWebHostDefaults(web =>
        {
            web.ConfigureAppConfiguration((hc, config) =>
            {
                var settings = config.Build();
                config.  (options =>
                {
                    options.Connect(new Uri(settings["AppConfig:Endpoint"]),
                        new  ());
                });
            });
        });
```

#### NEW QUESTION 109

- (Topic 8)

You are developing a solution that will use Azure messaging services.

You need to ensure that the solution uses a publish-subscribe model and eliminates the need for constant polling.

What are two possible ways to achieve the goal? Each correct answer presents a complete solution.

NOTE: Each correct selection is worth one point.

- A. Service Bus
- B. Event Hub
- C. Event Grid
- D. Queue

**Answer:** AC

**Explanation:**

It is strongly recommended to use available messaging products and services that support a publish-subscribe model, rather than building your own. In Azure, consider using Service Bus or Event Grid. Other technologies that can be used for pub/sub messaging include Redis, RabbitMQ, and Apache Kafka.

Reference:

<https://docs.microsoft.com/en-us/azure/architecture/patterns/publisher-subscriber>

#### NEW QUESTION 110

- (Topic 8)

You are developing a web application that uses the Microsoft identity platform to authenticate users and resources. The web application calls several REST APIs.

The APIs require an access token from the Microsoft identity platform. You need to request a token.

Which three properties should you use? Each correct answer presents part of the solution. NOTE: Each correct selection is worth one point.

- A. Application name
- B. Application secret
- C. Application ID
- D. Supported account type
- E. Redirect URI/URL

**Answer:** ABC

#### NEW QUESTION 114

HOTSPOT - (Topic 8)

You are developing a solution that uses the Azure Storage Client library for .NET. You have the following code: (Line numbers are included for reference only.)

```
01 CloudBlockBlob src = null;
02 try
03 {
04     src = container.ListBlobs().OfType<CloudBlockBlob>().FirstOrDefault();
05     var id = await src.AcquireLeaseAsync(null);
06     var dst = container.GetBlockBlobReference(src.Name);
07     string cpid = await dst.StartCopyAsync(src);
08     await dst.FetchAttributeAsync();
09     return id;
10 }
11 catch (Exception e)
12 {
13     throw;
14 }
15 finally
16 {
17     if (src != null)
18         await src.FetchAttributesAsync();
19     if (src.Properties.LeaseState != LeaseState.Available)
20         await src.BreakLeaseAsync(new TimeSpan(0));
21 }
```

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

Statement	Yes	No
The code creates an infinite lease	<input type="radio"/>	<input type="radio"/>
The code at line 06 always creates a new blob	<input type="radio"/>	<input type="radio"/>
The finally block releases the lease	<input type="radio"/>	<input type="radio"/>

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Box 1: Yes  
AcquireLeaseAsync does not specify leaseTime.  
leaseTime is a TimeSpan representing the span of time for which to acquire the lease, which will be rounded down to seconds. If null, an infinite lease will be acquired. If not null, this must be 15 to 60 seconds.

Box 2: No  
The GetBlockBlobReference method just gets a reference to a block blob in this container.

Box 3: Yes  
The BreakLeaseAsync method initiates an asynchronous operation that breaks the current lease on this container.

NEW QUESTION 119

HOTSPOT - (Topic 8)  
You are developing a data storage solution for a social networking app.  
The solution requires a mobile app that stores user information using Azure Table Storage. You need to develop code that can insert multiple sets of user information.  
How should you complete the code? To answer, select the appropriate options in the answer area.  
NOTE: Each correct selection is worth one point.

```
CloudStorageAccount storageAccount = CloudStorageAccount.Parse(  
    CloudConfigurationManager.GetSetting("StorageConnectionString"));  
CloudTableClient tableClient = storageAccount.CreateCloudTableClient();  
CloudTable table = tableClient.GetTableReference("clients");  
Table.CreateIfNotExists();
```

op = new

() ;

TableOperation

TableBatchOperaton

TableEntity

TableQuery

TableOperation

TableBatchOperaton

TableEntity

TableQuery

...

table.

(op) ;

ExecuteBatch

Execute

Insert

InsertOrMerge

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Box 1, Box 2: TableBatchOperation Create the batch operation.  
TableBatchOperation op = new TableBatchOperation();  
Box 3: ExecuteBatch  
/ Execute the batch operation. table.ExecuteBatch(op);  
Note: You can insert a batch of entities into a table in one write operation. Some other notes on batch operations:  
You can perform updates, deletes, and inserts in the same single batch operation. A single batch operation can include up to 100 entities.  
All entities in a single batch operation must have the same partition key.  
While it is possible to perform a query as a batch operation, it must be the only operation in the batch.  
References:  
<https://docs.microsoft.com/en-us/azure/cosmos-db/table-storage-how-to-use-dotnet>

NEW QUESTION 123

DRAG DROP - (Topic 8)  
You develop a web application.  
You need to register the application with an active Azure Active Directory (Azure AD) tenant.  
Which three actions should you perform in sequence? To answer, move all actions from the list of actions to the answer area and arrange them in the correct order.

Actions

Answer Area

Select **Manifest** from the middle-tier service registration.

In Enterprise Applications, select **New application**.

Add a Cryptographic key.

Create a new application and provide the name, account type, and redirect URL

Select the Azure AD instance.

Use an access token to access the secure resource.

In App Registrations, select **New registration**.

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- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Register a new application using the Azure portal  
? Sign in to the Azure portal using either a work or school account or a personal Microsoft account.  
? If your account gives you access to more than one tenant, select your account in the upper right corner. Set your portal session to the Azure AD tenant that you

want.

? Search for and select Azure Active Directory. Under Manage, select App registrations.

? Select New registration. (Step 1)

? In Register an application, enter a meaningful application name to display to users.

? Specify who can use the application. Select the Azure AD instance. (Step 2)

? Under Redirect URI (optional), select the type of app you're building: Web or Public client (mobile & desktop). Then enter the redirect URI, or reply URL, for your application. (Step 3)

? When finished, select Register.

#### NEW QUESTION 124

HOTSPOT - (Topic 8)

You are building a traffic monitoring system that monitors traffic along six highways. The system produces time series analysis-based reports for each highway.

Data from traffic sensors are stored in Azure Event Hub.

Traffic data is consumed by four departments. Each department has an Azure Web App that displays the time-series-based reports and contains a WebJob that processes the incoming data from Event Hub. All Web Apps run on App Service Plans with three instances.

Data throughout must be maximized. Latency must be minimized. You need to implement the Azure Event Hub.

Which settings should you use? To answer, select the appropriate options in the answer area.

NOTE:Each correct selection is worth one point.

Setting	Value
Number of partitions	<div><div></div><div>▼</div><div>3</div><div>4</div><div>6</div><div>12</div></div>
Partition Key	<div><div></div><div>▼</div><div>Highway</div><div>Department</div><div>Timestamp</div><div>VM name</div></div>

- A. Mastered
- B. Not Mastered

**Answer:** A

#### Explanation:

Box 1: 6

The number of partitions is specified at creation and must be between 2 and 32. There are 6 highways.

Box 2: Highway References:

<https://docs.microsoft.com/en-us/azure/event-hubs/event-hubs-features>

#### NEW QUESTION 125

- (Topic 8)

You are creating an app that will use CosmosDB for data storage. The app will process batches of relational data.

You need to select an API for the app. Which API should you use?

- A. MongoDBAPI
- B. Table API
- C. SQL API
- D. Cassandra API

**Answer:** C

#### Explanation:

For relational data you will need the SQL API

Reference:

<https://docs.microsoft.com/en-us/azure/cosmos-db/choose-api>

#### NEW QUESTION 127

- (Topic 8)

You are developing an Azure Function App that runs in an App Service Plan. The Azure Function is triggered by a Timer object. You observe that the Azure Function does not reliably trigger when scheduled. Which two actions should you perform?

- A. Verify that Always On is enabled.
- B. Modify the trigger to use a SignalR trigger.
- C. Ensure that the function has a retry configured.
- D. Modify the trigger to use Consumption mode instead of the App Service plan.



Answer: AC

#### NEW QUESTION 129

- (Topic 8)

Note: This question is part of a series of questions that present the same scenario. Each question in the series contains a unique solution. Determine whether the solution meets the stated goals.

You are developing and deploying several ASP.Net web applications to Azure App Service. You plan to save session state information and HTML output. You must use a storage mechanism with the following requirements:

- Share session state across all ASP.NET web applications
- Support controlled, concurrent access to the same session state data for multiple readers and a single writer
- Save full HTTP responses for concurrent requests You need to store the information.

Proposed Solution: Deploy and configure an Azure Database for PostgreSQL. Update the web applications.

Does the solution meet the goal?

- A. Yes
- B. No

Answer: B

#### Explanation:

Instead deploy and configure Azure Cache for Redis. Update the web applications. Reference:

<https://docs.microsoft.com/en-us/azure/architecture/best-practices/caching#managing-concurrency-in-a-cache>

#### NEW QUESTION 133

HOTSPOT - (Topic 8)

You are working for Contoso, Ltd.

You define an API Policy object by using the following XML markup:

```
<set-variable name= "bodySize" value="@ (context.Request.Headers["Content-Length"] [0])"/>
<choose>
  <when condition= "@ (int.Parse(context.Variables.GetValueOrDefault<string> ("bodySize"))<512000)">
</when>
<otherwise>
  <rewrite-uri template= "/put"/>
  <set-backend-service base-url= "http://contoso.com/api/9.1/" />
</otherwise>
</choose>
```

For each of the following statements, select Yes if the statement is true. Otherwise, select No.

NOTE:Each correct selection is worth one point.

Statement	Yes	No
The XML segment belongs in the <inbound> section of the policy.	<input type="radio"/>	<input type="radio"/>
If the body size is >256k, an error will occur.	<input type="radio"/>	<input type="radio"/>
If the request is http://contoso.com/api/9.2/, the policy will retain the higher version.	<input type="radio"/>	<input type="radio"/>

- A. Mastered
- B. Not Mastered

Answer: A

#### Explanation:

Box 1: Yes

Use the set-backend-service policy to redirect an incoming request to a different backend than the one specified in the API settings for that operation. Syntax: <set-backend-service base-url="base URL of the backend service" />

Box 2: No

The condition is on 512k, not on 256k.

Box 3: No

The set-backend-service policy changes the backend service base URL of the incoming request to the one specified in the policy.

#### NEW QUESTION 134

- (Topic 8)

You are developing several microservices to deploy to a Azure Service cluster. The microservices manage data stored in Azure Cosmos DB and Azure Blob storage. The data is secured by using customer-managed keys stored in Aue Key Vault.

You must automate key rotation for all Key Vault keys and allow for manual key rotation. Keys must rotate every three months. Notifications Of expiring keys must be sent before key expiry.

You need to configure key rotation and enable key expiry notifications.

Which two actions should you perform? Each correct answer presents part Of solution. NOTE: Each correct selection is worth

- A. Create and configure a new Azure Event Grid instance.
- B. Create configure a key rotation policy during key creation

- C. Create and assign an Azure Key Vault access
- D. Configure Azure Key Vault

**Answer:** BD

**Explanation:**

<https://learn.microsoft.com/en-us/azure/key-vault/keys/how-to-configure-key-rotation>

**NEW QUESTION 137**

DRAG DROP - (Topic 8)

You develop and deploy several APIs to Azure API Management. You create the following policy fragment named APICounts:

```
<fragment>
  <emit-metric value="1" namespace="custom-metrics">
    <dimension name="User ID" />
    <dimension name="Operation ID" />
    <dimension name="API ID" />
    <dimension name="Client IP" value="@context.Request.IpAddress" />
  </emit-metric>
</fragment>
```

The policy fragment must be reused across various scopes and APIs. The policy fragment must be applied to all APIs and run when a calling system invokes any API.

You need to implement the policy fragment.

How should you complete the policy segment? To answer, drag the appropriate XML elements to the correct targets. Each XML element 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.

XML elements	Answer Area
name	<pre>&lt;policies&gt;   &lt;[ ]&gt;     &lt;[ ] [ ]="APICounts" /&gt;     &lt;base /&gt;   &lt;/[ ]&gt;   . . . &lt;/policies&gt;</pre>
inbound	
outbound	
set-variable	
fragment-id	
include-fragment	

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

<https://learn.microsoft.com/en-us/azure/api-management/include-fragment-policy>

**NEW QUESTION 142**

- (Topic 8)

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 develop a software as a service (SaaS) offering to manage photographs. Users upload photos to a web service which then stores the photos in Azure Storage Blob storage. The storage account type is General-purpose V2.

When photos are uploaded, they must be processed to produce and save a mobile-friendly version of the image. The process to produce a mobile-friendly version of the image must start in less than one minute.

You need to design the process that starts the photo processing.

Solution: Use the Azure Blob Storage change feed to trigger photo processing. Does the solution meet the goal?

- A. Yes
- B. No

**Answer:** B

**Explanation:**

The change feed is a log of changes that are organized into hourly segments but appended to and updated every few minutes. These segments are created only when there are blob change events that occur in that hour.

Instead catch the triggered event, so move the photo processing to an Azure Function triggered from the blob upload.

Reference:

<https://docs.microsoft.com/en-us/azure/storage/blobs/storage-blob-change-feed> <https://docs.microsoft.com/en-us/azure/storage/blobs/storage-blob-event-overview>

**NEW QUESTION 147**

- (Topic 8)

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 develop an HTTP triggered Azure Function app to process Azure Storage blob data. The app is triggered using an output binding on the blob.

The app continues to time out after four minutes. The app must process the blob data. You need to ensure the app does not time out and processes the blob data.  
Solution: Pass the HTTP trigger payload into an Azure Service Bus queue to be processed by a queue trigger function and return an immediate HTTP success response.

Does the solution meet the goal?

- A. Yes
- B. No

**Answer:** A

**Explanation:**

Large, long-running functions can cause unexpected timeout issues. General best practices include:

Whenever possible, refactor large functions into smaller function sets that work together and return responses fast. For example, a webhook or HTTP trigger function might require an acknowledgment response within a certain time limit; it's common for webhooks to require an immediate response. You can pass the HTTP trigger payload into a queue to be processed by a queue trigger function. This approach lets you defer the actual work and return an immediate response.

Reference:

<https://docs.microsoft.com/en-us/azure/azure-functions/functions-best-practices>

**NEW QUESTION 152**

- (Topic 8)

You are building a B2B web application that uses Azure B2B collaboration for authentication. Paying customers authenticate to Azure B2B using federation.

The application allows users to sign up for trial accounts using any email address.

When a user converts to a paying customer, the data associated with the trial should be kept, but the user must authenticate using federation.

You need to update the user in Azure Active Directory (Azure AD) when they convert to a paying customer.

Which Graph API parameter is used to change authentication from one-time password to federation?

- A. `uscrFlowType`
- B. `Status`
- C. `invitedUstr`
- D. `resetRedemption`

**Answer:** B

**NEW QUESTION 156**

- (Topic 8)

Your company has several containers based on the following operating systems:

- Windows Server 2019 Nano Server
- Windows Server 2019 Server Core
- Windows Server 2022 Nano Server
- Windows Server 2022 Server Core
- Linux

You plan to migrate the containers to an Azure Kubernetes cluster. What is the minimum number of node pools that the cluster must have?

- A. 1
- B. 2
- C. 3
- D. 6

**Answer:** C

**NEW QUESTION 159**

HOTSPOT - (Topic 8)

You plan to deploy a new application to a Linux virtual machine (VM) that is hosted in Azure.

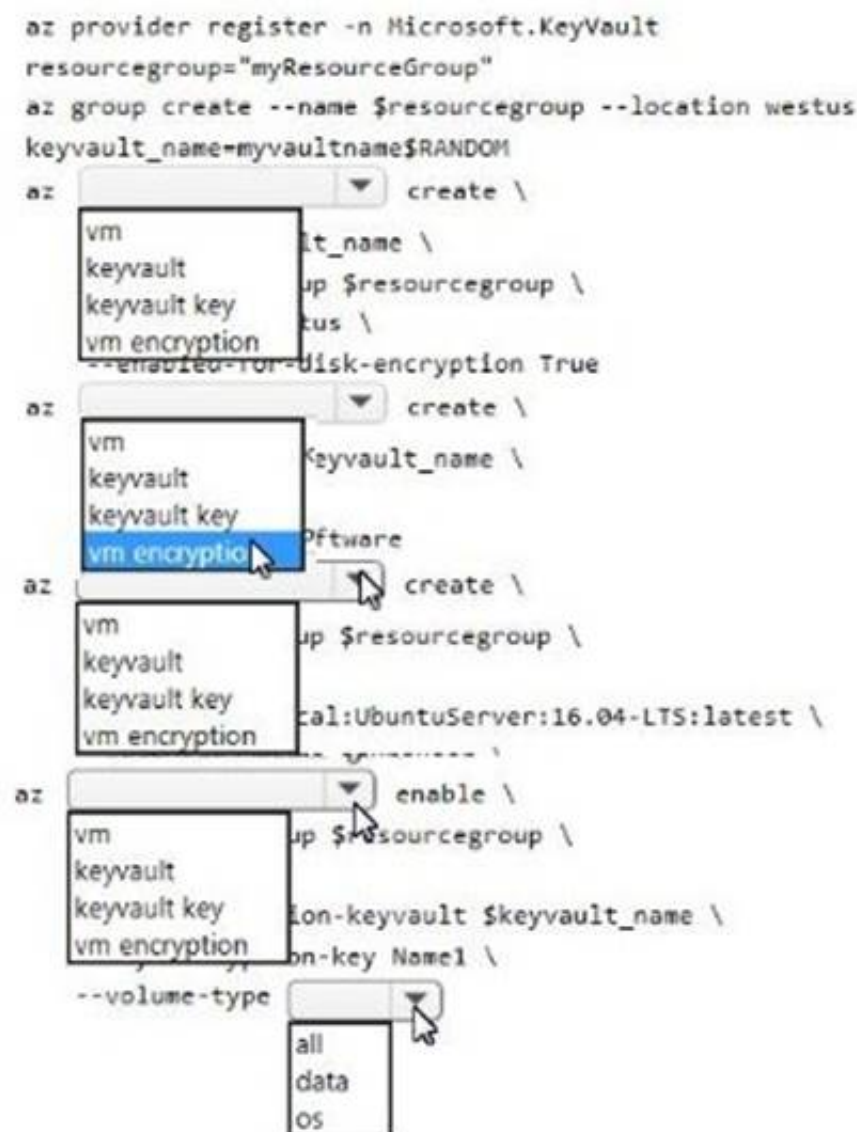
The entire VM must be secured at rest by using industry-standard encryption technology to address organizational security and compliance requirements.

You need to configure Azure Disk Encryption for the VM.

How should you complete the Azure CLI commands? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

## Answer Area



- A. Mastered
- B. Not Mastered

**Answer:** A

### Explanation:

Box 1: keyvault

Create an Azure Key Vault with az keyvault create and enable the Key Vault for use with disk encryption. Specify a unique Key Vault name for keyvault\_name as follows:

```
keyvault_name=myvaultname$RANDOM az keyvault create \
--name $keyvault_name \
--resource-group $resourcegroup \
--location eastus \
--enabled-for-disk-encryption True
```

Box 2: keyvault key

The Azure platform needs to be granted access to request the cryptographic keys when the VM boots to decrypt the virtual disks. Create a cryptographic key in your Key Vault with az keyvault key create. The following example creates a key named myKey:

```
az keyvault key create \
--vault-name $keyvault_name \
--name myKey \
--protection software
```

Box 3: vm

Create a VM with az vm create. Only certain marketplace images support disk encryption. The following example creates a VM named myVM using an Ubuntu 16.04 LTS image:

```
az vm create \
--resource-group $resourcegroup \
--name myVM \
--image Canonical:UbuntuServer:16.04-LTS:latest \
--admin-username azureuser \
--generate-ssh-keys \
```

Box 4: vm encryption

Encrypt your VM with az vm encryption enable:

```
az vm encryption enable \
--resource-group $resourcegroup \
--name myVM \
--disk-encryption-keyvault $keyvault_name \
--key-encryption-key myKey \
--volume-type all
```

Note: seems to an error in the question. Should have enable instead of create. Box 5: all  
 Encrypt both data and operating system.

References:

<https://docs.microsoft.com/bs-latn-ba/azure/virtual-machines/linux/encrypt-disks>

### NEW QUESTION 161

DRAG DROP - (Topic 8)



You are developing a Docker/Go using Azure App Service Web App for Containers. You plan to run the container in an App Service on Linux. You identify a Docker container image to use.

None of your current resource groups reside in a location that supports Linux. You must minimize the number of resource groups required.

You need to create the application and perform an initial deployment.

Which three Azure CLI commands should you use to develop the solution? To answer, move the appropriate commands from the list of commands to the answer area and arrange them in the correct order.

Azure CLI Commands

az group create

az group update

az webapp update

az webapp create

az appservice plan create

Answer Area

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- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

You can host native Linux applications in the cloud by using Azure Web Apps. To create a Web App for Containers, you must run Azure CLI commands that create a group, then a service plan, and finally the web app itself.

Step 1: az group create

In the Cloud Shell, create a resource group with the az group create command.

Step 2: az appservice plan create

In the Cloud Shell, create an App Service plan in the resource group with the az appservice plan create command.

Step 3: az webapp create

In the Cloud Shell, create a web app in the myAppServicePlan App Service plan with the az webapp create command. Don't forget to replace with a unique app name, and <docker- ID> with your Docker ID.

References:

<https://docs.microsoft.com/mt-mt/azure/app-service/containers/quickstart-docker-go?view=sql-server-ver15>

NEW QUESTION 165

DRAG DROP - (Topic 8)

You have an application that provides weather forecasting data to external partners. You use Azure API Management to publish APIs.

You must change the behavior of the API to meet the following requirements:

- Support alternative input parameters.
- Remove formatting text from responses.
- Provide additional context to back-end services.

Which types of policies should you implement? To answer, drag the policy types to the correct scenarios. Each policy type 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.

Policy types

Inbound

Outbound

Backend

Answer Area

Requirement

Rewrite the request URL to match to the format expected by the web service.

Remove formatting text from responses.

Forward the user ID that is associated with the subscription key for the original request to the back-end service.

Policy type

policy type

policy type

policy type

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Policy types

Inbound

Outbound

Backend

Answer Area

Requirement

Rewrite the request URL to match to the format expected by the web service.

Remove formatting text from responses.

Forward the user ID that is associated with the subscription key for the original request to the back-end service.

Policy type

Outbound

Inbound

Backend

### NEW QUESTION 167

- (Topic 8)

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 are developing a website that will run as an Azure Web App. Users will authenticate by using their Azure Active Directory (Azure AD) credentials.

You plan to assign users one of the following permission levels for the website: admin, normal, and reader. A user's Azure AD group membership must be used to determine the permission level.

You need to configure authorization. Solution:

? Create a new Azure AD application. In the application's manifest, define application roles that match the required permission levels for the application.

? Assign the appropriate Azure AD group to each role. In the website, use the value

of the roles claim from the JWT for the user to determine permissions. Does the solution meet the goal?

A. Yes

B. No

**Answer: B**

#### Explanation:

To configure Manifest to include Group Claims in Auth Token

? Go to Azure Active Directory to configure the Manifest. Click on Azure Active Directory, and go to App registrations to find your application:

? Click on your application (or search for it if you have a lot of apps) and edit the Manifest by clicking on it.

? Locate the "groupMembershipClaims" setting. Set its value to either "SecurityGroup" or "All". To help you decide which:

? "SecurityGroup" - groups claim will contain the identifiers of all security groups of which the user is a member.

? "All" - groups claim will contain the identifiers of all security groups and all distribution lists of which the user is a member

Now your application will include group claims in your manifest and you can use this fact in your code.

Reference:

<https://blogs.msdn.microsoft.com/waws/2017/03/13/azure-app-service-authentication-aad-groups/>

### NEW QUESTION 171

DRAG DROP - (Topic 8)

A company has multiple warehouse. Each warehouse contains IoT temperature devices which deliver temperature data to an Azure Service Bus queue.

You need to send email alerts to facility supervisors immediately if the temperature at a warehouse goes above or below specified threshold temperatures.

Which five actions should you perform in sequence? To answer, move the appropriate actions from the list of actions to the answer area and arrange them in the correct order.

Actions	Answer Area
Add a logic app trigger that fires when one or more messages arrive in the queue.	
Add a Recurrence trigger that schedules the app to run every 15 minutes.	
Add an action that sends an email to specified personnel if the temperature is outside of those thresholds.	
Add a trigger that reads IoT temperature data from a Service Bus queue.	
Add a logic app action that fires when one or more messages arrive in the queue.	
Add a condition that compares the temperature against the upper and lower thresholds.	
Create a blank Logic app.	
Add an action that reads IoT temperature data from the Service Bus queue.	

A. Mastered

B. Not Mastered

**Answer: A**

#### Explanation:

Step 1: Create a blank Logic app. Create and configure a Logic App.

Step 2: Add a logical app trigger that fires when one or more messages arrive in the queue. Configure the logic app trigger.

Under Triggers, select When one or more messages arrive in a queue (auto-complete). Step 3: Add an action that reads IoT temperature data from the Service Bus queue

Step 4: Add a condition that compares the temperature against the upper and lower thresholds.

Step 5: Add an action that sends an email to specified personnel if the temperature is outside of those thresholds

### NEW QUESTION 174

- (Topic 8)

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 are developing an Azure Service application that processes queue data when it receives a message from a mobile application. Messages may not be sent to the service consistently.

You have the following requirements:

? Queue size must not grow larger than 80 gigabytes (GB).

? Use first-in-first-out (FIFO) ordering of messages.

? Minimize Azure costs.

You need to implement the messaging solution.

Solution: Use the .Net API to add a message to an Azure Storage Queue from the mobile application. Create an Azure VM that is triggered from Azure Storage Queue events.

Does the solution meet the goal?

A. Yes

B. No

**Answer: B**

**Explanation:**

Don't use a VM, instead create an Azure Function App that uses an Azure Service Bus Queue trigger.

Reference:

<https://docs.microsoft.com/en-us/azure/azure-functions/functions-create-storage-queue-triggered-function>

**NEW QUESTION 176**

- (Topic 8)

You develop and deploy a Java RESTful API to Azure App Service.

You open a browser and navigate to the URL for the API. You receive the following error message:

```
Failed to load http://api.azurewebsites.net:6000/#/api/Products: No 'Access-Control-Allow-Origin' header is present on the requested resource.
Origin 'http://localhost:6000' is therefore not allowed access
```

You need to resolve the error. What should you do?

A. Bind an SSL certificate

B. Enable authentication

C. Enable CORS

D. Map a custom domain

E. Add a CDN

**Answer: C**

**Explanation:**

We need to enable Cross-Origin Resource Sharing (CORS).

References:

<https://medium.com/@xinganwang/a-practical-guide-to-cors-51e8fd329a1f>

**NEW QUESTION 180**

- (Topic 8)

You develop and deploy an Azure Logic app that calls an Azure Function app. The Azure Function app includes an OpenAPI (Swagger) definition and uses an Azure Blob storage account. All resources are secured by using Azure Active Directory (Azure AD).

The Azure Logic app must securely access the Azure Blob storage account. Azure AD resources must remain if the Azure Logic app is deleted.

You need to secure the Azure Logic app. What should you do?

A. Create an Azure AD custom role and assign role-based access controls.

B. Create an Azure AD custom role and assign the role to the Azure Blob storage account.

C. Create an Azure Key Vault and issue a client certificate.

D. Create a user-assigned managed identity and assign role-based access controls.

E. Create a system-assigned managed identity and issue a client certificate.

**Answer: D**

**Explanation:**

To give a managed identity access to an Azure resource, you need to add a role to the target resource for that identity.

Note: To easily authenticate access to other resources that are protected by Azure Active Directory (Azure AD) without having to sign in and provide credentials or secrets, your logic app can use a managed identity (formerly known as Managed Service Identity or MSI). Azure manages this identity for you and helps secure your credentials because you don't have to provide or rotate secrets.

If you set up your logic app to use the system-assigned identity or a manually created, user-assigned identity, the function in your logic app can also use that same identity for authentication.

Reference:

<https://docs.microsoft.com/en-us/azure/logic-apps/create-managed-service-identity>

<https://docs.microsoft.com/en-us/azure/api-management/api-management-howto-mutual-certificates-for-clients>

**NEW QUESTION 183**

DRAG DROP - (Topic 8)

You are developing an ASP.NET Core Web API web service that uses Azure Application Insights to monitor performance and track events.

You need to enable logging and ensure that log messages can be correlated to events tracked by Application Insights.

How should you complete the code? To answer, drag the appropriate code segments to the correct locations. Each code segment 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.



Code segments	Answer Area
IncludeEventId	<pre>public class Startup {     ...     public void ConfigureServices (IServiceCollection services)     {         services.AddOptions&lt; &gt;().         Configure(o =&gt; o. &lt; &gt; = true );         services.AddMvc();     }     public void Configure (IApplicationBuilder app,         IHostingEnvironment env, ILoggerFactory loggerFactory)     {         loggerFactory.AddApplicationInsights(app, &lt; &gt;, LogLevel.Trace);         app.UseMvc();     } }</pre>
ServerFeatures	
LoggerFilterOptions	
ApplicationServices	
ApplicationInsightsLoggerOptions	
TrackExceptionsAsExceptionTelemetry	

- A. Mastered  
B. Not Mastered

Answer: A

**Explanation:**

Box 1: ApplicationInsightsLoggerOptions

If you want to include the EventId and EventName properties, then add the following to the ConfigureServices method:

services.AddOptions<ApplicationInsightsLoggerOptions>() Configure(o => o.IncludeEventId = true);

Box 2: IncludeEventId

Box 3: ApplicationServices

In Asp.Net core apps it turns out that trace logs do not show up in Application Insights out of the box. We need to add the following code snippet to our Configure method in Startup.cs:

loggerFactory.AddApplicationInsights(app.ApplicationServices, logLevel);

References:  
<https://blog.computedcloud.com/enabling-application-insights-trace-logging-in-asp-net-core/>

**NEW QUESTION 185**

- (Topic 8)

You are building a web application that performs image analysis on user photos and returns metadata containing objects identified. The image analysis is very costly in terms of time and compute resources. You are planning to use Azure Redis Cache so Cache uploads do not need to be reprocessed.

In case of an Azure data center outage metadata loss must be kept to a minimum. You need to configure the Azure Redis cache instance.

Which two actions should you perform? Each correct answer presents part of the solution. NOTE: Each correct selection is worth one point.

- A. Configure Azure Redis with persistence  
B. Configure second storage account for persistence  
C. Set backup frequency to the minimum value  
D. Configure Azure Redis with RDS persistence

Answer: AC

**NEW QUESTION 190**

HOTSPOT - (Topic 8)

You have an App Service plan named aspl based on the Free pricing tier.

You plan to use aspl to implement an Azure Function app with a queue trigger. Your solution must minimize cost.

You need to identify the configuration options that will meet the requirements.

Which value should you configure? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

**Answer Area**

Configuration option	Value
Azure App Service feature	<div>Managed identity Always On Managed identity Continuous deployment</div>
Azure App Service pricing tier	<div>Basic Basic Shared Standard</div>

- A. Mastered  
B. Not Mastered

Answer: A

**Explanation:**



- (Topic 8)

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 ensure that scripts run and resources are available before a swap operation occurs.

Solution: Enable auto swap for the Testing slot. Deploy the app to the Testing slot. Does the solution meet the goal?

- A. Yes  
B. No

**Explanation:**

Note: Some apps might require custom warm-up actions before the swap. The `applicationInitialization` configuration element in `web.config` lets you specify custom initialization actions. The swap operation waits for this custom warm-up to finish before swapping with the target slot. Here's a sample `web.config` fragment.

```
<system.webServer>
<applicationInitialization>
<add initializationPage="/" hostname="[app hostname]" />
<add initializationPage="/Home/About" hostname="[app hostname]" />
</applicationInitialization>
</system.webServer>
```

Reference:

<https://docs.microsoft.com/en-us/azure/app-service/deploy-staging-slots#troubleshoot-swaps>

## HOTSPOT - (Topic 8)

How should you complete the Azure Resource Manager template? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

```

"conditions": [ {
  "name": "IsDevice",
  "parameters": {
    "@odata.type": "#Microsoft.Azure.Cdn.Models.
    "operator": "Equal"
    "matchValues": [ "
      iOS
      Mobile
      iPhone
      Desktop
    ],
    {
      "name": "RequestHeader",
      "parameters": {
        "@odata.type": "#Microsoft.Azure.Cdn.Models.
        "operator": "Contains",
        "selector": "
          FROM
          PRAGMA
          X-POWERED-BY
          HTTP_USER_AGENT
        ",
        "matchValues": [ "
          iOS
          Mobile
          iPhone
          Desktop
        ]
      }
    }
  ]
}

```

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

Box 1: iOS

Azure AD Conditional Access supports the following device platforms:

- ? Android
- ? iOS
- ? Windows Phone
- ? Windows
- ? macOS

Box 2: DeliveryRuleIsDeviceConditionParameters

The DeliveryRuleIsDeviceCondition defines the IsDevice condition for the delivery rule. parameters defines the parameters for the condition.

Box 3: HTTP\_USER\_AGENT

Box 4: DeliveryRuleRequestHeaderConditionParameters DeliveryRuleRequestHeaderCondition defines the RequestHeader condition for the delivery rule. parameters defines the parameters for the condition.

Box 5: iOS

The Require approved client app requirement only supports the iOS and Android for device platform condition.

**NEW QUESTION 203**

- (Topic 8)

You are developing a web application that uses the Microsoft identity platform to authenticate users and resources. The web application calls several REST APIs. The APIs require an access token from the Microsoft identity platform. You need to request a token.

Which three properties should you use? Each correct answer presents part of the solution. NOTE: Each correct selection is worth one point.

- A. Application secret
- B. Redirect URI/URL
- C. Application name
- D. Supported account type
- E. Application ID

**Answer:** ABE

**NEW QUESTION 205**

DRAG DROP - (Topic 8)

You develop a gateway solution for a public facing news API.

The news API back end is implemented as a RESTful service and hosted in an Azure App Service instance.

You need to configure back-end authentication for the API Management service instance. Which target and gateway credential type should you use? To answer, drag the appropriate

values to the correct parameters. Each value 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.

	Configuration parameter	Value
<input type="text" value="Azure Resource"/>	Target	<input type="text" value="value"/>
<input type="text" value="HTTP(s) endpoint"/>	Gateway credentials	<input type="text" value="value"/>
<input type="text" value="Basic"/>		
<input type="text" value="Client cert"/>		

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

Box 1: Azure Resource Box 2: Client cert

API Management allows to secure access to the back-end service of an API using client certificates.

References:

<https://docs.microsoft.com/en-us/rest/api/apimanagement/apimanagementrest/azure-api-management-rest-api-backend-entity>

**NEW QUESTION 207**

- (Topic 8)

You are developing an Azure Function App that processes images that are uploaded to an Azure Blob container.

Images must be processed as quickly as possible after they are uploaded, and the solution must minimize latency. You create code to process images when the Function App is triggered.

You need to configure the Function App. What should you do?

- A. Use an App Service plan
- B. Configure the Function App to use an Azure Blob Storage input trigger.
- C. Use a Consumption plan
- D. Configure the Function App to use an Azure Blob Storage trigger.
- E. Use a Consumption plan
- F. Configure the Function App to use a Timer trigger.
- G. Use an App Service plan
- H. Configure the Function App to use an Azure Blob Storage trigger.
- I. Use a Consumption plan
- J. Configure the Function App to use an Azure Blob Storage input trigger.

**Answer:** B

**Explanation:**

The Blob storage trigger starts a function when a new or updated blob is detected. The blob contents are provided as input to the function.

The Consumption plan limits a function app on one virtual machine (VM) to 1.5 GB of memory.

Reference:

<https://docs.microsoft.com/en-us/azure/azure-functions/functions-bindings-storage-blob-trigger>

**NEW QUESTION 209**

HOTSPOT - (Topic 8)

You are creating an app that uses Event Grid to connect with other services. Your app's event data will be sent to a serverless function that checks compliance.

This function is maintained by your company.

You write a new event subscription at the scope of your resource. The event must be invalidated after 3 specific period of time. You need to configure Event Grid to ensure security.

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

Authentication	Type
WebHook event delivery	<div><div>SAS tokens</div><div>Key authentication</div><div>JWT token</div></div>
Topic publishing	<div><div>ValidationCode handshake</div><div>ValidationURL handshake</div><div>Management Access Control</div></div>

A. Mastered

B. Not Mastered

**Answer:** A

**Explanation:**

Box 1: SAS tokens

Custom topics use either Shared Access Signature (SAS) or key authentication. Microsoft recommends SAS, but key authentication provides simple programming, and is compatible with many existing webhook publishers.

In this case we need the expiration time provided by SAS tokens.

Box 2: ValidationCode handshake

Event Grid supports two ways of validating the subscription: ValidationCode handshake (programmatic) and ValidationURL handshake (manual).

If you control the source code for your endpoint, this method is recommended.

**NEW QUESTION 210**

- (Topic 8)

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

You are developing a website that will run as an Azure Web App. Users will authenticate by using their Azure Active Directory (Azure AD) credentials.

You plan to assign users one of the following permission levels for the website: admin,

normal, and reader. A user's Azure AD group membership must be used to determine the permission level. You need to configure authorization.

Solution: Configure the Azure Web App for the website to allow only authenticated requests and require Azure AD log on.

Does the solution meet the goal?

A. Yes

B. No

**Answer:** B

**Explanation:**

Instead in the Azure AD application's manifest, set value of the groupMembershipClaims option to All.

References:

<https://blogs.msdn.microsoft.com/waws/2017/03/13/azure-app-service-authentication-aad-groups/>

**NEW QUESTION 211**

HOTSPOT - (Topic 8)

You create the following PowerShell script:



```
$source = New-AzScheduledQueryRuleSource -Query 'Heartbeat | where TimeGenerated > ago(1h)' -DataSourceId "contoso"
$schedule = New-AzScheduledQueryRuleSchedule -FrequencyInMinutes 60 -TimeWindowInMinutes 60
$triggerCondition = New-AzScheduledQueryRuleTriggerCondition -ThresholdOperator "LessThan" -Threshold 5
$aznsActionGroup = New-AzScheduledQueryRuleAznsActionGroup -ActionGroup "contoso" -EmailSubject "Custom email subject"
                  -CustomWebhookPayload "{ 'alert':'#alertrulename', 'IncludeSearchResults':true }"
$alertingAction = New-AzScheduledQueryRuleAlertingAction -AznsAction $aznsActionGroup -Severity "3" -Trigger $triggerCondition
New-AzScheduledQueryRule -ResourceGroupName "contoso" -Location "eastus" -Action $alertingAction -Enabled $true
                        -Description "Alert description" -Schedule $schedule -Source $source -Name "Alert Name"
```

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
A log alert is created that sends an email when the CPU percentage is above 60 percent for five minutes.	<input type="radio"/>	<input type="radio"/>
A log alert is created that sends an email when the number of virtual machine heartbeats in the past hour is less than five.	<input type="radio"/>	<input type="radio"/>
The log alert is scheduled to run every two hours.	<input type="radio"/>	<input type="radio"/>

- A. Mastered  
B. Not Mastered

**Answer:** A

**Explanation:**

Box 1: No

The AzScheduledQueryRuleSource is Heartbeat, not CPU.

Box 2: Yes

The AzScheduledQueryRuleSource is Heartbeat!

Note: New-AzScheduledQueryRuleTriggerCondition creates an object of type Trigger Condition. This object is to be passed to the command that creates Alerting Action object.

Box 3: No

The schedule is 60 minutes, not two hours.

-FrequencyInMinutes: The alert frequency.

-TimeWindowInMinutes: The alert time window

The New-AzAscheduledQueryRuleSchedule command creates an object of type Schedule. This object is to be passed to the command that creates Log Alert Rule.

#### NEW QUESTION 214

- (Topic 8)

A company is developing a solution that allows smart refrigerators to send temperature information to a central location. You have an existing Service Bus.

The solution must receive and store messages until they can be processed. You create an Azure Service Bus instance by providing a name, pricing tier, subscription, resource group, and location.

You need to complete the configuration.

Which Azure CLI or PowerShell command should you run?

- A. **az servicebus namespace create**  
    **- -resource-group fridge-rg**  
    **- -name fridge-ns**  
    **- -location fridge-loc**
- B. **az servicebus queue create**  
    **--resource-group fridge-rg**  
    **--namespace-name fridge-ns**  
    **--name fridge-q**
- C. **connectionString=\$(az servicebus namespace authorization-rule keys list**  
    **--resource-group fridge-rg**  
    **--fridge-ns fridge-ns**  
    **--name RootManageSharedAccessKey**  
    **--query primaryConnectionString --output tsv)**
- D. **az group create**  
    **--name fridge-rg**  
    **--location fridge-log**

- A. Option A  
B. Option B  
C. Option C  
D. Option D

**Answer:** B



#### Explanation:

A service bus instance has already been created (Step 2 below). Next is step 3, Create a Service Bus queue.

Note:

Steps:

Step 1: # Create a resource group resourceGroupName="myResourceGroup"

az group create --name \$resourceGroupName --location eastus

Step 2: # Create a Service Bus messaging namespace with a unique name namespaceName=myNameSpace\$RANDOM

az servicebus namespace create --resource-group \$resourceGroupName --name

\$namespaceName --location eastus

Step 3: # Create a Service Bus queue

az servicebus queue create --resource-group \$resourceGroupName --namespace-name

\$namespaceName --name BasicQueue

Step 4: # Get the connection string for the namespace

connectionString=\$(az servicebus namespace authorization-rule keys list --resource-group

\$resourceGroupName --namespace-name \$namespaceName --name RootManageSharedAccessKey --query primaryConnectionString --output tsv)

References:

<https://docs.microsoft.com/en-us/azure/service-bus-messaging/service-bus-quickstart-cli>

#### NEW QUESTION 218

HOTSPOT - (Topic 8)

You are developing a web application that uses the Microsoft identify platform for user and resource authentication. The web application calls several REST APIs.

You are implementing various authentication and authorization flows for the web application.

You need to validate the claims in the authentication token.

Which token type should use? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Answer Area

Requirement	Token type
Identify users for the application by using a JWT token that contains claims.	<div><div></div><div>Access</div><div>ID</div><div>Refresh</div><div>SAML</div></div>
Provide XML representations of claims that can be consumed by applications that use WS-Federation.	<div><div>Access</div><div></div></div>
Provide the web application with long-term access to resources on behalf of users without requiring interaction with those users.	<div><div></div><div>Access</div><div>ID</div><div>Refresh</div><div>SAML</div></div>
Provide XML representations of claims that can be consumed by applications that use WS-Federation.	<div><div></div><div>Access</div><div>ID</div><div>Refresh</div><div>SAML</div></div>

- A. Mastered
- B. Not Mastered

Answer: A

#### Explanation:

Answer Area

Requirement	Token type
Identify users for the application by using a JWT token that contains claims.	<div><div></div><div>Access</div><div>ID</div><div>Refresh</div><div>SAML</div></div>
Provide XML representations of claims that can be consumed by applications that use WS-Federation.	<div><div>Access</div><div></div></div>
Provide the web application with long-term access to resources on behalf of users without requiring interaction with those users.	<div><div></div><div>Access</div><div>ID</div><div>Refresh</div><div>SAML</div></div>
Provide XML representations of claims that can be consumed by applications that use WS-Federation.	<div><div></div><div>Access</div><div>ID</div><div>Refresh</div><div>SAML</div></div>

#### NEW QUESTION 222

- (Topic 8)

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 develop and deploy an Azure App Service API app to a Windows-hosted deployment slot named Development. You create additional deployment slots named Testing and Production. You enable auto swap on the Production deployment slot. You need to ensure that scripts run and resources are available before a swap operation occurs. Solution: Disable auto swap. Update the app with a method named statuscheck to run the scripts. Re-enable auto swap and deploy the app to the Production slot. Does the solution meet the goal?

- A. Yes
- B. No

**Answer: B**

**Explanation:**

Instead update the web.config file to include the applicationInitialization configuration element. Specify custom initialization actions to run the scripts.

Note: Some apps might require custom warm-up actions before the swap. The applicationInitialization configuration element in web.config lets you specify custom initialization actions. The swap operation waits for this custom warm-up to finish before swapping with the target slot. Here's a sample web.config fragment.

```
<system.webServer>
<applicationInitialization>
<add initializationPage="/" hostname="[app hostname]" />
<add initializationPage="/Home/About" hostname="[app hostname]" />
</applicationInitialization>
</system.webServer>
```

Reference:

<https://docs.microsoft.com/en-us/azure/app-service/deploy-staging-slots#troubleshoot-swaps>

**NEW QUESTION 225**

DRAG DROP - (Topic 8)

You are developing an Azure solution.

You need to develop code to access a secret stored in Azure Key Vault.

How should you complete the code segment? To answer, drag the appropriate code segments to the correct locations. Each code segment 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.

Code segments	Answer Area
DefaultAzureCredential	string var1 = Environment.GetEnvironmentVariable("KEY_VAULT_URI");
ClientSecretCredential	var var2 = new Code segment ( new Uri(var1), new Code segment ());
CloudClients	
SecretClient	

- A. Mastered
- B. Not Mastered

**Answer: A**

**Explanation:**

Box 1: SecretClient

Box 2: DefaultAzureCredential

In below example, the name of your key vault is expanded to the key vault URI, in the format "https://<your-key-vault-name>.vault.azure.net". This example is using 'DefaultAzureCredential()' class from Azure Identity Library, which allows to use the same code across different environments with different options to provide identity.

```
string keyVaultName = Environment.GetEnvironmentVariable("KEY_VAULT_NAME"); var kvUri = "https://" + keyVaultName + ".vault.azure.net";
var client = new SecretClient(new Uri(kvUri), new DefaultAzureCredential());
```

**NEW QUESTION 227**

- (Topic 8)

You are developing an Azure App Service REST API.

The API must be called by an Azure App Service web app. The API must retrieve and update user profile information stored in Azure Active Directory (Azure AD).

You need to configure the API to make the updates.

Which two tools should you use? Each correct answer presents part of the solution. NOTE: Each correct selection is worth one point.

- A. Microsoft Graph API
- B. Microsoft Authentication Library (MSAL)
- C. Azure API Management
- D. Microsoft Azure Security Center
- E. Microsoft Azure Key Vault SDK

**Answer: AC**

**Explanation:**

A: You can use the Azure AD REST APIs in Microsoft Graph to create unique workflows between Azure AD resources and third-party services.

Enterprise developers use Microsoft Graph to integrate Azure AD identity management and other services to automate administrative workflows, such as employee onboarding (and termination), profile maintenance, license deployment, and more.

C: API Management (APIM) is a way to create consistent and modern API gateways for existing back-end services.

API Management helps organizations publish APIs to external, partner, and internal developers to unlock the potential of their data and services.

Reference:

<https://docs.microsoft.com/en-us/graph/azuread-identity-access-management-concept-overview>

### NEW QUESTION 229

- (Topic 8)

You develop a solution that uses Azure Virtual Machines (VMs).

The VMs contain code that must access resources in an Azure resource group. You grant the VM access to the resource group in Resource Manager.

You need to obtain an access token that uses the VMs system-assigned managed identity. Which two actions should you perform? Each correct answer presents part of the solution.

- A. Use PowerShell on a remote machine to make a request to the local managed identity for Azure resources endpoint.
- B. Use PowerShell on the VM to make a request to the local managed identity for Azure resources endpoint.
- C. From the code on the V
- D. call Azure Resource Manager using an access token.
- E. From the code on the V
- F. call Azure Resource Manager using a SAS token.
- G. From the code on the V
- H. generate a user delegation SAS token.

**Answer:** BC

### NEW QUESTION 233

- (Topic 8)

You develop and deploy an ASP.NET Core application that connects o an Azure Database for MySQL instance.

Connections to the database appear to drop intermittently and the application code does not handle the connection failure.

You need to handle the transient connection errors in code by implementing retries. What are three possible ways to achieve this goal? Each correct answer presents part of the solution.

NOTE: Each correct selection is worth one point.

- A. Increase connection repeat attempts exponentially up to 120 seconds.
- B. Close the database connection and immediately report an error.
- C. Wait five seconds before repeating the connection attempt to the database.
- D. Disable connection pooling and configure a second Azure Database for MySQL instance.
- E. Set a maximum number of connection attempts to 10 and report an error on subsequent connections.

**Answer:** BCE

### NEW QUESTION 234

HOTSPOT - (Topic 8)

A company is developing a Node.js web app. The web app code is hosted in a GitHub repository located at <https://github.com/TailSpinToys/weapp>.

The web app must be reviewed before it is moved to production. You must deploy the initial

code release to a deployment slot named review. You need to create the web app and deploy the code.

How should you complete the commands? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

```
$gitrepo="https://github.com/TailSpinToys/webapp"
$webappname="TailSpinToysWeb"
$location="WestUS2"

New-AzWebAppSlot -Name myResourceGroup -Location $location
New-AzWebApp
New-AzAppServicePlan
New-AzResourceGroup

New-AzWebAppSlot -Name $webappname -Location $location -ResourceGroupName myResourceGroup -Tier Standard
New-AzWebApp
New-AzAppServicePlan
New-AzResourceGroup

New-AzWebAppSlot -Name $webappname -Location $location -AppServicePlan $webappname -ResourceGroupName myResourceGroup
New-AzWebApp
New-AzAppServicePlan
New-AzResourceGroup

New-AzWebAppSlot -Name $webappname -ResourceGroupName myResourceGroup -Slot review
New-AzWebApp
New-AzAppServicePlan
New-AzResourceGroup

$PropertiesObject = @{repoUrl = "$gitrepo";branch = "master";}
Set-AzResource -PropertyObject $PropertiesObject -ResourceGroupName myResourceGroup -ResourceType
Microsoft.Web/sites/slots/sourcecontrols -ResourceName $webappname/review/web -ApiVersion 2015-08-01 -Force
Switch-AzWebAppSlot -Name $webappname -ResourceGroupName myResourceGroup `
-SourceSlotName review -DestinationSlotName production
```

- A. Mastered
- B. Not Mastered

**Answer:** A

#### Explanation:

The New-AzResourceGroup cmdlet creates an Azure resource group.

The New-AzAppServicePlan cmdlet creates an Azure App Service plan in a given location The New-AzWebApp cmdlet creates an Azure Web App in a given a resource group

The New-AzWebAppSlot cmdlet creates an Azure Web App slot.

References:

<https://docs.microsoft.com/en-us/powershell/module/az.resources/new-azresourcegroup?view=azps-2.3.2>

<https://docs.microsoft.com/en-us/powershell/module/az.websites/new-azappserviceplan?view=azps-2.3.2>

<https://docs.microsoft.com/en-us/powershell/module/az.websites/new-azwebapp?view=azps-2.3.2>

<https://docs.microsoft.com/en-us/powershell/module/az.websites/new-azwebappslot?view=azps-2.3.2>

### NEW QUESTION 239

- (Topic 8)

You develop an app that allows users to upload photos and videos to Azure storage. The app uses a storage REST API call to upload the media to a blob storage account named Account1. You have blob storage containers named Container1 and Container2. Uploading of videos occurs on an irregular basis. You need to copy specific blobs from Container1 to Container2 in real time when specific requirements are met, excluding backup blob copies. What should you do?

- A. Download the blob to a virtual machine and then upload the blob to Container2.
- B. Run the Azure PowerShell command Start-AzureStorageBlobCopy.
- C. Copy blobs to Container2 by using the Put Blob operation of the Blob Service REST API.
- D. Use AzCopy with the Snapshot switch blobs to Container2.

**Answer:** B

**Explanation:**

The Start-AzureStorageBlobCopy cmdlet starts to copy a blob. Example 1: Copy a named blob

```
C:\PS>Start-AzureStorageBlobCopy -SrcBlob "ContosoPlanning2015" -DestContainer "ContosoArchives" -SrcContainer "ContosoUploads"
```

This command starts the copy operation of the blob named ContosoPlanning2015 from the container named ContosoUploads to the container named ContosoArchives.

References:

<https://docs.microsoft.com/en-us/powershell/module/azure.storage/start-azurestorageblobcopy?view=azurermps-6.13.0>

**NEW QUESTION 241**

- (Topic 8)

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.

Margie's Travel is an international travel and bookings management service. The company is expanding into restaurant bookings. You are tasked with implementing Azure Search for the restaurants listed in their solution.

You create the index in Azure Search.

You need to import the restaurant data into the Azure Search service by using the Azure Search NET SDK.

Solution:

- \* 1. Create a SearchServiceClient object to connect to the search index.
- \* 2. Create a DataContainer that contains the documents which must be added.
- \* 3. Create a DataSource instance and set its Container property to the DataContainer.
- \* 4. Set the DataSource property of the SearchServiceClient

Does the solution meet the goal?

- A. Yes
- B. No

**Answer:** B

**Explanation:**

Use the following method:

- \* 1.Create a SearchIndexClient object to connect to the search index
- \* 2.Create an IndexBatch that contains the documents which must be added.
- \* 3.Call the Documents.Index method of the SearchIndexClient and pass the IndexBatch.

References:

<https://docs.microsoft.com/en-us/azure/search/search-howto-dotnet-sdk>

**NEW QUESTION 244**

HOTSPOT - (Topic 8)

You are developing a solution that uses several Azure Service Bus queues. You create an Azure Event Grid subscription for the Azure Service Bus namespace.

You use Azure Functions as subscribers to process the messages.

You need to emit events to Azure Event Grid from the queues. You must use principal of least privilege and minimize costs.

Which Azure Service Bus values should you use? TO answer, select the appropriate options in the answer area

Each correct selection is worth ore point

Configuration	Value
Tier	<div><div></div><div>Basic</div><div>Standard</div><div>Premium</div></div>
Access control (IAM) level	<div><div></div><div>Contributor</div><div>Data Receiver</div><div>Data Sender</div><div>Data Owner</div></div>

- A. Mastered
- B. Not Mastered



Answer: A

Explanation:

Configuration	Value
Tier	<div><div></div><div>Basic</div><div>Standard</div><div>Premium</div></div>
Access control (IAM) level	<div><div></div><div>Contributor</div><div>Data Receiver</div><div>Data Sender</div><div>Data Owner</div></div>

NEW QUESTION 247

DRAG DROP - (Topic 8)

You develop a web app that uses tier D1 app service plan by using the Web Apps feature of Microsoft Azure App Service.

Spikes in traffic have caused increases in page load times.

You need to ensure that the web app automatically scales when CPU load is about 85 percent and minimize costs.

Which four actions should you perform in sequence? To answer, move the appropriate actions from the list of actions to the answer area and arrange them in the correct order.

NOTE:More than one order of answer choices is correct. You will receive credit for any of the correct orders you select.

Actions

Configure the web app to the Premium App Service tier.

Configure the web app to the Standard App Service tier.

Enable autoscaling on the web-app.

Add a Scale rule.

Switch to an Azure App Services consumption plan.

Configure a Scale condition.

Answer Area

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

- Step 1: Configure the web app to the Standard App Service Tier  
The Standard tier supports auto-scaling, and we should minimize the cost.
- Step 2: Enable autoscaling on the web app  
First enable autoscale
- Step 3: Add a scale rule
- Step 4: Add a Scale condition

NEW QUESTION 249

HOTSPOT - (Topic 8)

You are developing an ASP.NET Core app that includes feature flags which are managed by Azure App Configuration. You create an Azure App Configuration store named AppFeatureFlagStorethat contains a feature flag named Export.

You need to update the app to meet the following requirements:

- ? Use the Export feature in the app without requiring a restart of the app.
- ? Validate users before users are allowed access to secure resources.
- ? Permit users to access secure resources.

How should you complete the code segment? To answer, select the appropriate options in the answer area.

NOTE:Each correct selection is worth one point.

Answer Area

```
public void Configure(IApplicationBuilder app, IWebHostEnvironment env)
{
    if (env.IsDevelopment())
    {
        app.UseDeveloperExceptionPage();
    }
    else
    {
        app.UseExceptionHandler("/Error");
    }

    app. [dropdown] ();
    UseAuthentication
    UseStaticFiles
    UseSession
    UseCookiePolicy

    app. [dropdown] ();
    UseAuthorization
    UseHttpsRedirection
    UseSession
    UseCookiePolicy

    app. [dropdown] ();
    UseAzureAppConfiguration
    UseRequestLocalization
    UseCors
    UseStaticFiles

    app.UseEndpoint(endpoints =>
    {
        endpoints.MapRazorPages();
    });
}
```

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Box 1: UseAuthentication  
Need to validate users before users are allowed access to secure resources.  
UseAuthentication adds the AuthenticationMiddleware to the specified IApplicationBuilder, which enables authentication capabilities.

Box 2: UseAuthorization  
Need to permit users to access secure resources.  
UseAuthorization adds the AuthorizationMiddleware to the specified IApplicationBuilder, which enables authorization capabilities.

Box 3: UseStaticFiles  
Need to use the Export feature in the app without requiring a restart of the app. UseStaticFiles enables static file serving for the current request path

NEW QUESTION 252

DRAG DROP - (Topic 8)  
You are developing several microservices named serviceA. serviceB, and serviceC. You deploy the microservices to a new Azure Container Apps environment. You have the following requirements.

- The microservices must persist data to storage.
- serviceA must persist data only visible to the current container and the storage must be restricted to the amount of disk space available in the container
- servtceB must persist data for the lifetime of the replica and allow multiple containers in the replica to mount the same storage location.
- serviceC must persist data beyond the lifetime of the replica while allowing multiple containers to access the storage and enable per object permissions.

You need to configure storage for each microservice.

Storage types

Azure Blob Storage

Azure Files storage

Ephemeral volume

Container file system

Answer Area

Microservice	Storage type
serviceA	
serviceB	
serviceC	

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Storage types

Azure Blob Storage

Azure Files storage

Ephemeral volume

Container file system

Answer Area

Microservice

serviceA

serviceB

serviceC

Storage type

Ephemeral volume

Container file system

Azure Files storage

NEW QUESTION 253

DRAG DROP - (Topic 8)

You are developing an ASP.NET Core website that can be used to manage photographs which are stored in Azure Blob Storage containers. Users of the website authenticate by using their Azure Active Directory (Azure AD) credentials. You implement role-based access control (RBAC) role permission on the containers that store photographs. You assign users to RBAC role. You need to configure the website's Azure AD Application so that user's permissions can be used with the Azure Blob containers. How should you configure the application? To answer, drag the appropriate setting to the correct location. Each setting 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.

Settings

client\_id

delegated

profile

application

user\_impersonation

Answer Area

API

Azure Storage

Microsoft Graph

Permission

Setting

User.Read

Type

Setting

Setting

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Box 1: user\_impersonation  
Box 2: delegated Example:  
\* 1. Select the API permissions section  
\* 2. Click the Add a permission button and then: Ensure that the My APIs tab is selected  
\* 3. In the list of APIs, select the API TodoListService-aspnetcore.  
\* 4. In the Delegated permissions section, ensure that the right permissions are checked: user\_impersonation.  
\* 5. Select the Add permissions button.  
Box 3: delegated Example  
\* 1. Select the API permissions section  
\* 2. Click the Add a permission button and then, Ensure that the Microsoft APIs tab is selected  
\* 3. In the Commonly used Microsoft APIs section, click on Microsoft Graph  
\* 4. In the Delegated permissions section, ensure that the right permissions are checked: User.Read. Use the search box if necessary.  
\* 5. Select the Add permissions button  
References:  
<https://docs.microsoft.com/en-us/samples/azure-samples/active-directory-dotnet-webapp-webapi-openidconnect-aspnetcore/calling-a-web-api-in-an-aspnet-core-web-application-using-azure-ad/>

NEW QUESTION 257

HOTSPOT - (Topic 8)

You develop an image upload service that is exposed using Azure API Management. Images are analyzed after upload for automatic tagging. Images over 500 KB are processed by a different backend that offers a lower tier of service that costs less money. The lower tier of service is denoted by a header named x-lsrSe-req«st. Images over 500 KB must never be processed by backends for smaller images and must always be charged the lower price. You need to implement API Management policies to ensure that images are processed correctly. How should you complete the API Management inbound policy? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

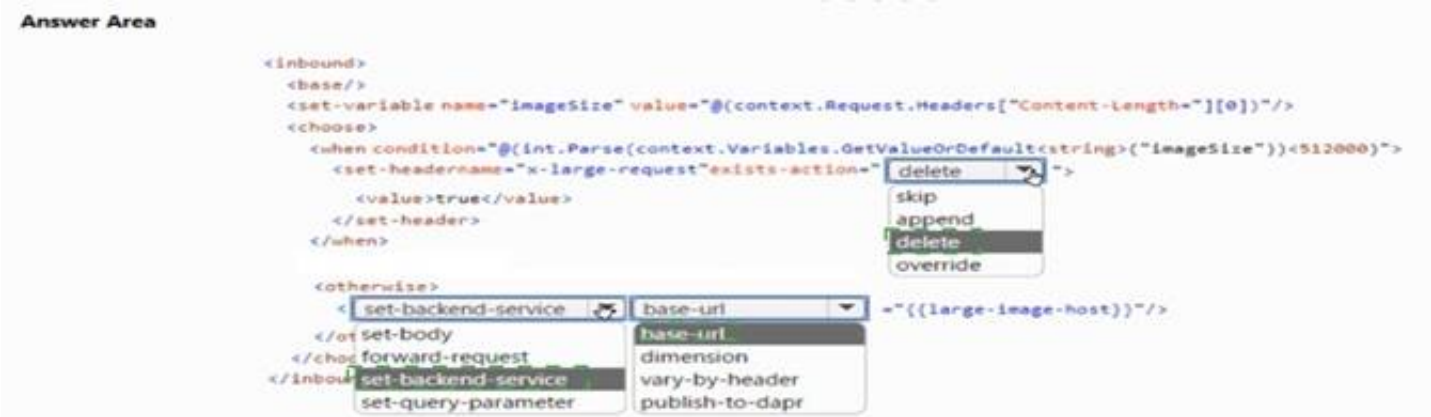




- A. Mastered
- B. Not Mastered

Answer: A

Explanation:



NEW QUESTION 259

HOTSPOT - (Topic 8)

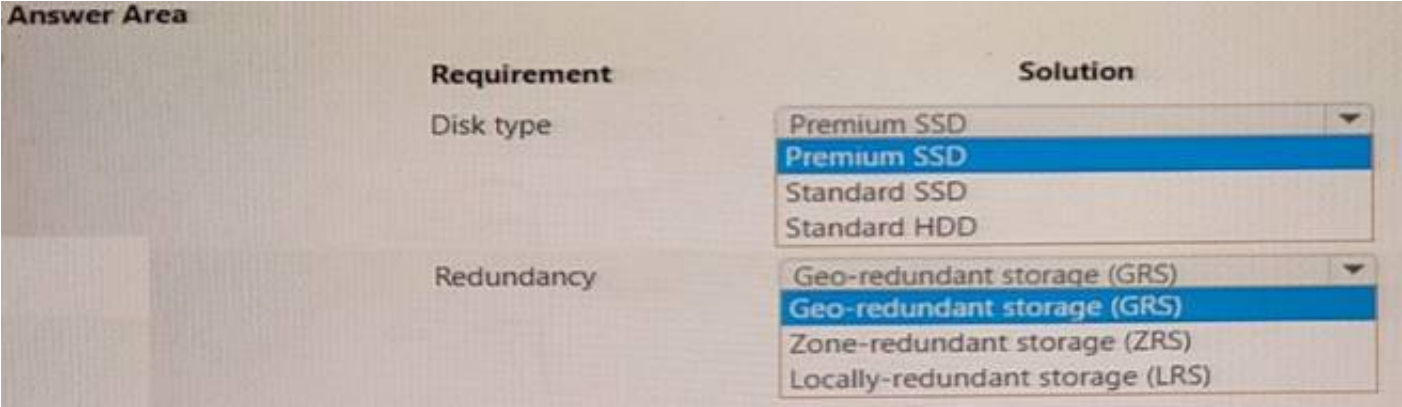
You are building a software-as-a-service (SaaS) application that analyzes DNA data that will run on Azure virtual machines (VMs) in an availability zone. The data is stored on managed disks attached to the VM. The performance of the analysis is determined by the speed of the disk attached to the VM.

You have the following requirements:

- The application must be able to quickly revert to the previous day's data if a systemic error is detected.
- The application must minimize downtime in the case of an Azure datacenter outage.

You need to provision the managed disk for the VM to maximize performance while meeting the requirements. Which type of Azure Managed Disk should you use? To answer, select the appropriate options in the answer area.

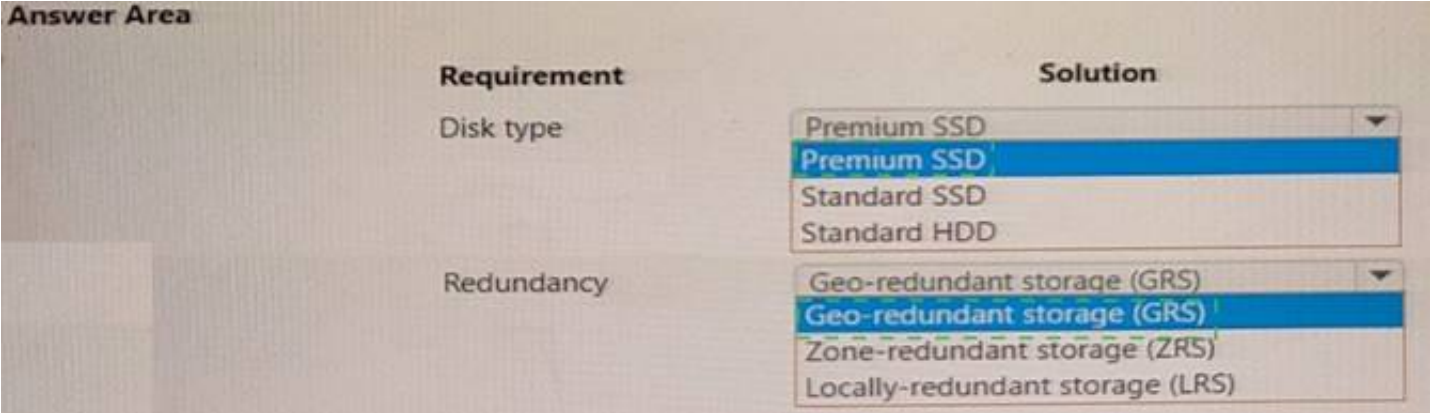
NOTE: Each correct selection is worth one point.



- A. Mastered
- B. Not Mastered

Answer: A

Explanation:



NEW QUESTION 261

DRAG DROP - (Topic 8)

You are preparing to deploy a medical records application to an Azure virtual machine (VM). The application will be deployed by using a VHD produced by an on-



premises build server.

You need to ensure that both the application and related data are encrypted during and after deployment to Azure.

Which three actions should you perform in sequence? To answer, move the appropriate actions from the list of actions to the answer area and arrange them in the correct order.

Actions

Encrypt the on-premises VHD by using BitLocker without a TPM. Upload the VM to Azure Storage.

Run the Azure PowerShell command `Set-AzureRmVMDiskEncryptionExtension`.

Run the Azure PowerShell command `Set-AzureRmVMOSSDisk`.

Encrypt the on-premises VHD by using BitLocker with a TPM. Upload the VM to Azure Storage.

Run the Azure PowerShell command `New-AzureRmVM`.

Answer area

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

Step 1: Encrypt the on-premises VHD by using BitLocker without a TPM. Upload the VM to Azure Storage

Step 2: Run the Azure PowerShell command `Set-AzureRmVMOSSDisk`

To use an existing disk instead of creating a new disk you can use the `Set-AzureRmVMOSSDisk` command.

Example:

```
$osDiskName = $vmname+'_osDisk'
```

```
$osDiskCaching = 'ReadWrite'
```

```
$osDiskVhdUri = "https://$stname.blob.core.windows.net/vhds/" + $vmname + "_os.vhd"
```

```
$vm = Set-AzureRmVMOSSDisk -VM $vm -VhdUri $osDiskVhdUri -name $osDiskName - Create
```

Step 3: Run the Azure PowerShell command `Set-AzureRmVMDiskEncryptionExtension` Use the `Set-AzVMDiskEncryptionExtension` cmdlet to enable encryption on a running IaaS virtual machine in Azure.

Incorrect:

Not TPM: BitLocker can work with or without a TPM. A TPM is a tamper resistant security chip on the system board that will hold the keys for encryption and check the integrity of the boot sequence and allows the most secure BitLocker implementation. A VM does not have a TPM.

References:

<https://www.itprotoday.com/iaaspaas/use-existing-vhd-azurerm-vm>

**NEW QUESTION 265**

HOTSPOT - (Topic 8)

You are developing a back-end Azure App Service that scales based on the number of messages contained in a Service Bus queue.

A rule already exists to scale up the App Service when the average queue length of unprocessed and valid queue messages is greater than 1000.

You need to add a new rule that will continuously scale down the App Service as long as the scale up condition is not met.

How should you configure the Scale rule? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Answer Area

Scale rule

Metric source

Storage queue

Service Bus queue

Current resource

Storage queue (classic)

Resource type

Service Bus Namespaces

Resource

MessageQueue1103

\* Queues

itemqueue

Criteria

\* Metric name

Message Count

Active Message Count

\* Time grain statistic

1 minute time grain

Total

Maximum

Average

Count

\* Operator

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Box 1: Service bus queue

You are developing a back-end Azure App Service that scales based on the number of messages contained in a Service Bus queue.

Box 2: ActiveMessage Count

ActiveMessageCount: Messages in the queue or subscription that are in the active state and ready for delivery.

Box 3: Count

Box 4: Less than or equal to

You need to add a new rule that will continuously scale down the App Service as long as the scale up condition is not met.

Box 5: Decrease count by

NEW QUESTION 270

DRAG DROP - (Topic 8)

You develop and deploy a web app to Azure App Service in a production environment. You scale out the web app to four instances and configure a staging slot to support changes.

You must monitor the web app in the environment to include the following requirements:

- Increase web app availability by re-routing requests away from instances with error status codes and automatically replace instances if they remain in an error state after one hour.
- Send web server logs, application logs, standard output and standard error messaging to an Azure Storage blob account.

You need to configure Azure App Service.

Which values should you use? To answer, drag the appropriate configuration value to the correct requirements. Each configuration value may be used once, more than....

Configuration values

Health check

Diagnostic setting

Deployment slot

Autoscale rule

Zone redundancy

Answer Area

Requirement

Increase availability

Send logs

Configuration value

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Configuration values

Health check

Diagnostic setting

Deployment slot

Autoscale rule

Zone redundancy

Answer Area

Requirement

Increase availability

Send logs

Configuration value

Autoscale rule

Zone redundancy

NEW QUESTION 272

HOTSPOT - (Topic 8)

You are developing an Azure-hosted e-commerce web application. The application will use Azure Cosmos DB to store sales orders. You are using the latest SDK to manage the sales orders in the database.

You create a new Azure Cosmos DB instance. You include a valid endpoint and valid authorization key to an appSettings.json file in the code project.

You are evaluating the following application code: (Line number are included for reference only.)

```
01 using System;
02 using System.Threading.Tasks;
03 using Microsoft.Azure.Cosmos;
04 using Microsoft.Extensions.Configuration;
05 using Newtonsoft.Json;
06 namespace SalesOrders
07 {
08     public class SalesOrder
09     {
10         // ...
11     }
12     internal class ManageSalesOrders
13     {
14         private static async Task GenerateSalesOrders()
15         {
16             IConfigurationRoot configuration = new ConfigurationBuilder().AddJsonFile("appSettings.json").Build();
17             string endpoint = configuration["EndPointUrl"];
18             string authKey = configuration["AuthorizationKey"];
19             using CosmosClient client = new CosmosClient(endpoint, authKey);
20             Database database = null;
21             using (await client.GetDatabase("SalesOrders").DeleteStreamAsync()) { }
22             database = await client.CreateDatabaseIfNotExistsAsync("SalesOrders");
23             Container container1 = await database.CreateContainerAsync(id: "Container1", partitionKeyPath: "/AccountNumber");
24             Container container2 = await database.CreateContainerAsync(id: "Container2", partitionKeyPath: "/AccountNumber");
25             SalesOrder salesOrder1 = new SalesOrder() { AccountNumber = "123456" };
26             await container1.CreateItemAsync(salesOrder1, new PartitionKey(salesOrder1.AccountNumber));
27             SalesOrder salesOrder2 = new SalesOrder() { AccountNumber = "654321" };
28             await container1.CreateItemAsync(salesOrder2, new PartitionKey(salesOrder2.AccountNumber));
29             SalesOrder salesOrder3 = new SalesOrder() { AccountNumber = "109876" };
30             await container2.CreateItemAsync(salesOrder3, new PartitionKey(salesOrder3.AccountNumber));
31             _ = await database.CreateUserAsync("User1");
32             User user1 = database.GetUser("User1");
33             _ = await user1.ReadAsync();
34         }
35     }
36 }
```

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
A database named SalesOrders is created. The database will include two containers.	<input type="radio"/>	<input type="radio"/>
Container1 will contain two items.	<input type="radio"/>	<input type="radio"/>
Container2 will contain one item.	<input type="radio"/>	<input type="radio"/>

- A. Mastered  
B. Not Mastered

Answer: A

Explanation:

Box 1: Yes

The createDatabaseIfNotExistsAsync method checks if a database exists, and if it doesn't, create it.

The Database.CreateContainerAsync method creates a container as an asynchronous operation in the Azure Cosmos service.

Box 2: Yes

The CosmosContainer.CreateItemAsync method creates an item as an asynchronous operation in the Azure Cosmos service.

Box 3: Yes

NEW QUESTION 275

- (Topic 8)

Your company is developing an Azure API.

You need to implement authentication for the Azure API. You have the following requirements:

? All API calls must be secure.  
? Callers to the API must not send credentials to the API.  
Which authentication mechanism should you use?

- A. Basic
- B. Anonymous
- C. Managed identity
- D. Client certificate

**Answer:** C

**Explanation:**

Use the authentication-managed-identity policy to authenticate with a backend service using the managed identity of the API Management service. This policy essentially uses the managed identity to obtain an access token from Azure Active Directory for accessing the specified resource. After successfully obtaining the token, the policy will set the value of the token in the Authorization header using the Bearer scheme.

Reference:

<https://docs.microsoft.com/bs-cyrl-ba/azure/api-management/api-management-authentication-policies>

**NEW QUESTION 279**

- (Topic 8)

You develop Azure Web Apps for a commercial diving company. Regulations require that all divers fill out a health questionnaire every 15 days after each diving job starts.

You need to configure the Azure Web Apps so that the instance count scales up when divers are filling out the questionnaire and scales down after they are complete.

You need to configure autoscaling.

What are two possible autoscaling configurations to achieve this goal? Each correct answer presents a complete solution.

NOTE: Each correct selection is worth one point.

- A. Predictive autoscaling
- B. CPU usage-based autoscaling
- C. Recurrence profile
- D. Fixed date profile

**Answer:** AD

**NEW QUESTION 282**

- (Topic 8)

You are developing a web application that uses Azure Cache for Redis. You anticipate that the cache will frequently fill and that you will need to evict keys.

You must configure Azure Cache for Redis based on the following predicted usage pattern: A small subset of elements will be accessed much more often than the rest.

You need to configure the Azure Cache for Redis to optimize performance for the predicted usage pattern.

Which two eviction policies will achieve the goal?

NOTE: Each correct selection is worth one point.

- A. noeviction
- B. allkeys-lru
- C. volatile-lru
- D. allkeys-random
- E. volatile-ttl
- F. volatile-random

**Answer:** BD

**Explanation:**

B: The allkeys-lru policy evict keys by trying to remove the less recently used (LRU) keys first, in order to make space for the new data added. Use the allkeys-lru policy when you expect a power-law distribution in the popularity of your requests, that is, you expect that a subset of elements will be accessed far more often than the rest.

C: volatile-lru: evict keys by trying to remove the less recently used (LRU) keys first, but only among keys that have an expire set, in order to make space for the new data added.

Note: The allkeys-lru policy is more memory efficient since there is no need to set an expire for the key to be evicted under memory pressure.

Reference: <https://redis.io/topics/lru-cache>

**NEW QUESTION 286**

DRAG DROP - (Topic 8)

You develop an Azure solution that uses Cosmos DB.

The current Cosmos DB container must be replicated and must use a partition key that is optimized for queries.

You need to implement a change feed processor solution.

Which change feed processor components should you use? To answer, drag the appropriate components to the correct requirements. Each component 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 the content.

NOTE: Each correct selection is worth one point.



Components	Requirement	Component
Host	Store the data from which the change feed is generated.	Component
Delegate	Coordinate processing of the change feed across multiple workers.	Component
Lease container	Use the change feed processor to listen for changes.	Component
Monitored container	Handle each batch of changes.	Component

- A. Mastered  
B. Not Mastered

**Answer:** A

**Explanation:**

Box 1: The monitored container

The monitored container has the data from which the change feed is generated. Any inserts and updates to the monitored container are reflected in the change feed of the container.

Box 2: The lease container

The lease container acts as a state storage and coordinates processing the change feed across multiple workers. The lease container can be stored in the same account as the monitored container or in a separate account.

Box 3: The host: A host is an application instance that uses the change feed processor to listen for changes. Multiple instances with the same lease configuration can run in parallel, but each instance should have a different instance name.

Box 4: The delegate

The delegate is the code that defines what you, the developer, want to do with each batch of changes that the change feed processor reads.

**NEW QUESTION 288**

- (Topic 8)

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 develop Azure solutions.

You must grant a virtual machine (VM) access to specific resource groups in Azure Resource Manager.

You need to obtain an Azure Resource Manager access token.

Solution: Run the Invoke-RestMethod cmdlet to make a request to the local managed identity for Azure resources endpoint.

Does the solution meet the goal?

- A. Yes  
B. No

**Answer:** A

**Explanation:**

Get an access token using the VM's system-assigned managed identity and use it to call Azure Resource Manager

You will need to use PowerShell in this portion.

? In the portal, navigate to Virtual Machines and go to your Windows virtual machine and in the Overview, click Connect.

? Enter in your Username and Password for which you added when you created the

Windows VM.

? Now that you have created a Remote Desktop Connection with the virtual machine, open PowerShell in the remote session.

? Using the Invoke-WebRequest cmdlet, make a request to the local managed identity for Azure resources endpoint to get an access token for Azure Resource Manager.

Example:

```
$response = Invoke-WebRequest -Uri 'http://169.254.169.254/metadata/identity/oauth2/token?api-version=2018-02-01&resource=https://management.azure.com/'  
-Method GET -Headers @{Metadata="true"}
```

Reference:

<https://docs.microsoft.com/en-us/azure/active-directory/managed-identities-azure-resources/tutorial-windows-vm-access-arm>

**NEW QUESTION 289**

- (Topic 8)

You develop and deploy an ASP.NET web app to Azure App Service. You use Application Insights telemetry to monitor the app.

You must test the app to ensure that the app is available and responsive from various points around the world and at regular intervals. If the app is not responding, you must send an alert to support staff.

You need to configure a test for the web app.

Which two test types can you use? Each correct answer presents a complete solution.

NOTE:Each correct selection is worth one point.

- A. integration  
B. multi-step web  
C. URL ping  
D. unit  
E. load

**Answer:** BC

**Explanation:**

There are three types of availability tests:

? URL ping test: a simple test that you can create in the Azure portal.

? Multi-step web test: A recording of a sequence of web requests, which can be played back to test more complex scenarios. Multi-step web tests are created in Visual Studio Enterprise and uploaded to the portal for execution.

? Custom Track Availability Tests: If you decide to create a custom application to run availability tests, the TrackAvailability() method can be used to send the results to Application Insights.

Reference:

<https://docs.microsoft.com/en-us/azure/azure-monitor/app/monitor-web-app-availability>

## NEW QUESTION 291

.....

## Relate Links

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