



# **Microsoft**

## **Exam Questions AZ-204**

Developing Solutions for Microsoft Azure

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### NEW QUESTION 1

- (Topic 8)

You are developing several Azure API Management (APIM) hosted APIs. The APIs have the following requirements:

Require a subscription key to access all APIs.

- Include terms of use that subscribers must accept to use the APIs.
- Administrators must review and accept or reject subscription attempts.
- Limit the count of multiple simultaneous subscriptions. You need to implement the APIs.

What should you do? OB.

- A. Create and publish a product.
- B. Configure and apply query string-based versioning.
- C. Configure and apply header-based versioning.
- D. Add a new revision to all API
- E. Make the revisions current and add a change log entr

**Answer: B**

### 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

- (Topic 8)

You develop and add several functions to an Azure Function app that uses the latest runtime host. The functions contain several REST API endpoints secured by using SSL. The Azure Function app runs in a Consumption plan.

You must send an alert when any of the function endpoints are unavailable or responding too slowly.

You need to monitor the availability and responsiveness of the functions. What should you do?

- A. Create a URL ping test.
- B. Create a timer triggered function that calls TrackAvailability() and send the results to ApplicationInsights.
- C. Create a timer triggered function that calls GetMetric("Request Size") and send the results to Application Insights.
- D. Add a new diagnostic setting to the Azure Function ap
- E. Enable the FunctionAppLogs and Send to Log Analytics options.

**Answer: B**

#### Explanation:

You can create an Azure Function with TrackAvailability() that will run periodically according to the configuration given in TimerTrigger function with your own business logic. The results of this test will be sent to your Application Insights resource, where you will be able to query for and alert on the availability results data. This allows you to create customized tests similar to what you can do via Availability Monitoring in the portal. Customized tests will allow you to write more complex availability tests than is possible using the portal UI, monitor an app inside of your Azure VNET, change the endpoint address, or create an availability test even if this feature is not available in your region.

D18912E1457D5D1DDCDBD40AB3BF70D5D

Reference:

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

### NEW QUESTION 4

HOTSPOT - (Topic 8)

You provisioned an Azure Cosmos DB for NoSQL account named account1 with the default consistency level.

You plan to configure the consistency level on a per request basis The level needs to be set for consistent prefix for read and write operations to account1.

You need to identify the resulting consistency level for read and write operations. Which levels should you configure? To answer, select the appropriate options in the

answer area.

NOTE: Each correct selection is worth one point.

**Answer Area**

Operation type	Resulting consistency level
Read operations	<div style="border: 1px solid gray; padding: 5px;"> <div style="border-bottom: 1px solid gray; margin-bottom: 5px;">▼</div> <p>strong</p> <p>session</p> <p>consistent prefix</p> </div>
Write operations	<div style="border: 1px solid gray; padding: 5px;"> <div style="border-bottom: 1px solid gray; margin-bottom: 5px;">▼</div> <p>strong</p> <p>session</p> <p>consistent prefix</p> </div>

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

**Answer Area**

Operation type	Resulting consistency level
Read operations	<div style="border: 1px solid gray; padding: 5px;"> <div style="border-bottom: 1px solid gray; margin-bottom: 5px;">▼</div> <p>strong</p> <p>session</p> <p>consistent prefix</p> </div>
Write operations	<div style="border: 1px solid gray; padding: 5px;"> <div style="border-bottom: 1px solid gray; margin-bottom: 5px;">▼</div> <p>strong</p> <p>session</p> <p>consistent prefix</p> </div>

**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

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	Answer Area	Policy	Policy section
Inbound		Set-variable	policy section
Outbound		Cache-lookup-value	policy section
		Cache-store-value	policy section
		Find-and-replace	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

- (Topic 8)

An organization deploys Azure Cosmos DB.

You need to ensure that the index is updated as items are created, updated, or deleted. What should you do?

- A. Set the value of the EnableScanInQuery option to True.
- B. Set the indexing mode to Consistent.
- C. Set the indexing mode to Lazy.
- D. Set the value of the automatic property of the indexing policy to False.

**Answer: B**

### NEW QUESTION 7

- (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); D18912E1457D5D1DDCCBD40AB3BF70D5D`
- 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 8

- (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 9**

- (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 10**

DRAG DROP - (Topic 8)

You manage several existing Logic Apps.

You need to change definitions, add new logic, and optimize these apps on a regular basis. What should you use? To answer, drag the appropriate tools to the correct functionalities.

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	Functionality	Tool
Logic Apps Designer	Edit B2B workflows	<input type="text"/>
Code View Editor	Edit definitions in JSON	<input type="text"/>
Enterprise Integration Pack	Visually add functionality	<input type="text"/>

- A. Mastered
- B. Not Mastered

**Answer: A**

**Explanation:**

Box 1: Enterprise Integration Pack

After you create an integration account that has partners and agreements, you are ready to create a business to business (B2B) workflow for your logic app with the Enterprise Integration Pack.

Box 2: Code View Editor

To work with logic app definitions in JSON, open the Code View editor when working in the Azure portal or in Visual Studio, or copy the definition into any editor that you want.

Box 3: Logical Apps Designer

You can build your logic apps visually with the Logic Apps Designer, which is available in the Azure portal through your browser and in Visual Studio.

References:

<https://docs.microsoft.com/en-us/azure/logic-apps/logic-apps-enterprise-integration-b2b> <https://docs.microsoft.com/en-us/azure/logic-apps/logic-apps-author-definitions> <https://docs.microsoft.com/en-us/azure/logic-apps/logic-apps-overview>

**NEW QUESTION 10**

- (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 12**

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", "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 13**

DRAG DROP - (Topic 8)

A web service provides customer summary information for e-commerce partners. The web service is implemented as an Azure Function app with an HTTP trigger. Access to the API is provided by an Azure API Management instance. The API Management instance is configured in consumption plan mode. All API calls are authenticated by using OAuth.

API calls must be cached. Customers must not be able to view cached data for other customers.

You need to configure API Management policies for caching. How should you complete the policy statement?

**Targets**

- Expect
- Public
- Private
- Internal
- External
- Authorization

**Answer Area**

```

<policies>
<inbound>
<base />
<cache-lookup caching-type="
Target
" downstream-caching-type = "
Target
">
  <vary-by-header>
    Target
  </vary-by-header>
</cache-lookup>
</inbound>
</policies>

```

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Box 1: internal caching-type

Choose between the following values of the attribute:

- ? internal to use the built-in API Management cache,
- ? external to use the external cache as Azure Cache for Redis
- ? prefer-external to use external cache if configured or internal cache otherwise.

Box 2: private downstream-caching-type

This attribute must be set to one of the following values.

- ? none - downstream caching is not allowed.
- ? private - downstream private caching is allowed.
- ? public - private and shared downstream caching is allowed.

Box 3: Authorization

<vary-by-header>Authorization</vary-by-header>

<!-- should be present when allow-private-response-caching is "true"-->

Note: Start caching responses per value of specified header, such as Accept, Accept-Charset, Accept-Encoding, Accept-Language, Authorization, Expect, From, Host, If-Match

**NEW QUESTION 17**

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 permissions on the containers that store photographs. You assign users to RBAC roles.

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 can 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	Answer Area		
	API	Permission	Type
client_id	Azure Storage	Setting	Setting
profile			
delegated			
application	Microsoft Graph	User.Read	Setting
user_impersonation			

- 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

**NEW QUESTION 22**

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
tExistsAsync(); CreateCloudQueueClient ("contoso-storage");
CreateCloudTableClient
GetQueueReference
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 tExistsAsync();
CloudTable ("contoso-storage");
    
```

**NEW QUESTION 27**

HOTSPOT - (Topic 8)

You have an Azure Web app that uses Cosmos DB as a data store. You create a CosmosDB container by running the following PowerShell script:

```

$resourceGroupName = "testResourceGroup"
$accountName = "testCosmosAccount"
$databaseName = "testDatabase"
$containerName = "testContainer"
$partitionKeyPath = "/EmployeeId"
$autoscaleMaxThroughput = 5000 New-AzCosmosDBSqlContainer
-ResourceGroupName $resourceGroupName
-AccountName $accountName
-DatabaseName $databaseName
-Name $containerName
-PartitionKeyKind Hash
-PartitionKeyPath $partitionKeyPath
-AutoscaleMaxThroughput $autoscaleMaxThroughput
    
```

You create the following queries that target the container:

```

SELECT * FROM c WHERE c.EmployeeId > '12345'
SELECT * FROM c WHERE c.UserID = '12345'
    
```

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

NOTE: Each correct selection is worth one point.

	<b>Yes</b>	<b>No</b>
The minimum throughput for the container is 400 R/Us.	<input type="radio"/>	<input type="radio"/>
The first query statement is an in-partition query.	<input type="radio"/>	<input type="radio"/>
The second query statement is a cross-partition query.	<input type="radio"/>	<input type="radio"/>

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

Box 1: No

You set the highest, or maximum RU/s Tmax you don't want the system to exceed. The system automatically scales the throughput T such that  $0.1 * Tmax \leq T \leq Tmax$ .

In this example we have autoscaleMaxThroughput = 5000, so the minimum throughput for the container is 500 R/Us.

Box 2: No

First query: `SELECT * FROM c WHERE c.EmployeeId > '12345'`

Here's a query that has a range filter on the partition key and won't be scoped to a single physical partition. In order to be an in-partition query, the query must have an equality filter that includes the partition key:

```

SELECT * FROM c WHERE c.DeviceId = 'XMS-0001'
    
```

Box 3: Yes

Example of In-partition query:

Consider the below query with an equality filter on DeviceId. If we run this query on a container partitioned on DeviceId, this query will filter to a single physical partition.

```

SELECT * FROM c WHERE c.DeviceId = 'XMS-0001'
    
```

**NEW QUESTION 29**

HOTSPOT - (Topic 8)

You are developing a web application that makes calls to the Microsoft Graph API. You register the application in the Azure portal and upload a valid X509 certificate.

You create an appsettings.json file containing the certificate name, client identifier for the application, and the tenant identifier of the Azure active Directory (Azure AD). You create a method named ReadCertificate to return the X509 certificate by name.

You need to implement code that acquires a token by using the certificate.

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.

```

AuthenticationConfig config = AuthenticationConfig.ReadFromJsonFile("appsettings.json");
X509Certificate2 certificate = ReadCertificate(config.CertificateName);
var app =
    ConfidentialClientApplicationBuilder
        .GetAccountAsync()
        .GetAccountsAsync()
        .ConfidentialClientApplication
        .WithCertificate(certificate)
        .WithAuthority(new Uri(config.Authority))
        .Build();
string[] scopes = new string[] { $"{config.ApiUrl}.default" };
AuthenticationResult result = await app.AcquireTokenForClient(
    scopes
    app
    config
).ExecuteAsync();

```

- A. Mastered
- B. Not Mastered

**Answer: A**

**Explanation:**

<https://docs.microsoft.com/en-us/azure/active-directory/develop/scenario-daemon-app-configuration?tabs=dotnet#instantiate-the-confidential-client-application-with-a-client-certificate>  
<https://docs.microsoft.com/en-us/azure/active-directory/develop/scenario-daemon-acquire-token?tabs=dotnet#acquiretokenforclient-api>

**NEW QUESTION 32**

- (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 35**

- (Topic 8)

You are developing a web application that runs as an Azure Web App. The web application stores data in Azure SQL Database and stores files in an Azure Storage account. The web application makes HTTP requests to external services as part of normal operations.

The web application is instrumented with Application Insights. The external services are OpenTelemetry compliant.

You need to ensure that the customer ID of the signed in user is associated with all operations throughout the overall system.

What should you do?

- A. Create a new SpanContext with the TraceRags value set to the customer ID for the signed in user.
- B. On the current SpanContext, set the Traceld to the customer ID for the signed in user.
- C. Add the customer ID for the signed in user to the CorrelationContext in the web application.
- D. Set the header Ocp-Apim-Trace to the customer ID for the signed in user.

**Answer: C**

**Explanation:**

Reference:

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

**NEW QUESTION 40**

- (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 Function App that uses an Azure Storage Queue trigger.

Does the solution meet the goal?

- A. Yes
- B. No

**Answer: A**

**Explanation:**

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 44**

HOTSPOT - (Topic 8)

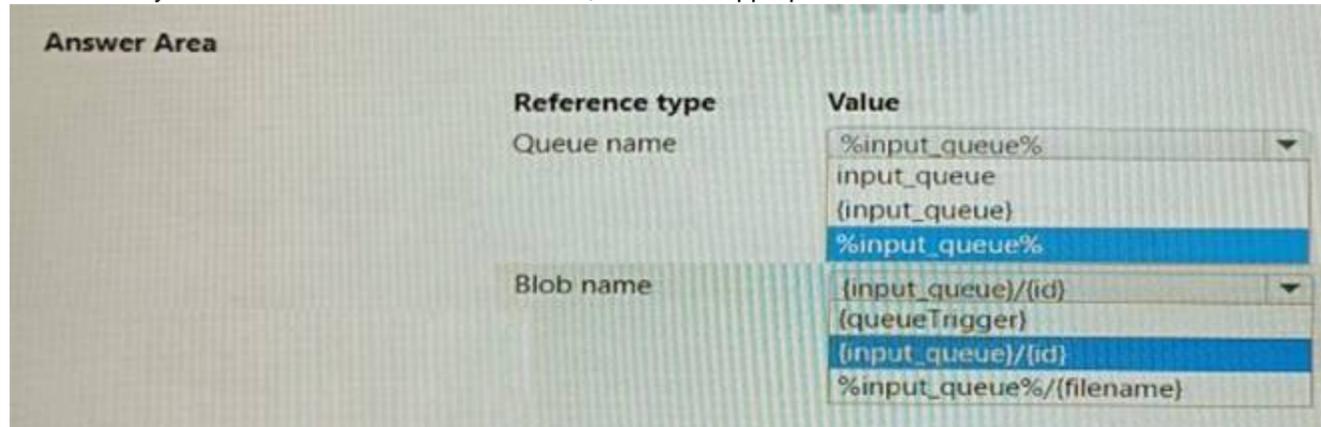
You plan to implement an Azure Functions app.

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.

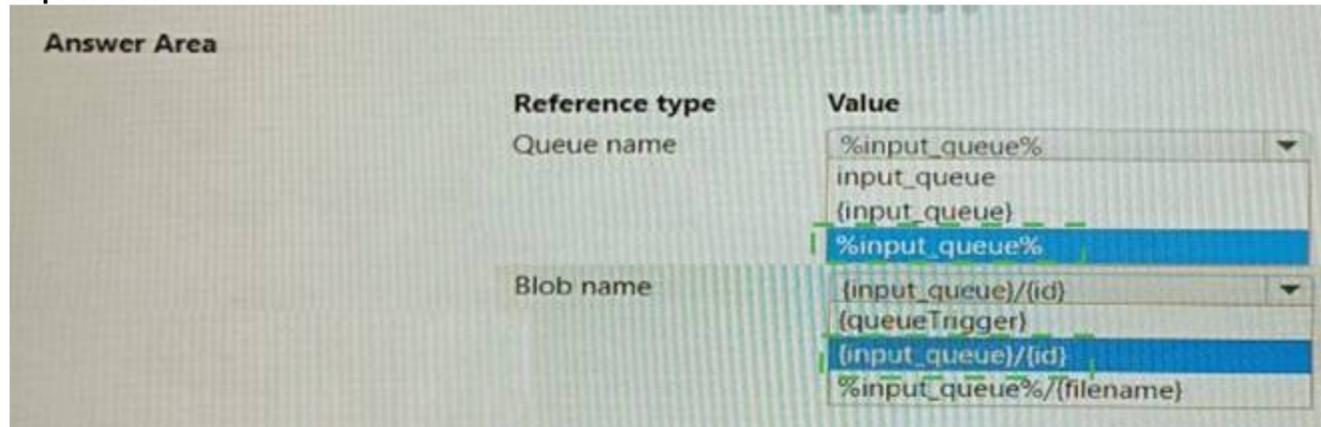
How should you reference the names? To answer, select the appropriate values in the answer area. NOTE: Each correct selection is worth one point.



- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**



**NEW QUESTION 48**

HOTSPOT - (Topic 8)

You are debugging an application that is running on Azure Kubernetes cluster named cluster1. The cluster uses Azure Monitor for containers to monitor the cluster.

The application has sticky sessions enabled on the ingress controller.

Some customers report a large number of errors in the application over the last 24 hours. You need to determine on which virtual machines (VMs) the errors are occurring.

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

NOTE:Each correct selection is worth one point.

```
let startTimestamp = 
|> ago(1d)
|> since(1d)
|> totimespan(1d)
|> date(now() - 1d)

let ContainerIDs = KubePodInventory
|> where ClusterName == "Cluster1"
|> 
|> top ContainerID
|> union ContainerID
|> sample ContainerID
|> distinct ContainerID

ContainerLog
|> 
|> fork containerIDs
|> where ContainerID in (ContainerIDs)
|> restrict ContainerID in (ContainerIDs)
|> join ContainerID == ContainerIDs.ContainerID

|> where TimeGenerated > startTimestamp
|> where LogEntrySource == "stderr"
|> 
|> project by Computer
|> summarize by Computer
|> partition count() by Computer
|> summarize count() by Computer
```

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

Box 1: ago(1d)  
 Box 2: distinct containerID  
 Box 3: where ContainerID in (ContainerIDs)  
 Box 4: summarize Count by Computer Summarize: aggregate groups of rows  
 Use summarize to identify groups of records, according to one or more columns, and apply aggregations to them. The most common use of summarize is count, which returns the number of results in each group.

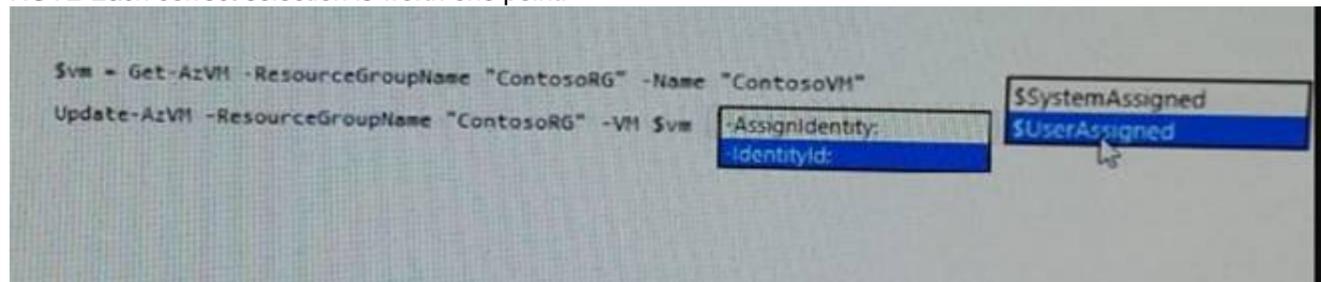
**NEW QUESTION 53**

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>

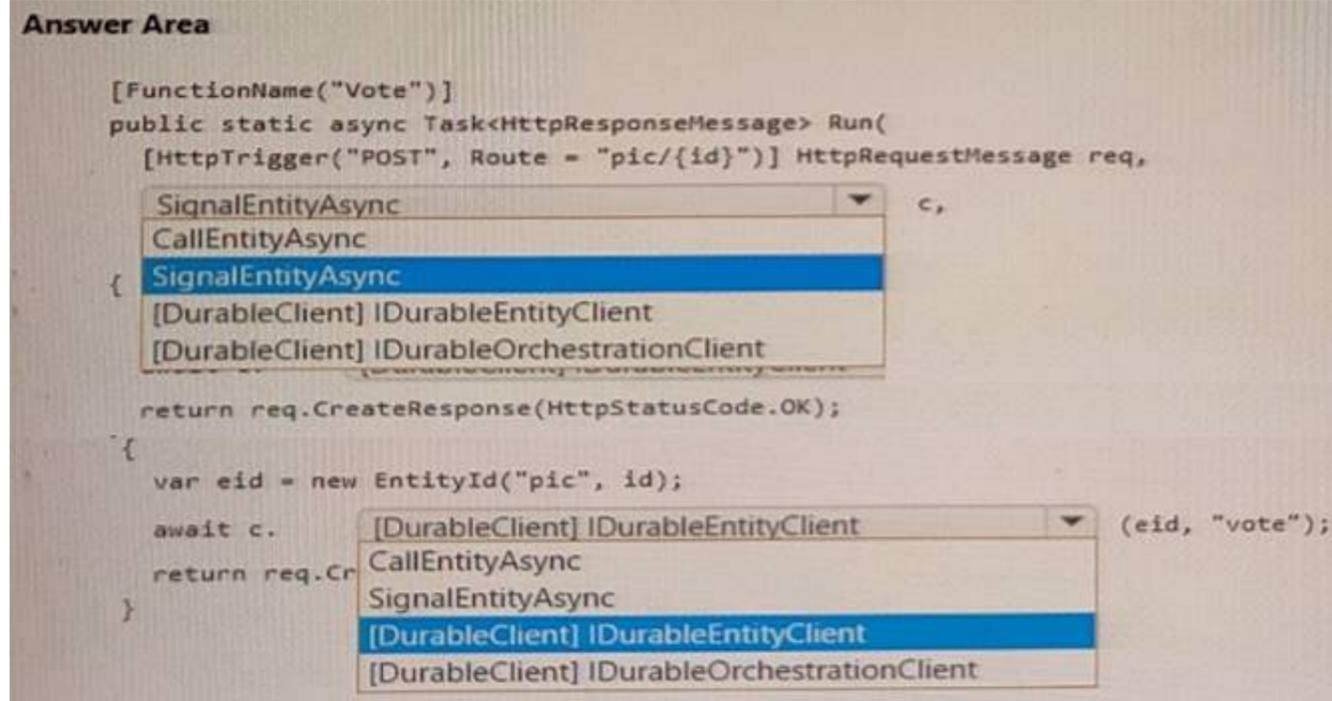
**NEW QUESTION 55**

**HOTSPOT - (Topic 8)**

You are developing an online game that allows players to vote for their favorite photo that illustrates a word. The game is built by using Azure Functions and uses durable entities to track the vote count

The voting window is 30 seconds. You must minimize latency. You need to implement the Azure Function for voting.

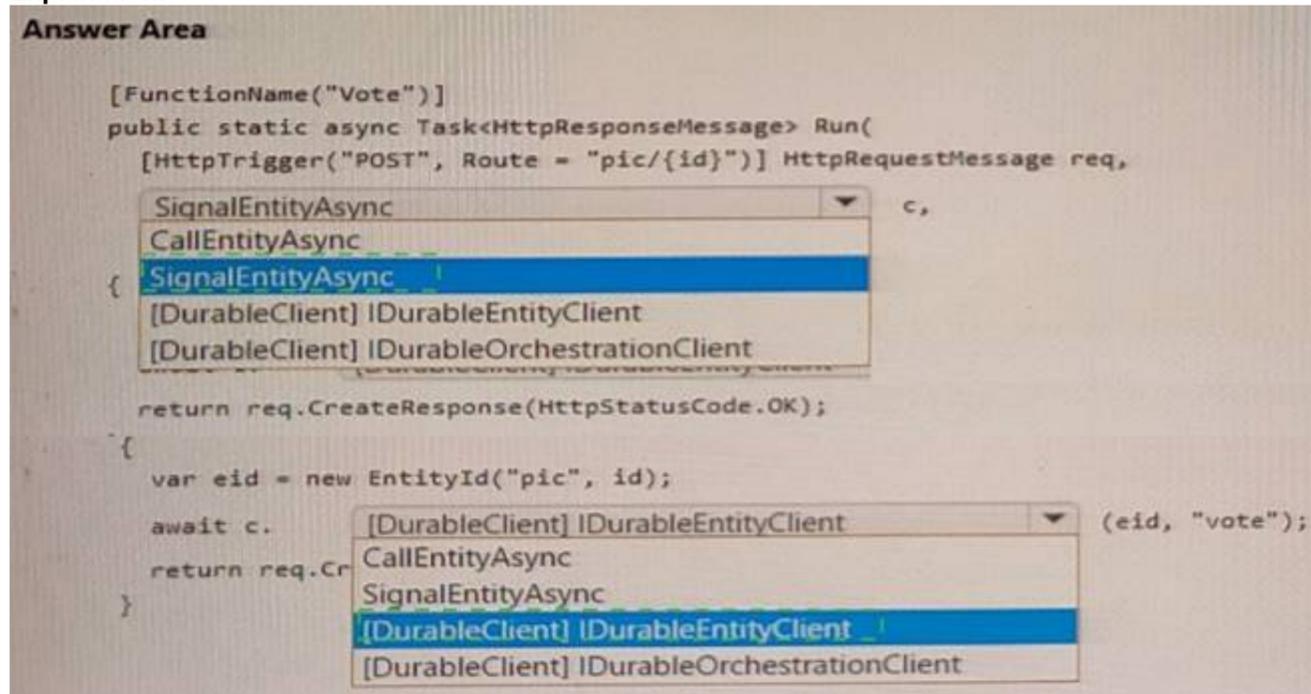
How should you complete the code? To answer, select the appropriate options in the answer area.



- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**



**NEW QUESTION 56**

- (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: Convert the Azure Storage account to a BlockBlobStorage storage account. Does the solution meet the goal?

- A. Yes
- B. No

**Answer:** B

**Explanation:**

Not necessary to convert the account, instead move photo processing to an Azure Function triggered from the blob upload..

Azure Storage events allow applications to react to events. Common Blob storage event scenarios include image or video processing, search indexing, or any file-oriented workflow.

Note: Only storage accounts of kind StorageV2 (general purpose v2) and BlobStorage support event integration. Storage (general purpose v1) does not support integration with Event Grid.

Reference:

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

**NEW QUESTION 61**

- (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 66**

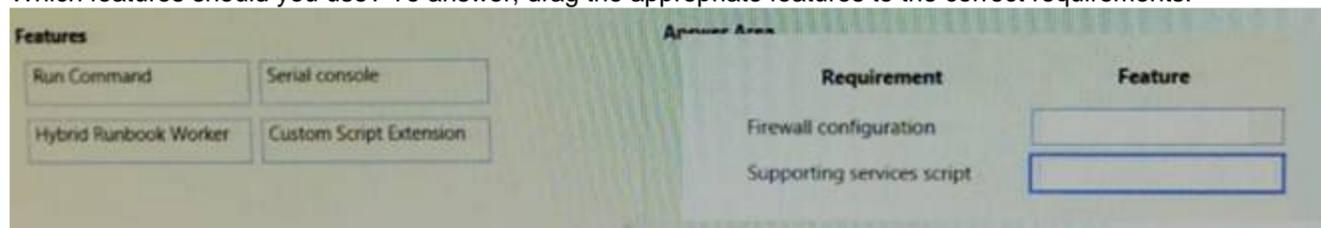
DRAG DROP - (Topic 8)

You are preparing to deploy an Azure virtual machine (VM) based application. The VMs that run the application have the following requirements:

- When a VM is provisioned the firewall must be automatically configured before it can access Azure resources.
- Supporting services must be installed by using an Azure PowerShell script that is stored in Azure Storage

You need to ensure that the requirements are met.

Which features should you use? To answer, drag the appropriate features to the correct requirements.

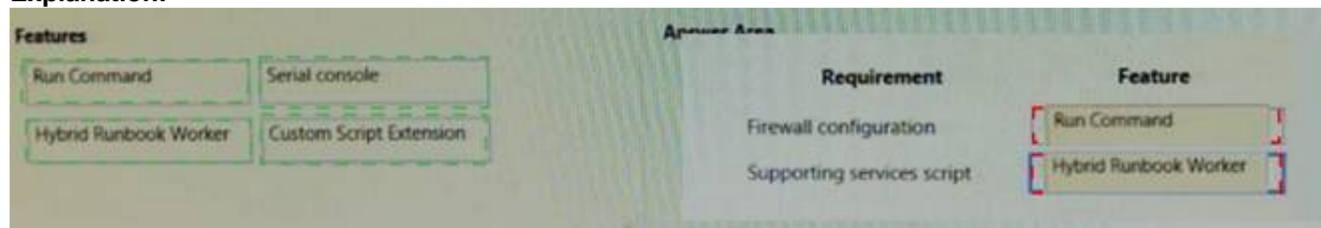


Features	Requirement	Feature
Run Command	Firewall configuration	
Serial console	Supporting services script	
Hybrid Runbook Worker		
Custom Script Extension		

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**



Features	Requirement	Feature
Run Command	Firewall configuration	Run Command
Serial console	Supporting services script	Hybrid Runbook Worker
Hybrid Runbook Worker		
Custom Script Extension		

**NEW QUESTION 71**

HOTSPOT - (Topic 8)

You are developing an application that runs in several customer Azure Kubernetes Service clusters, within each cluster, a pod runs that collects performance data to be analyzed later, a large amount of data is collected so saving latency must be minimized

The performance data must be stored so that pod restarts do not impact the stored data. Write latency should be minimized.

You need to configure blob storage.

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

```

apiVersion: storage.k8s.io/v1
kind: 
metadata: PodStorage
      StorageClass
      PersistentVolume
      PersistentVolumeClaim

name: data-store
provisioner: kubernetes.io, 
      azure-disk
      azure-file
      portworx-volume
      scaleio

parameters:
  skuName: Premium_LRS
  reclaimPolicy: 
    local
    retain
    delete
  
```

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

```

apiVersion: storage.k8s.io/v1
kind: 
metadata: PodStorage
      StorageClass
      PersistentVolume
      PersistentVolumeClaim

name: data-store
provisioner: kubernetes.io, 
      azure-disk
      azure-file
      portworx-volume
      scaleio

parameters:
  skuName: Premium_LRS
  reclaimPolicy: 
    local
    retain
    delete
  
```

**NEW QUESTION 74**

- (Topic 8)

You are 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 cost 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 76**

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 style="border: 1px solid black; padding: 2px;"> <div style="background-color: #f0f0f0; padding: 2px; display: flex; justify-content: space-between; align-items: center;"> <span>▼</span> </div> <div style="padding: 2px;"> <p>2</p> <p>4</p> <p>8</p> <p>16</p> </div> </div>
Pricing tier	<div style="border: 1px solid black; padding: 2px;"> <div style="background-color: #f0f0f0; padding: 2px; display: flex; justify-content: space-between; align-items: center;"> <span>▼</span> </div> <div style="padding: 2px;"> <p>Isolated</p> <p>Standard</p> <p>Premium</p> <p>Consumption</p> </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 80**

- (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 81**

- (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 82**

- (Topic 8)

You use Azure Table storage to store customer information for an application. The data contains customer details and is partitioned by last name. You need to create a query that returns all customers with the last name Smith. Which code segment should you use?

- A. `TableQuery.GenerateFilterCondition("PartitionKey", Equals, "Smith")`
- B. `TableQuery.GenerateFilterCondition("LastName", Equals, "Smith")`
- C. `TableQuery.GenerateFilterCondition("PartitionKey", QueryComparisons.Equal, "Smith")`
- D. `TableQuery.GenerateFilterCondition("LastName", QueryComparisons.Equal, "Smith")`

**Answer: C**

**Explanation:**

Retrieve all entities in a partition. The following code example specifies a filter for entities where 'Smith' is the partition key. This example prints the fields of each entity in the query results to the console.

Construct the query operation for all customer entities where PartitionKey="Smith".

```
TableQuery<CustomerEntity> query = new TableQuery<CustomerEntity>().Where(TableQuery.GenerateFilterCondition("PartitionKey", QueryComparisons.Equal, "Smith"));
```

References:

<https://docs.microsoft.com/en-us/azure/cosmos-db/table-storage-how-to-use-dotnet>

**NEW QUESTION 86**

- (Topic 8)

You are a developer for a SaaS company that offers many web services. All web services for the company must meet the following requirements:

- ? Use API Management to access the services
- ? Use OpenID Connect for authentication
- ? Prevent anonymous usage

A recent security audit found that several web services can be called without any authentication.

Which API Management policy should you implement?

- A. jsonp
- B. authentication-certificate
- C. check-header
- D. validate-jwt

**Answer: D**

**Explanation:**

Add the validate-jwt policy to validate the OAuth token for every incoming request. Reference:

<https://docs.microsoft.com/en-us/azure/api-management/api-management-howto-protect-backend-with-aad>

**NEW QUESTION 90**

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.	

Navigation arrows: > < (between actions) and ^ v (in answer area)

- 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 94**

- (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 96**

DRAG DROP - (Topic 8)

You have an Azure Cosmos DB for NoSQL account.

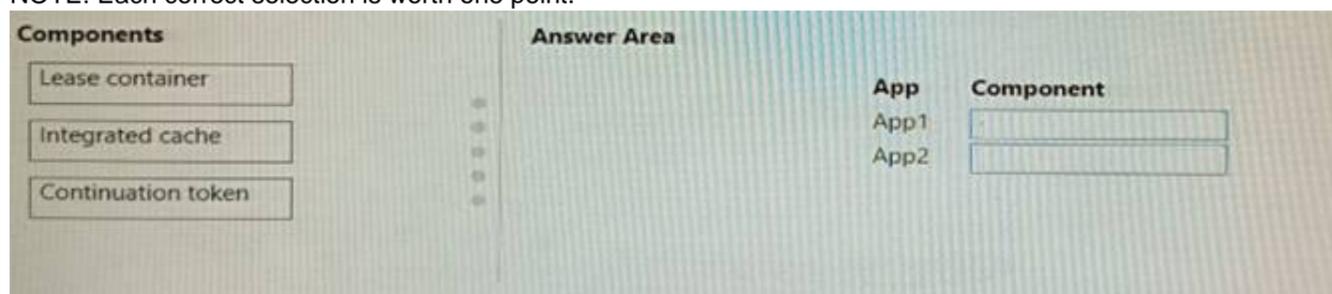
You plan to develop two apps named App1 and App2 that will use the change feed functionality to track changes to containers.

App1 will use the pull model and App2 will use the push model.

You need to choose the method to track the most recently processed change in App1 and App2.

Which component should you use? To answer, drag the appropriate components to the correct apps. 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 content.

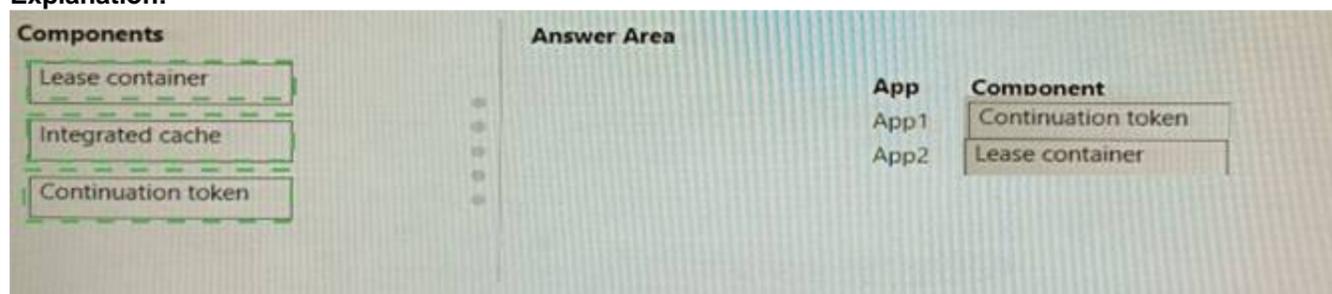
NOTE: Each correct selection is worth one point.



- A. Mastered
- B. Not Mastered

**Answer: A**

**Explanation:**



**NEW QUESTION 100**

- (Topic 8)

You deploy an API to API Management.

You must secure all operations on the API by using a client certificate.

You need to secure access to the backend service of the API by using client certificates. Which two security features can you use?

- A. Azure AD token
- B. Self-signed certificate
- C. Certificate Authority (CA) certificate
- D. Triple DES (3DES) cipher
- E. Subscription key

**Answer: BC**

**NEW QUESTION 104**

- (Topic 8)

You deploy an Azure App Service web app. You create an app registration for the app in Azure Active Directory (Azure AD) and Twitter. The app must authenticate users and must use SSL for all communications. The app must use Twitter as the identity provider. You need to validate the Azure AD request in the app code.

What should you validate?

- A. HTTP response code
- B. ID token header
- C. ID token signature
- D. Tenant ID

**Answer: B**

**NEW QUESTION 107**

HOTSPOT - (Topic 8)

You are developing a solution to store documents in Azure Blob storage. Customers upload documents to multiple containers. Documents consist of PDF, CSV, Microsoft Office format, and plain text files.

The solution must process millions of documents across hundreds of containers. The solution must meet the following requirements:

- \* Document must be categorized by a customer identifier as they are uploaded to the storage account.
- \* Allow filtering by the customer identifier.
- \* Allow searching of information contained within a document.
- \* Minimize costs.

You created and configured a standard general-purpose v2 storage account to support the solution.

You need to implement the solution.

NOTE: Each correct selection is worth one point.

Answer Area

Requirement	Solution
Search and filter by customer identifier.	<ul style="list-style-type: none"> <li>Azure Cognitive Search</li> <li>Azure Blob index tags</li> <li>Azure Blob inventory policy</li> <li>Azure Blob metadata</li> </ul>
Search information inside documents.	<ul style="list-style-type: none"> <li>Azure Cognitive Search</li> <li>Azure Blob index tags</li> <li>Azure Blob inventory policy</li> <li>Azure Blob metadata</li> </ul>

- A. Mastered
- B. Not Mastered

Answer: A

**Explanation:**

Azure Blob Index tags: <https://docs.microsoft.com/en-us/azure/storage/blobs/storage-blob-index-how-to?tabs=azure-portal>

Azure Cognitive Search: Search inside documents

**NEW QUESTION 110**

HOTSPOT - (Topic 8)

You are developing an application that uses a premium block blob storage account. You are optimizing costs by automating Azure Blob Storage access tiers. You apply the following policy rules to the storage account. You must determine the implications of applying the rules to the data. (Line numbers are included for reference only.)

```

01 {
02   "rules":
03     {
04       "name": "agingDataRule",
05       "enabled": true,
06       "type": "Lifecycle",

```

Answer Area

	Yes	No
Block blobs prefixed with container1/salesorders or container2/inventory which have not been modified in over 60 days are moved to cool storage. Blobs that have not been modified in 120 days are moved to the archive tier.	<input type="radio"/>	<input type="radio"/>
Blobs are moved to cool storage if they have not been accessed for 30 days.	<input type="radio"/>	<input checked="" type="radio"/>
Blobs will automatically be tiered from cool back to hot if accessed again after being tiered to cool.	<input type="radio"/>	<input type="radio"/>
All block blobs older than 730 days will be deleted.	<input type="radio"/>	<input type="radio"/>

- A. Mastered
- B. Not Mastered

Answer: A

**Explanation:**

- \* 1. Yes
- \* 2. Yes
- \* 3. Yes
- \* 4. No

<https://docs.microsoft.com/en-us/azure/storage/blobs/lifecycle-management-overview?tabs=azure-portal#move-aging-data-to-a-cooler-tier>

**NEW QUESTION 114**

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.

```
public static IHostBuilder CreateHostBuilder(string[] args) =>
    Host.CreateDefaultBuilder(args)
        .ConfigureWebHostDefaults(web =>
        {
            web.ConfigureAppConfiguration((hc, config) =>
            {
                var settings = config.Build();
                config. (options =>
                {
                    AddAzureKeyVault
                    DefaultAzureCredential
                    ChainedTokenCredential
                    ManagedIdentityCredential
                    AddAzureAppConfiguration

                });

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

- 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 =>
                {
                    AddAzureKeyVault
                    DefaultAzureCredential
                    ChainedTokenCredential
                    ManagedIdentityCredential
                    AddAzureAppConfiguration

                });

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

**NEW QUESTION 115**

- (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 116**

DRAG DROP - (Topic 8)

You are developing a .NET Core model-view controller (MVC) application hosted on Azure for a health care system that allows providers access to their information.

You develop the following code:

```
services.AddAuthorization (options =>
{
    options.AddPolicy("ProviderPartner", policy =>
    {
        .policy.AddAuthenticationSchemes("Cookie, Bearer");
        policy.RequireAuthenticatedUser();
        policy.RequireRole("ProviderAdmin", "SysAdmin");
        policy.RequireClaim("editor", "partner");
    });
});
```

You define a role named SysAdmin.

You need to ensure that the application meets the following authorization requirements:

? Allow the ProviderAdmin and SysAdmin roles access to the Partner controller regardless of whether the user holds an editor claim of partner.

? Limit access to the Manage action of the controller to users with an editor claim of partner who are also members of the SysAdmin role.

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.

```
services.AddAuthorization (options =>
{
    options.AddPolicy("ProviderPartner",
    {
        .policy.AddAuthenticationSchemes("Cookie, Bearer");
        policy.RequireAuthenticatedUser();
        policy.RequireRole("ProviderAdmin", "SysAdmin");
        policy.RequireClaim("editor", "partner");
    });
});
```

- A. Mastered
- B. Not Mastered

Answer: A

**Explanation:**

Box 1:

Allow the ProviderAdmin and SysAdmin roles access to the Partner controller regardless of whether the user holds an editor claim of partner.

Box 2:

Limit access to the Manage action of the controller to users with an editor claim of partner who are also members of the SysAdmin role.

**NEW QUESTION 121**

- (Topic 8)

You are updating an application that stores data on Azure and uses Azure Cosmos DB for storage. The application stores data in multiple documents associated with a single username.

The application requires the ability to update multiple documents for a username in a single ACID operation.

You need to configure Azure Cosmos DB.

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 Cosmos DB to use the Azure Cosmos DB for Apache Gremlin API.
- B. Configure Azure Cosmos DB to use the Azure Cosmos DB for MongoDB API.
- C. Create a collection sharded on username to store documents.
- D. Create an unsharded collection to store documents.

Answer: BD

**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 style="border: 1px solid black; padding: 2px;"> <div style="background-color: #ccc; padding: 2px; display: flex; justify-content: space-between; align-items: center;"> <span></span> <span>▼</span> </div> <div style="padding: 2px;"> <p>3</p> <p>4</p> <p>6</p> <p>12</p> </div> </div>
Partition Key	<div style="border: 1px solid black; padding: 2px;"> <div style="background-color: #ccc; padding: 2px; display: flex; justify-content: space-between; align-items: center;"> <span></span> <span>▼</span> </div> <div style="padding: 2px;"> <p>Highway</p> <p>Department</p> <p>Timestamp</p> <p>VM name</p> </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 126**

DRAG DROP - (Topic 8)

You are developing a serverless Java application on Azure. You create a new Azure Key Vault to work with secrets from a new Azure Functions application. The application must meet the following requirements:  
 ? Reference the Azure Key Vault without requiring any changes to the Java code.  
 ? Dynamically add and remove instances of the Azure Functions host based on the number of incoming application events.  
 ? Ensure that instances are perpetually warm to avoid any cold starts.  
 ? Connect to a VNet.  
 ? Authentication to the Azure Key Vault instance must be removed if the Azure Function application is deleted.  
 You need to grant the Azure Functions application access to the Azure Key Vault. 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 user-assigned managed identity for the application.	
Create the Azure Functions app with a Premium plan type.	
Create an access policy in Azure Key Vault for the application identity.	➤
Create an SSL certification in Azure Key Vault for the application identity.	➤
Create the Azure Functions app with an App Service plan type.	⬆
Create the Azure Functions app with a Consumption plan type.	⬆
Create a system-assigned managed identity for the application.	

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

Step 1: Create the Azure Functions app with a Consumption plan type. Use the Consumption plan for serverless.  
 Step 2: Create a system-assigned managed identity for the application. Create a system-assigned managed identity for your application.  
 Key Vault references currently only support system-assigned managed identities. User- assigned identities cannot be used.  
 Step 3: Create an access policy in Key Vault for the application identity.  
 Create an access policy in Key Vault for the application identity you created earlier. Enable the "Get" secret permission on this policy. Do not configure the "authorized application" or applicationId settings, as this is not compatible with a managed identity.

**NEW QUESTION 127**

- (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:**

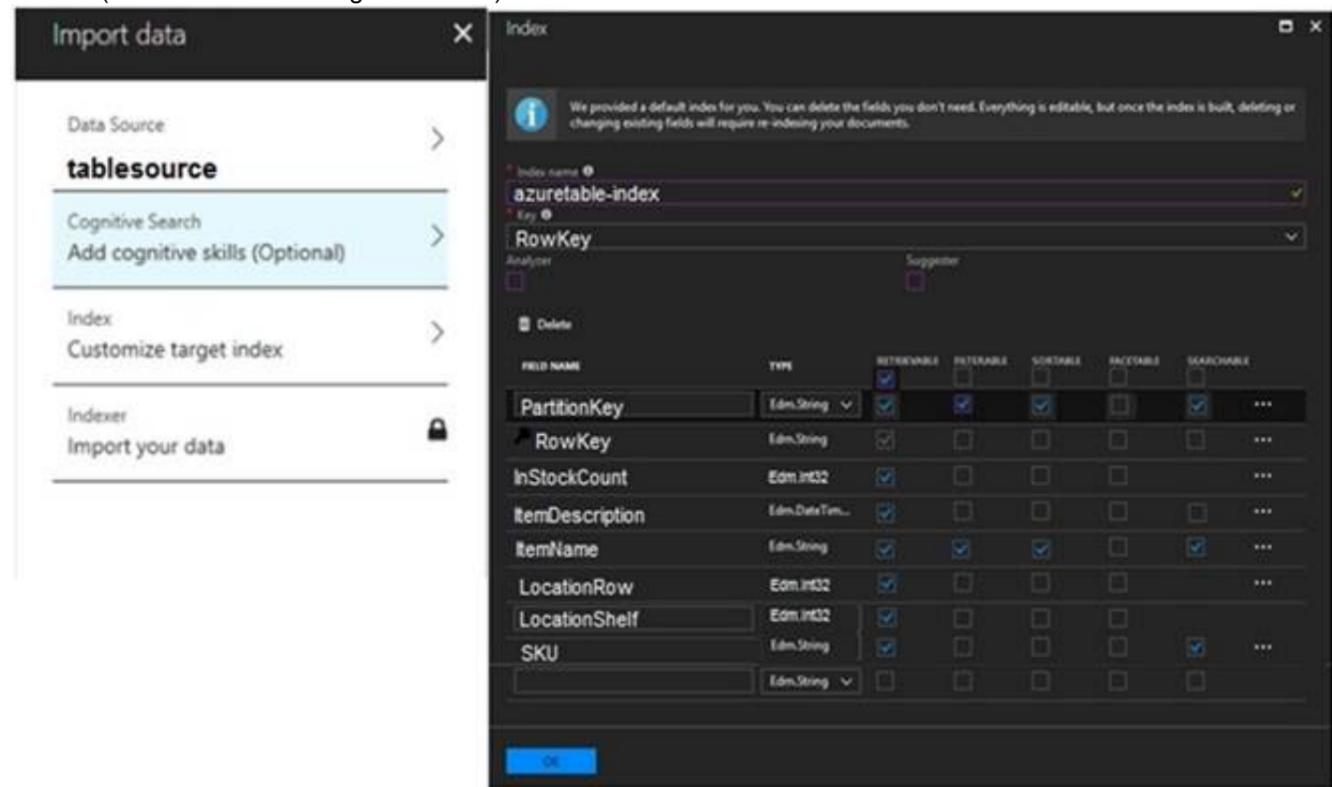
Instead deploy and configure Azure Cache for Redis. Update the web applications. Reference:  
<https://docs.microsoft.com/en-us/azure/architecture/best-practices/caching#managing-concurrency-in-a-cache>

**NEW QUESTION 130**

HOTSPOT - (Topic 8)

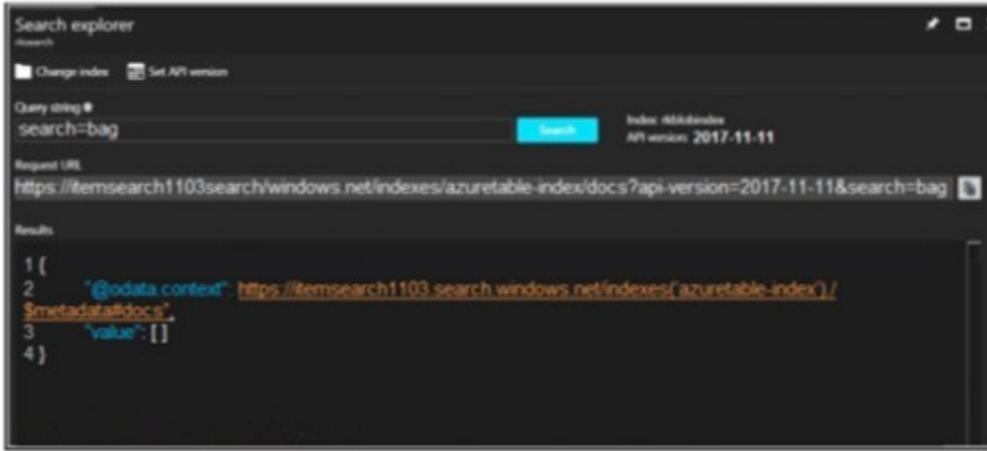
You are validating the configuration of an Azure Search indexer.

The service has been configured with an indexer that uses the Import Data option. The index is configured using options as shown in the Index Configuration exhibit. (Click the Index Configuration tab.)



You use an Azure table as the data source for the import operation. The table contains three records with item inventory data that matches the fields in the Storage data exhibit. These records were imported when the index was created. (Click the Storage Data tab.) When users search with no filter, all three records are displayed.

PartitionKey	RowKey	Timestamp	InStockCount	ItemDescription	ItemName	LocationRow	LocationShelf	SKU
Food	3	2018-08-25T 15:47:29.135Z	32	A box of chocolate candy bars	Choco bar	5	3	123421
Hardware	2	2018-08-25T 15:46:08.400Z	2	A bag of bolts	Bolts	1	4	678904
Hardware	1	2018-08-25T 15:46:41.400Z	20	A box of nails	Nails	2	1	654365



When users search for items by description, Search explorer returns no records. The Search Explorer exhibit shows the query and results for a test. In the test, a user is trying to search for all items in the table that have a description that contains the word bag. (Click the Search Explorer tab.)

You need to resolve the issue.

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

NOTE: Each correct selection is worth one point.

	Yes	No
You can resolve the issue by recreating the search index with the same settings for all fields except ItemDescription. Select the SEARCHABLE option for this field	<input type="radio"/>	<input type="radio"/>
You can resolve the issue by selecting the index, editing the ItemDescription field, and selecting the SEARCHABLE option for the field.	<input type="radio"/>	<input type="radio"/>
You can resolve the issue by running the indexer.	<input type="radio"/>	<input type="radio"/>
You can resolve the issue by changing the query string in Search explorer to <code>bag of</code> to return the correct results	<input type="radio"/>	<input type="radio"/>

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

Box 1: Yes

The ItemDescription field is not searchable.

Box 2: No

The ItemDescription field is not searchable, but we would need to recreate the index.

Box 3: Yes

An indexer in Azure Search is a crawler that extracts searchable data and metadata from an external Azure data source and populates an index based on field-to-field mappings between the index and your data source. This approach is sometimes referred to as a 'pull model' because the service pulls data in without you having to write any code that adds data to an index.

Box 4: No References:

<https://docs.microsoft.com/en-us/azure/search/search-what-is-an-index>

<https://docs.microsoft.com/en-us/azure/search/search-indexer-overview>

**NEW QUESTION 134**

HOTSPOT - (Topic 8)

You need to implement the Azure Function for delivery driver profile information.

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

NOTE: Each correct selection is worth one point.

**Answer Area**

Configuration	Value
Code library	<input type="text" value=""/> <ul style="list-style-type: none"> <li>Microsoft Authentication Library (MSAL)</li> <li>Microsoft Azure Key Vault SDK</li> <li>Azure Identity library</li> </ul>
API	<input type="text" value=""/> <ul style="list-style-type: none"> <li>Microsoft Graph</li> <li>Azure Active Directory Graph</li> <li>Azure Key Vault</li> </ul>

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

Code Library: MSAL API: Microsoft Graph

<https://docs.microsoft.com/en-us/azure/active-directory/develop/msal-overview>

**NEW QUESTION 138**

- (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 140**

- (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 142**

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.



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 147**

HOTSPOT - (Topic 8)

You are developing an Azure Function App by using Visual Studio. The app will process orders input by an Azure Web App. The web app places the order information into Azure Queue Storage.

You need to review the Azure Function App code shown below.

```
public static class OrderProcessor
{
    [FunctionName("ProcessOrders")]
    public static void ProcessOrders([QueueTrigger("incoming-orders")]CloudQueueMessage myQueueItem, [Table("Orders")]ICollector<Order> tableBindings, TraceWriter log)
    {
        log.Info($"Processing Order: {myQueueItem.Id}");
        log.Info($"Queue Insertion Time: {myQueueItem.InsertionTime}");
        log.Info($"Queue Expiration Time: {myQueueItem.ExpirationTime}");
        tableBindings.Add(JsonConvert.DeserializeObject<Order>(myQueueItem.AsString));
    }
    [FunctionName("ProcessOrders-Poison")]
    public static void ProcessFailedOrders([QueueTrigger("incoming-orders-poison")]CloudQueueMessage myQueueItem, TraceWriter log)
    {
        log.Error($"Failed to process order: {myQueueItem.AsString}");
        * * *
    }
}
```

NOTE:Each correct selection is worth one point.

	<b>Yes</b>	<b>No</b>
The code will log the time that the order was processed from the queue.	<input type="radio"/>	<input type="radio"/>
When the ProcessOrders function fails, the function will retry up to five times for a given order, including the first try.	<input type="radio"/>	<input type="radio"/>
When there are multiple orders in the queue, a batch of orders will be retrieved from the queue and the ProcessOrders function will run multiple instances concurrently to process the orders.	<input type="radio"/>	<input type="radio"/>
The ProcessOrders function will output the order to an Orders table in Azure Table Storage.	<input type="radio"/>	<input type="radio"/>

A. Mastered

B. Not Mastered

**Answer: A**

**Explanation:**

Box 1: No

ExpirationTime - The time that the message expires.

InsertionTime - The time that the message was added to the queue.

Box 2: Yes

maxDequeueCount - The number of times to try processing a message before moving it to the poison queue. Default value is 5.

Box 3: Yes

When there are multiple queue messages waiting, the queue trigger retrieves a batch of messages and invokes function instances concurrently to process them.

By default, the batch size is 16. When the number being processed gets down to 8, the runtime gets another batch and starts processing those messages. So the maximum number of concurrent messages being processed per function on one virtual machine (VM) is 24.

Box 4: Yes References:

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

**NEW QUESTION 151**

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**
- 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.

**Answer Area**

- 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 152**

DRAG DROP - (Topic 8)

You are implementing an order processing system. A point of sale application publishes orders to topics in an Azure Service Bus queue. The label property for the topic includes the following data:

Property	Description
ShipLocation	the country/region where the order will be shipped
CorrelationId	a priority value for the order
Quantity	a user-defined field that stores the quantity of items in an order
AuditedAt	a user-defined field that records the date an order is audited

The system has the following requirements for subscriptions

Subscription type	Comments
FutureOrders	This subscription is reserved for future use and must not receive any orders.
HighPriorityOrders	Handle all high priority orders and International orders.
InternationalOrders	Handle orders where the country/region is not United States.
HighQuantityOrders	Handle only orders with quantities greater than 100 units.
AllOrders	This subscription is used for auditing purposes. This subscription must receive every single order. AllOrders has an Action defined that updates the AuditedAt property to include the date and time it was received by the subscription.

You need to implement filtering and maximize throughput while evaluating filters. Which filter types should you implement? To answer, drag the appropriate filter types to the correct subscriptions. Each filter 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.

### Filter types

- SQLFilter
- CorrelationFilter
- No Filter

### Answer Area

Subscription	Filter type
FutureOrders	
HighPriorityOrders	
InternationalOrders	
HighQuantityOrders	
AllOrders	

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

FutureOrders: SQLFilter  
 HighPriorityOrders: CorrelationFilter  
 CorrelationID only  
 InternationalOrders: SQLFilter  
 Country NOT USA requires an SQL Filter  
 HighQuantityOrders: SQLFilter

Need to use relational operators so an SQL Filter is needed. AllOrders: No Filter

SQL Filter: SQL Filters - A SqlFilter holds a SQL-like conditional expression that is evaluated in the broker against the arriving messages' user-defined properties and system properties. All system properties must be prefixed with sys. in the conditional expression. The SQL-language subset for filter conditions tests for the existence of properties (EXISTS), as well as for null-values (IS NULL), logical NOT/AND/OR, relational operators, simple numeric arithmetic, and simple text pattern matching with LIKE.

Correlation Filters - A CorrelationFilter holds a set of conditions that are matched against one or more of an arriving message's user and system properties. A common use is to match against the CorrelationId property, but the application can also choose to match against ContentType, Label, MessageId, ReplyTo, ReplyToSessionId, SessionId, To, and any user-defined properties. A match exists when an arriving message's value for a property is equal to the value specified in the correlation filter. For string expressions, the comparison is case-sensitive. When specifying multiple match properties, the filter combines them as a logical AND condition, meaning for the filter to match, all conditions must match.

Boolean filters - The TrueFilter and FalseFilter either cause all arriving messages (true) or none of the arriving messages (false) to be selected for the subscription.

References:

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

**NEW QUESTION 155**

HOTSPOT - (Topic 8)

A company develops a series of mobile games. All games use a single leaderboard service.

You have the following requirements:

- Code should be scalable and allow for growth.
- Each record must consist of a playedId, gameId, score, and time played.
- When users reach a new high score, the system will save the new score using the SaveScore function below.
- Each game is assigned an Id based on the series title.

You have the following code. (Line numbers are included for reference only.)

```

01 public void SaveScore(string gameId, string playerId, int score, long timePlayed)
02 {
03     CloudStorageAccount storageAccount = CloudStorageAccount.Parse(connectionString);
04     CloudTableClient tableClient = storageAccount.CreateCloudTableClient();
05     CloudTable table = tableClient.GetTableReference("scoreTable");
06     table.CreateIfNotExists();
07     var scoreRecord = new PlayerScore(gameId, playerId, score, timePlayed);
08     TableOperation insertOperation = TableOperation.Insert(scoreRecord);
09     table.Execute(insertOperation);
10 }
11 public class PlayerScore : TableEntity
12 {
13     public PlayerScore(string gameId, string playerId, int score, long timePlayed)
14     {
15         this.PartitionKey = gameId;
16         this.RowKey = playerId;
17         Score = score;
18         TimePlayed = timePlayed;
19     }
20     public int Score { get; set; }
21     public long TimePlayed { get; set; }
22 }
    
```

You store customer information in an Azure Cosmos database. The following data already exists in the database:

PartitionKey	RowKey	Email
Harp	Walter	wharp@contoso.com
Smith	Steve	ssmith@contoso.com
Smith	Jeff	jsmith@contoso.com

```
01 CloudTableClient tableClient = account.CreateCloudTableClient();
02 CloudTable table = tableClient.GetTableReference("people");
03 TableQuery<CustomerEntity> query = new TableQuery<CustomerEntity>()
04     .Where(TableQuery.CombineFilters(
05         TableQuery.Generate.And, TableQuery.GenerateFilterCondition(Email, QueryComparisons.Equal, "Smith")
06         TableOperators.And, TableQuery.GenerateFilterCondition(Email, QueryComparisons.Equal,
07         "ssmith@contoso.com")
08     ));
08 await table.ExecuteQuerySegmentedAsync<CustomerEntity>(query, null);
```

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

	Yes	No
The code will work with Cosmos DB.	<input type="radio"/>	<input type="radio"/>
The save score function will update and replace a record if one already exists with the same playerId and gameId.	<input type="radio"/>	<input type="radio"/>
The data for the game will be automatically partitioned.	<input type="radio"/>	<input type="radio"/>
This code will store the values for the gameId and playerId parameters in the database.	<input type="radio"/>	<input type="radio"/>

- A. Mastered
- B. Not Mastered

**Answer: A**

**Explanation:**

Box 1: Yes  
 Code for CosmosDB, example:  
 // Parse the connection string and return a reference to the storage account. CloudStorageAccount storageAccount = CloudStorageAccount.Parse(CloudConfigurationManager.GetSetting("StorageConnectionString"));  
 // Create the table client.  
 CloudTableClient tableClient = storageAccount.CreateCloudTableClient();  
 // Retrieve a reference to the table.  
 CloudTable table = tableClient.GetTableReference("people");  
 // Create the TableOperation object that inserts the customer entity. TableOperation insertOperation = TableOperation.Insert(customer1);

Box 2: No  
 A new record will always be added as TableOperation.Insert is used, instead of TableOperation.InsertOrReplace.

Box 3: No  
 No partition key is used. Box 4: Yes  
 References:  
<https://docs.microsoft.com/en-us/azure/cosmos-db/table-storage-how-to-use-dotnet>

**NEW QUESTION 158**

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. = true );         services.AddMvc();     }     public void Configure (IApplicationBuilder app,         IHostingEnvironment env, ILoggerFactory loggerFactory)     {         loggerFactory.AddApplicationInsights(app, ,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 163**

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 style="border: 1px solid black; padding: 2px;"> <div style="background-color: #f0f0f0; padding: 2px;">▼</div> <div style="padding: 2px;">2</div> <div style="padding: 2px;">4</div> <div style="padding: 2px;">8</div> <div style="padding: 2px;">16</div> </div>
Pricing tier	<div style="border: 1px solid black; padding: 2px;"> <div style="background-color: #f0f0f0; padding: 2px;">▼</div> <div style="padding: 2px;">Isolated</div> <div style="padding: 2px;">Standard</div> <div style="padding: 2px;">Premium</div> <div style="padding: 2px;">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 167**

- (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 Redo 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 in 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 172**

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	Managed identity Always On Managed identity Continuous deployment
Azure App Service pricing tier	Basic Basic Shared Standard

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Answer Area

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

**NEW QUESTION 173**

HOTSPOT - (Topic 8)

You are developing a ticket reservation system for an airline.

The storage solution for the application must meet the following requirements:

- ? Ensure at least 99.99% availability and provide low latency.
- ? Accept reservations event when localized network outages or other unforeseen failures occur.
- ? Process reservations in the exact sequence as reservations are submitted to minimize overbooking or selling the same seat to multiple travelers.
- ? Allow simultaneous and out-of-order reservations with a maximum five-second tolerance window.

You provision a resource group named `airlineResourceGroup` in the Azure South-Central US region.

You need to provision a SQL SPI Cosmos DB account to support the app.

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.

```
resourceGroupName- +airlineResourceGroup'
name- +docdb-airline-reservations'
databaseName- 'docdb-tickets-database'
collectionName- 'docdb-tickets-collection'
consistencyLevel- 

|                  |
|------------------|
| ▼                |
| Strong           |
| Eventual         |
| ConsistentPrefix |
| BoundedStaleness |



az cosmosdb create \
--name $name \



|                                   |
|-----------------------------------|
| ▼                                 |
| --enable-virtual-network true\    |
| --enable-automatic-failover true\ |
| --kind 'GlobalDocumentDB' \       |
| --kind 'MongoDB'\                 |



--resource group $resourceGroupName \
--max interval 5 \



|                                                 |
|-------------------------------------------------|
| ▼                                               |
| --locations 'southcentralus'                    |
| --locations 'eastus'                            |
| --locations'southcentralus=0 eastus=1 westus=2' |
| --locations 'southcentralus=0'                  |



--default-consistency-level - $consistencylevel
```

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

Box 1: BoundedStaleness

Bounded staleness: The reads are guaranteed to honor the consistent-prefix guarantee. The reads might lag behind writes by at most "K" versions (that is, "updates") of an item or by "T" time interval. In other words, when you choose bounded staleness, the "staleness" can be configured in two ways:

The number of versions (K) of the item

The time interval (T) by which the reads might lag behind the writes

**NEW QUESTION 178**

- (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: Enable auto swap for the Testing slot. Deploy the app to the Testing 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 183**

HOTSPOT - (Topic 8)

A company runs an international travel and bookings management service. The company plans to begin offering restaurant bookings. You must develop a solution that uses Azure Search and meets the following requirements:

- Users must be able to search for restaurants by name, description, location, and cuisine.
- Users must be able to narrow the results further by location, cuisine, rating, and family- friendliness.
- All words in descriptions must be included in searches. You need to add annotations to the restaurant class.

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.

```
[SerializePropertyNameAsCamelCase]
public class Restaurant
{
    [Key, IsFilterable]
    public int RestaurantId { get; set; }
    [IsSearchable, IsFilterable, IsSortable]
    public string Name { get; set; }

    [IsSearchable.IsFilterable.IsSortable, IsFacetable]
    [IsFilterable.IsFacetable, Required]
    [IsSearchable]
    [IsSearchable, Required]
    public string location { get; set; }
    public string Phone { get; set; }

    [Required]
    [IsSearchable]
    [IsFilterable, IsFacetable, Required]
    [IsFilterable, IsFacetable, IsSortable]
    public string Description { get; set; }

    [IsFilterable, IsSortable, IsSearchable]
    [IsFilterable, IsSortable, IsFacetable]
    [IsFilterable, IsSortable, Key]
    [IsFilterable, IsSortable, IsSearchable, Required]
    public double Rating { get; set; }

    [IsSearchable, IsFilterable, IsFacetable]
    [IsFilterable, IsSortable, Key]
    [IsFilterable, IsSortable, IsSearchable]
    [IsFilterable, IsSortable, Key, Required]
    public List<string> Cuisines { get; set; }

    [IsFilterable, IsSortable, Key, Required]
    [IsSearchable, IsSortable, IsFacetable]
    [IsFilterable, IsSortable, Key, IsSearchable]
    [IsFilterable, IsFacetable]
    public bool FamilyFriendly { get; set; }
}
```

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

Box 1: [IsSearchable.IsFilterable.IsSortable,IsFacetable] Location

Users must be able to search for restaurants by name, description, location, and cuisine. Users must be able to narrow the results further by location, cuisine, rating, and family- friendliness.

Box 2: [IsSearchable.IsFilterable.IsSortable,Required] Description

Users must be able to search for restaurants by name, description, location, and cuisine. All words in descriptions must be included in searches.

Box 3: [IsFilterable,IsSortable,IsFaceTable] Rating

Users must be able to narrow the results further by location, cuisine, rating, and family- friendliness.

Box 4: [IsSearchable.IsFilterable,IsFacetable]

Cuisines

Users must be able to search for restaurants by name, description, location, and cuisine. Users must be able to narrow the results further by location, cuisine, rating, and family- friendliness.

Box 5: [IsFilterable,IsFacetable] FamilyFriendly

Users must be able to narrow the results further by location, cuisine, rating, and family- friendliness.

References:

<https://www.henkboelman.com/azure-search-the-basics/>

### NEW QUESTION 187

- (Topic 8)

You develop a serverless application using several Azure Functions. These functions connect to data from within the code.

You want to configure tracing for an Azure Function App project. You need to change configuration settings in the hostjson file. Which tool should you use?

- A. Azure portal
- B. Azure PowerShell
- C. Azure Functions Core Tools (Azure CLI)
- D. Visual Studio

**Answer: A**

#### Explanation:

The function editor built into the Azure portal lets you update the function.json file and the code file for a function. The host.json file, which contains some runtime-specific configurations, is in the root folder of the function app.

References:

<https://docs.microsoft.com/en-us/azure/azure-functions/functions-reference#fileupdate>

### NEW QUESTION 188

- (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 pla
- B. Configure the Function App to use an Azure Blob Storage input trigger.
- C. Use a Consumption pla
- D. Configure the Function App to use an Azure Blob Storage trigger.
- E. Use a Consumption pla
- F. Configure the Function App to use a Timer trigger.
- G. Use an App Service pla
- H. Configure the Function App to use an Azure Blob Storage trigger.
- I. Use a Consumption pla
- 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 192

DRAG DROP - (Topic 8)

You are developing an application to securely transfer data between on-premises file systems and Azure Blob storage. The application stores keys, secrets, and certificates in Azure Key Vault. The application uses the Azure Key Vault APIs.

The application must allow recovery of an accidental deletion of the key vault or key vault objects. Key vault objects must be retained for 90 days after deletion.

You need to protect the key vault and key vault objects.

Which Azure Key Vault feature should you use? To answer, drag the appropriate features to the correct actions. 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						
Access policy							
Purge protection							
Soft delete							
Shared access signature							
	<table border="1"> <thead> <tr> <th>Action</th> <th>Feature</th> </tr> </thead> <tbody> <tr> <td>Enable retention period and accidental deletion.</td> <td>Feature</td> </tr> <tr> <td>Enforce retention period and accidental deletion.</td> <td>Feature</td> </tr> </tbody> </table>	Action	Feature	Enable retention period and accidental deletion.	Feature	Enforce retention period and accidental deletion.	Feature
Action	Feature						
Enable retention period and accidental deletion.	Feature						
Enforce retention period and accidental deletion.	Feature						

- A. Mastered
- B. Not Mastered

**Answer: A**

#### Explanation:

Box 1: Soft delete

When soft-delete is enabled, resources marked as deleted resources are retained for a specified period (90 days by default). The service further provides a mechanism for recovering the deleted object, essentially undoing the deletion.

Box 2: Purge protection

Purge protection is an optional Key Vault behavior and is not enabled by default. Purge protection can only be enabled once soft-delete is enabled.

When purge protection is on, a vault or an object in the deleted state cannot be purged until the retention period has passed. Soft-deleted vaults and objects can still be recovered, ensuring that the retention policy will be followed.

**NEW QUESTION 197**

- (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 Azure Cache for Redis. Update the web applications.

Does the solution meet the goal?

- A. Yes
- B. No

**Answer: A**

**Explanation:**

The session state provider for Azure Cache for Redis enables you to share session information between different instances of an ASP.NET web application.

The same connection can be used by multiple concurrent threads. Redis supports both read and write operations.

The output cache provider for Azure Cache for Redis enables you to save the HTTP responses generated by an ASP.NET web application.

Note: Using the Azure portal, you can also configure the eviction policy of the cache, and control access to the cache by adding users to the roles provided. These roles, which define the operations that members can perform, include Owner, Contributor, and Reader. For example, members of the Owner role have complete control over the cache (including security) and its contents, members of the Contributor role can read and write information in the cache, and members of the Reader role can only retrieve data from the cache.

Reference:

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

**NEW QUESTION 200**

- (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 204**

- (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 message 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 queue create --resource-group fridge-rg --namespace-name fridge-ns --name fridge-q`
- B. `New-AzureRmResourceGroup -Name fridge-rg -Location fridge-loc`
- C. `New-AzureRmServiceBusNamespace -ResourceGroupName fridge-rg -NamespaceName fridge-loc -Location fridge-loc`
- D. `connectionString=$(az servicebus namespace authorization-rule keys list --resource-group fridge-rg --fridge-ns fridge-ns --query primaryConnectionString -output tsv)`

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

**Answer:** A

**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)`

Reference:

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

**NEW QUESTION 206**

- (Topic 8)

You develop an Azure web app. You monitor performance of the web app by using Application Insights. You need to ensure the cost for Application Insights does not exceed a preset budget. What should you do?

- A. Implement ingestion sampling using the Azure portal.
- B. Set a daily cap for the Application Insights instance.
- C. Implement adaptive sampling using the Azure portal.
- D. Implement adaptive sampling using the Application Insights SDK.
- E. Implement ingestion sampling using the Application Insights SDK.

**Answer:** D

**Explanation:**

Sampling is an effective way to reduce charges and stay within your monthly quota.

You can set sampling manually, either in the portal on the Usage and estimated costs page; or in the ASP.NET SDK in the .config file; or in the Java SDK in the ApplicationInsights.xml file, to also reduce the network traffic.

Adaptive sampling is the default for the ASP.NET SDK. Adaptive sampling automatically adjusts to the volume of telemetry that your app sends. It operates automatically in the SDK in your web app so that telemetry traffic on the network is reduced.

References:

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

**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 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: Use an X.509 certificate to authenticate the VM with Azure Resource Manager. Does the solution meet the goal?

- A. Yes
- B. No

**Answer:** B

**Explanation:**

Instead run the Invoke-RestMethod cmdlet to make a request to the local managed identity for Azure resources endpoint.

Reference:

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

**NEW QUESTION 213**

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.	<input type="text" value="Access"/> <input checked="" type="checkbox"/> Access <input checked="" type="checkbox"/> ID <input type="checkbox"/> Refresh <input type="checkbox"/> SAML
Provide XML representations of claims that can be consumed by applications that use WS-Federation.	<input type="text" value="Access"/> <input type="checkbox"/> Access <input type="checkbox"/> ID <input type="checkbox"/> Refresh <input type="checkbox"/> SAML
Provide the web application with long-term access to resources on behalf of users without requiring interaction with those users.	<input type="text" value="Access"/> <input type="checkbox"/> Access <input type="checkbox"/> ID <input type="checkbox"/> Refresh <input type="checkbox"/> SAML
Provide XML representations of claims that can be consumed by applications that use WS-Federation.	<input type="text" value="Access"/> <input type="checkbox"/> Access <input type="checkbox"/> ID <input checked="" type="checkbox"/> Refresh <input type="checkbox"/> SAML

- 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.	<input type="text" value="Access"/> <input checked="" type="checkbox"/> Access <input checked="" type="checkbox"/> ID <input type="checkbox"/> Refresh <input type="checkbox"/> SAML
Provide XML representations of claims that can be consumed by applications that use WS-Federation.	<input type="text" value="Access"/> <input type="checkbox"/> Access <input type="checkbox"/> ID <input type="checkbox"/> Refresh <input type="checkbox"/> SAML
Provide the web application with long-term access to resources on behalf of users without requiring interaction with those users.	<input type="text" value="Access"/> <input type="checkbox"/> Access <input checked="" type="checkbox"/> ID <input checked="" type="checkbox"/> Refresh <input type="checkbox"/> SAML
Provide XML representations of claims that can be consumed by applications that use WS-Federation.	<input type="text" value="Access"/> <input type="checkbox"/> Access <input type="checkbox"/> ID <input checked="" type="checkbox"/> Refresh <input checked="" type="checkbox"/> SAML

**NEW QUESTION 215**

HOTSPOT - (Topic 8)

You are developing an application that use an Azure blob named data to store application data. The application creates blob snapshots to allow application state to be reverted to an earlier state. The Azure storage account has soft deleted enabled.

The system performs the following operations in order:

- The blob is updated
- Snapshot 1 is created.
- Snapshot 2 is created.
- Snapshot 1 is deleted.

A system error then deletes the data blob and all snapshots.

You need to determine which application states can be restored.

What is the restorability of the application data? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Application State	Restorability
Data blob	<div style="border: 1px solid black; padding: 2px;"> <div style="background-color: #ccc; height: 15px; width: 100%;"></div> <div style="border: 1px solid black; padding: 2px;"> <div style="border: 1px solid black; padding: 2px;">Can be restored</div> <div style="border: 1px solid black; padding: 2px;">Cannot be restored</div> </div> </div>
Snapshot 1	<div style="border: 1px solid black; padding: 2px;"> <div style="background-color: #ccc; height: 15px; width: 100%;"></div> <div style="border: 1px solid black; padding: 2px;"> <div style="border: 1px solid black; padding: 2px;">Can be restored</div> <div style="border: 1px solid black; padding: 2px;">Cannot be restored</div> </div> </div>
Snapshot 2	<div style="border: 1px solid black; padding: 2px;"> <div style="background-color: #ccc; height: 15px; width: 100%;"></div> <div style="border: 1px solid black; padding: 2px;"> <div style="border: 1px solid black; padding: 2px;">Can be restored</div> <div style="border: 1px solid black; padding: 2px;">Cannot be restored</div> </div> </div>

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

Box 1: Can be restored

When enabled, soft delete enables you to save and recover your data when blobs or blob snapshots are deleted. This protection extends to blob data that is erased as the result of an overwrite.

Box 2: Cannot be restored It has been deleted.

Box 3: Can be restored It has not been deleted.

References:

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

**NEW QUESTION 219**

HOTSPOT - (Topic 8)

You are building an application that stores sensitive customer data in Azure Blob storage.

The data must be encrypted with a key that is unique for each customer.

If the encryption key has been corrupted it must not be used for encryption. You need to ensure that the blob is encrypted.

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

```

from azure.storage.blob import BlobServiceClient

from azure.storage.blob.aio import BlobType x = BlobType(key, verify)
from azure.storage.blob import BlobSasPermissions x = BlobSasPermissions.from_string(key + verify)
from azure.storage.blob import CustomerProvidedEncryptionKey x = CustomerProvidedEncryptionKey(key, verify)
from azure.core.configuration import Configuration x = Configuration(key, verify)

if x.tag == verify:
    if x.makeitrans == verify:
    if x.EncryptionKeyHash == verify:
    if x.proxy_policy == verify:

bsc = BlobServiceClient("", credential = creds)
c = bsc.get_blob_client("con", Blob)

c.upload_blob(data, pe=x)
c.upload_blob(data, bt=x)
c.upload_blob(data, bsp=x)
c.upload_blob(data, cpk=x)
    
```

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

Answer Area

```

from azure.storage.blob import BlobServiceClient

from azure.storage.blob.aio import BlobType x = BlobType(key, verify)
from azure.storage.blob import BlobSasPermissions x = BlobSasPermissions.from_string(key + verify)
from azure.storage.blob import CustomerProvidedEncryptionKey x = CustomerProvidedEncryptionKey(key, verify)
from azure.core.configuration import Configuration x = Configuration(key, verify)

if x.tag == verify:
    creds = ...
if x.makeitrans == verify:
    if x.EncryptionKeyHash == verify:
        if x.proxy_policy == verify:

bsc = BlobServiceClient("", credential = creds)
c = bsc.get_blob_client("con", blob)

upload_blob(data, pa=x)
upload_blob(data, bf=x)
upload_blob(data, bsp=x)
upload_blob(data, cpk=x)
    
```

**NEW QUESTION 221**

- (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 225**

- (Topic 8)

You are developing an internal website for employees to view sensitive data. The website uses Azure Active Directory (AAD) for authentication. You need to implement multifactor authentication for the website.

What should you do? Each correct answer presents part of the solution. NOTE: Each correct selection is worth one point.

- A. In Azure AD, create a new conditional access policy.
- B. In Azure AD, enable application proxy.
- C. Configure the website to use Azure AD B2C.
- D. In Azure AD conditional access, enable the baseline policy.
- E. Upgrade to Azure AD Premium.

**Answer:** AE

**Explanation:**

References:

<https://docs.microsoft.com/en-us/azure/active-directory/authentication/howto-mfa-getstarted>

**NEW QUESTION 226**

- (Topic 8)

You develop and deploy an ASP.NET Core application that connects to 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 231

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/weapp"
$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 232

- (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: Configure the app to use an App Service hosting plan and enable the Always On setting.  
 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 236

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 style="border: 1px solid #ccc; padding: 5px;"> <div style="border-bottom: 1px solid #ccc; padding-bottom: 2px;">▼</div> <p>Basic</p> <p>Standard</p> <p>Premium</p> </div>
Access control (IAM) level	<div style="border: 1px solid #ccc; padding: 5px;"> <div style="border-bottom: 1px solid #ccc; padding-bottom: 2px;">▼</div> <p>Contributor</p> <p>Data Receiver</p> <p>Data Sender</p> <p>Data Owner</p> </div>

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

Configuration	Value
Tier	<div style="border: 1px solid #ccc; padding: 5px;"> <div style="border-bottom: 1px solid #ccc; padding-bottom: 2px;">▼</div> <p>Basic</p> <p>Standard</p> <p>Premium</p> </div>
Access control (IAM) level	<div style="border: 1px solid #ccc; padding: 5px;"> <div style="border-bottom: 1px solid #ccc; padding-bottom: 2px;">▼</div> <p>Contributor</p> <p>Data Receiver</p> <p>Data Sender</p> <p>Data Owner</p> </div>

**NEW QUESTION 241**

HOTSPOT - (Topic 8)

You develop a web app that interacts with Azure Active Directory (Azure AD) groups by using Microsoft Graph. You build a web page that shows all Azure AD groups that are not of the type 'Unified'. You need to build the Microsoft Graph query for the page. How should you complete the query? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

**Answer Area**

https://graph.microsoft.com/v1.0/groups?  =

- \$count=true
- \$stop=true
- \$count=true
- \$filter=nested
- \$consistencylevel=eventual

- filter
- filter
- search
- contains

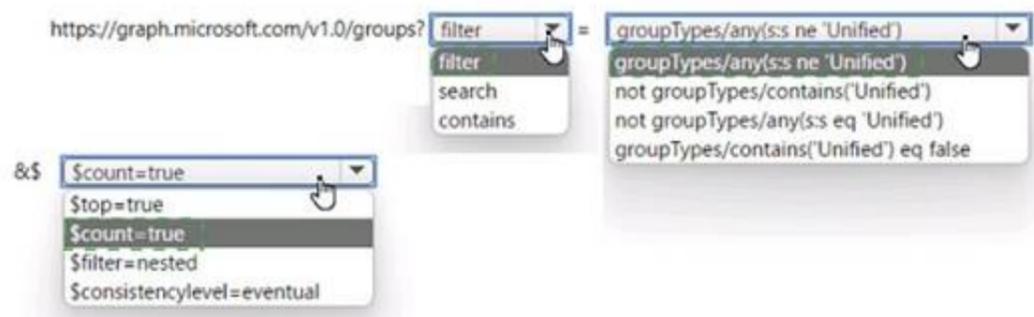
- groupTypes/any(s:s ne 'Unified')
- groupTypes/any(s:s ne 'Unified')
- not groupTypes/contains('Unified')
- not groupTypes/any(s:s eq 'Unified')
- groupTypes/contains('Unified') eq false

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

Answer Area



**NEW QUESTION 242**

- (Topic 8)

You are developing applications for a company. You plan to host the applications on Azure App Services.

The company has the following requirements:

- ? Every five minutes verify that the websites are responsive.
- ? Verify that the websites respond within a specified time threshold. Dependent requests such as images and JavaScript files must load properly.
- ? Generate alerts if a website is experiencing issues.
- ? If a website fails to load, the system must attempt to reload the site three more times.

You need to implement this process with the least amount of effort. What should you do?

D18912E1457D5D1DDCDBD40AB3BF70D5D

- A. Create a Selenium web test and configure it to run from your workstation as a scheduled task.
- B. Set up a URL ping test to query the home page.
- C. Create an Azure function to query the home page.
- D. Create a multi-step web test to query the home page.
- E. Create a Custom Track Availability Test to query the home page.

**Answer: D**

**Explanation:**

You can monitor a recorded sequence of URLs and interactions with a website via multi- step web tests.

Reference:

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

**NEW QUESTION 244**

- (Topic 8)

You develop Azure solutions. A .NET application needs to receive a message each time an Azure virtual machine finishes processing data. The messages must NOT persist after being processed by the receiving application.

You need to implement the .NET object that will receive the messages. Which object should you use?

- A. QueueClient
- B. SubscriptionClient
- C. TopicClient
- D. CloudQueueClient

**Answer: A**

**Explanation:**

A queue allows processing of a message by a single consumer. Need a CloudQueueClient to access the Azure VM.

Reference:

<https://docs.microsoft.com/en-us/azure/service-bus-messaging/service-bus-queues-topics-subscriptions>

**NEW QUESTION 245**

DRAG DROP - (Topic 8)

You are creating a script that will run a large workload on an Azure Batch pool. Resources will be reused and do not need to be cleaned up after use.

You have the following parameters:

Parameter name	Description
\$script	the script that will run across the batch pool
\$image	the image that pool worker processes will use
\$sku	the node agent SKU Id
\$numberOfJobs	the number of jobs to run

You need to write an Azure CLI script that will create the jobs, tasks, and the pool.

In which order should you arrange the commands to develop the solution? To answer, move the appropriate commands from the list of command segments to the answer area and arrange them in the correct order.

Command segments	Answer Area
<pre>az batch pool create --id mypool --vm-size Standard_A1_v2 --target-dedicated-nodes 2 --image \$image --node-agent-sku-id \$sku</pre>	
<pre>az batch job create --id myjob --pool-id mypool</pre>	⬅
<pre>for i in {1..\$numberOfJobs} do</pre>	➡
<pre>az batch task create --task-id mytask\$i --job-id myjob --command-line \$script</pre>	⬆

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

Step 1: az batch pool create  
 # Create a new Linux pool with a virtual machine configuration. az batch pool create \  
 --id mypool \  
 --vm-size Standard\_A1 \  
 --target-dedicated 2 \  
 --image canonical:ubuntu:16.04-LTS \  
 --node-agent-sku-id "batch.node.ubuntu 16.04"  
 Step 2: az batch job create  
 # Create a new job to encapsulate the tasks that are added. az batch job create \  
 --id myjob \  
 --pool-id mypool  
 Step 3: az batch task create  
 # Add tasks to the job. Here the task is a basic shell command. az batch task create \  
 --job-id myjob \  
 --task-id task1 \  
 --command-line "/bin/bash -c 'printenv AZ\_BATCH\_TASK\_WORKING\_DIR'"  
 Step 4: for i in {1..\$numberOfJobs} do  
 References:  
<https://docs.microsoft.com/bs-latn-ba/azure/batch/scripts/batch-cli-sample-run-job>

**NEW QUESTION 246**

- (Topic 8)  
 You develop a solution that uses an Azure SQL Database to store user information for a mobile app. The app stores sensitive information about users. You need to hide sensitive information from developers that query the data for the mobile app. Which three items must you identify when configuring dynamic data masking? Each correct answer presents a part of the solution.  
 NOTE: Each correct selection is worth one point.

- A. Column
- B. Table
- C. Trigger
- D. Index
- E. Schema

**Answer:** ABE

**Explanation:**

In the Dynamic Data Masking configuration page, you may see some database columns that the recommendations engine has flagged for masking. In order to accept the recommendations, just click Add Mask for one or more columns and a mask is created based on the default type for this column. You can change the masking function by clicking on the masking rule and editing the masking field format to a different format of your choice.

**Dynamic Data Masking**  
demo\_database

Save Discard Add Mask

Downlevel clients require the use of Security Enabled Connection Strings.

**Masking Rules**

MASK NAME MASK FUNCTION

You haven't created any masking rules.

SQL users excluded from masking (administrators are always excluded)

SQL users excluded from masking (administrators are always excluded)

**Recommended fields to mask**

SCHEMA	TABLE	COLUMN	
SalesLT	Customer	FirstName	ADD MASK
SalesLT	Customer	LastName	ADD MASK
SalesLT	Customer	EmailAddress	ADD MASK
SalesLT	Customer	Phone	ADD MASK
SalesLT	CustomerAddress	AddressID	ADD MASK

References:  
<https://docs.microsoft.com/en-us/azure/sql-database/sql-database-dynamic-data-masking-get-started-portal>

**NEW QUESTION 247**

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	Answer Area		
	API	Permission	Type
client_id	Azure Storage	Setting	Setting
delegated	Microsoft Graph	User.Read	Setting
profile			
application			
user_impersonation			

- 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 249**

- (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 solution that will be deployed to an Azure Kubernetes Service (AKS) cluster. The solution will include a custom VNet, Azure Container Registry images, and an Azure Storage account.

The solution must allow dynamic creation and management of all Azure resources within the AKS cluster.

You need to configure an AKS cluster for use with the Azure APIs.

Solution: Enable the Azure Policy Add-on for Kubernetes to connect the Azure Policy service to the GateKeeper admission controller for the AKS cluster. Apply a built-in policy to the cluster.

Does the solution meet the goal?

- A. Yes
- B. No

**Answer:** B

**Explanation:**

Instead create an AKS cluster that supports network policy. Create and apply a network to allow traffic only from within a defined namespace

References:

<https://docs.microsoft.com/en-us/azure/aks/use-network-policies>

**NEW QUESTION 254**

HOTSPOT - (Topic 8)

You are developing a content management application for technical manuals. The application is deployed as an Azure Static Web app.

Authenticated users can view pages under /manuals but only contributors can access the page /manuals/new.html.

You need to configure the routing for the web app.

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

NOTE: Each correct selection is worth one point.

**Answer Area**

```

"routes": [
  {
    "route": "/manuals/new.html",
    "allowedRoles": [
      "/manuals*",
      "contributors",
      "authenticated",
      "/manuals/new.html"
    ]
  }
]

"allowedRoles": [
  {
    "route": "/manuals/new.html",
    "allowedRoles": [
      "/manuals*",
      "contributors",
      "authenticated",
      "/manuals/new.html"
    ]
  }
]

"allowedRoles": [
  {
    "route": "/manuals*",
    "allowedRoles": [
      "/manuals*",
      "contributors",
      "authenticated",
      "/manuals/new.html"
    ]
  }
]

```

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

Answer Area

```

"routes": [
  {
    "route": "/manuals/new.html",
    "allowedRoles": [
      "contributors",
      "authenticated"
    ]
  },
  {
    "route": "/manuals*",
    "allowedRoles": [
      "contributors",
      "authenticated"
    ]
  }
]

```

**NEW QUESTION 259**

- (Topic 8)

You are developing an Azure App Service web app.

The web app must securely store session information in Azure Redis Cache. You need to connect the web app to Azure Redis Cache.

Which three Azure Redis Cache properties should you use? Each correct answer presents part of the solution.

Each correct selection is worth one point.

- A. SSL port
- B. Subscription name
- C. Location
- D. Host name
- E. Access key
- F. Subscription id

**Answer:** ACD

**Explanation:**

<https://learn.microsoft.com/en-us/azure/azure-cache-for-redis/cache-web-app-howto>

**NEW QUESTION 262**

- (Topic 8)

You are developing an Azure function that connects to an Azure SQL Database instance. The function is triggered by an Azure Storage queue.

You receive reports of numerous System.InvalidOperationExceptions with the following message: "Timeout expired. The timeout period elapsed prior to obtaining a connection from the pool. This may have occurred because all pooled connections were in use and max pool size was reached."

You need to prevent the exception. What should you do?

- A. In the host.json file, decrease the value of thebatchSizeoption
- B. Convert the trigger to Azure Event Hub
- C. Convert the Azure Function to the Premium plan
- D. In the function.json file, change the value of thetypeoption toqueueScaling

**Answer:** A

**Explanation:**

With the Premium plan the max outbound connections per instance is unbounded compared to the 600 active (1200 total) in a Consumption plan.

Note: The number of available connections is limited partly because a function app runs in a sandbox environment. One of the restrictions that the sandbox imposes on your code is a limit on the number of outbound connections, which is currently 600 active (1,200 total) connections per instance. When you reach this limit, the functions runtime writes the following message to the logs: Host thresholds exceeded: Connections.

Reference:  
<https://docs.microsoft.com/en-us/azure/azure-functions/manage-connections> <https://docs.microsoft.com/en-us/azure/azure-functions/functions-scale#service-limits>

**NEW QUESTION 267**

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	Answer area
Encrypt the on-premises VHD by using BitLocker without a TPM. Upload the VM to Azure Storage.	
Run the Azure PowerShell command <code>Set-AzureRmVMDiskEncryptionExtension</code> .	
Run the Azure PowerShell command <code>Set-AzureRmVMOsdisk</code> .	
Encrypt the on-premises VHD by using BitLocker with a TPM. Upload the VM to Azure Storage.	
Run the Azure PowerShell command <code>New-AzureRmVM</code> .	

- 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-AzureRmVMOsdisk`

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

Example:

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

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

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

```
$vm = Set-AzureRmVMOsdisk -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-azure-vm>

**NEW QUESTION 269**

- (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: Create an Azure Function app that uses the Consumption hosting model and that is triggered from the blob upload.

Does the solution meet the goal?

- A. Yes
- B. No

**Answer:** A

**Explanation:**

In the Consumption hosting plan, resources are added dynamically as required by your functions.

Reference:

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

**NEW QUESTION 270**

HOTSPOT - (Topic 8)

You have a single page application (SPA) web application that manages information based on data returned by Microsoft Graph from another company's Azure Active Directory (Azure AD) instance.

Users must be able to authenticate and access Microsoft Graph by using their own company's Azure AD instance.

You need to configure the application manifest for the app registration.

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

NOTE: Each correct selection is worth one point.

```

{
  "oauth2AllowImplicitFlow":  ,
  "requiredResourceAccess":  ,
  "resourceAppId": "00000003-0000-0000-c000-000000000000",
  "resourceAccess": [
    {
      "id": "24a6cdd6-fab1-4aaf-91b8-3cc8225e90d0",
      "type": "Scope"
    }
  ],
  "signInAudience": 
}

```

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

Box 1: true

The `oauth2AllowImplicitFlow` attribute Specifies whether this web app can request OAuth2.0 implicit flow access tokens. The default is false. This flag is used for browser- based apps, like JavaScript single-page apps.

In implicit flow, the app receives tokens directly from the Azure Active Directory (Azure AD) authorize endpoint, without any server-to-server exchange. All authentication logic and session handling is done entirely in the JavaScript client with either a page redirect or a pop-up box.

Box 2: requiredResourceAccess

With dynamic consent, `requiredResourceAccess` drives the admin consent experience and the user consent experience for users who are using static consent. However, this parameter doesn't drive the user consent experience for the general case.

`resourceAppId` is the unique identifier for the resource that the app requires access to. This value should be equal to the `appid` declared on the target resource app.

`resourceAccess` is an array that lists the OAuth2.0 permission scopes and app roles that the app requires from the specified resource. Contains the `id` and `type` values of the specified resources.

Example: "requiredResourceAccess": [

```

{
  "resourceAppId": "00000002-0000-0000-c000-000000000000",
  "resourceAccess": [
    {
      "id": "311a71cc-e848-46a1-bdf8-97ff7156d8e6", "type": "Scope"
    }
  ]
}
],

```

Box 3: AzureADMyOrg

The `signInAudience` attribute specifies what Microsoft accounts are supported for the current application. Supported values are:

AzureADMyOrg - Users with a Microsoft work or school account in my organization's Azure AD tenant (for example, single tenant)

AzureADMultipleOrgs - Users with a Microsoft work or school account in any organization's Azure AD tenant (for example, multi-tenant)

AzureADandPersonalMicrosoftAccount - Users with a personal Microsoft account, or a work or school account in any organization's Azure AD tenant

**NEW QUESTION 273**

- (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 274**

HOTSPOT - (Topic 8)

You develop and deploy a web app to Azure App service. The web app allows users to authenticate by using social identity providers through the Azure B2C service. All user profile information is stored in Azure B2C.

You must update the web app to display common user properties from Azure B2C to include the following information:

- ? Email address
- ? Job title
- ? First name
- ? Last name
- ? Office Location

You need to implement the user properties in the web app.

**Requirement**

API to access user properties

**Value**

Microsoft Graph  
 Azure AD Graph  
 Azure Key Vault  
 Azure AD entitlement management

Code library to interface to Azure AD B2C

Microsoft Authentication Library (MSAL)  
 Microsoft Azure Key Vault SDK  
 Azure Identity library

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

**Requirement**

API to access user properties

**Value**

Microsoft Graph  
 Azure AD Graph  
 Azure Key Vault  
 Azure AD entitlement management

Code library to interface to Azure AD B2C

Microsoft Authentication Library (MSAL)  
 Microsoft Azure Key Vault SDK  
 Azure Identity library

**NEW QUESTION 279**

- (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 281**

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 283**

HOTSPOT - (Topic 8)

You are developing an app that manages users for a video game. You plan to store the region, email address, and phone number for the player. Some players may not have a phone number. The player's region will be used to load-balance data.

Data for the app must be stored in Azure Table Storage.

You need to develop code to retrieve data for an individual player.

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

NOTE: Each correct selection is worth one point.

```
public class PlayerEntity : TableEntity
{
    public PlayerEntity()
    {
    }
    public PlayerEntity(string region, string email)
    {
        PartitionKey =  ;
        RowKey=  ;
    }
    public string Phone { get; set; }
}
public class Player
{
    protected PlayerEntity player;
    async void GetPlayer(string cs, )
    {
        
        
        
        
        
        
        
        
        
        
        
        
        player=data.Result as PlayerEntity;
    }
}
```

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

Box 1: region

The player's region will be used to load-balance data. Choosing the PartitionKey.

The core of any table's design is based on its scalability, the queries used to access it, and storage operation requirements. The PartitionKey values you choose will dictate how a table will be partitioned and the type of queries that can be used. Storage operations, in particular inserts, can also affect your choice of PartitionKey values.

Box 2: email

Not phone number some players may not have a phone number. Box 3: CloudTable

Box 4 : TableOperation query =..

Box 5: TableResult

References:

<https://docs.microsoft.com/en-us/rest/api/storageservices/designing-a-scalable-partitioning-strategy-for-azure-table-storage>

**NEW QUESTION 285**

.....

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