

Exam Questions AZ-203

Developing Solutions for Microsoft Azure

<https://www.2passeasy.com/dumps/AZ-203/>



NEW QUESTION 1

Create a DataContainer that contains the documents which must be added.

- A. Mastered
- B. Not Mastered

Answer: A

NEW QUESTION 2

Create a DataSource instance and set its Container property to the DataContainer.

- A. Mastered
- B. Not Mastered

Answer: A

NEW QUESTION 3

HOTSPOT

You are developing a data storage solution for a social networking app.

The solution requires a mobile app that stores user information using Azure Table Storage.

You need to develop code that can insert multiple sets of user information.

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

NOTE: Each correct selection is worth one point.

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

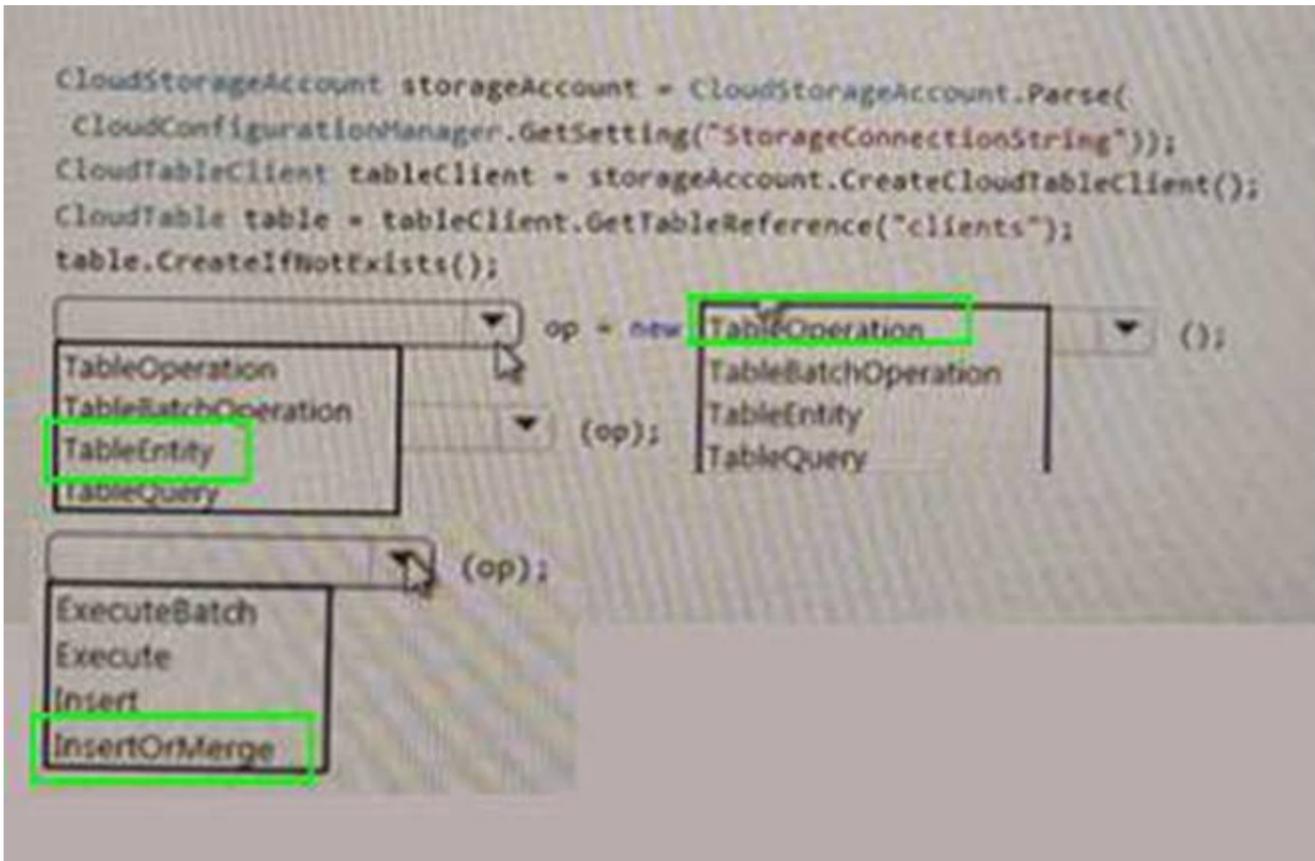
The hot spot interface shows the following options:

- op = new TableOperation (op);
- TableBatchOperation
- TableEntity
- TableQuery
- ExecuteBatch
- Execute
- Insert
- InsertOrMerge

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:



NEW QUESTION 4

HOTSPOT

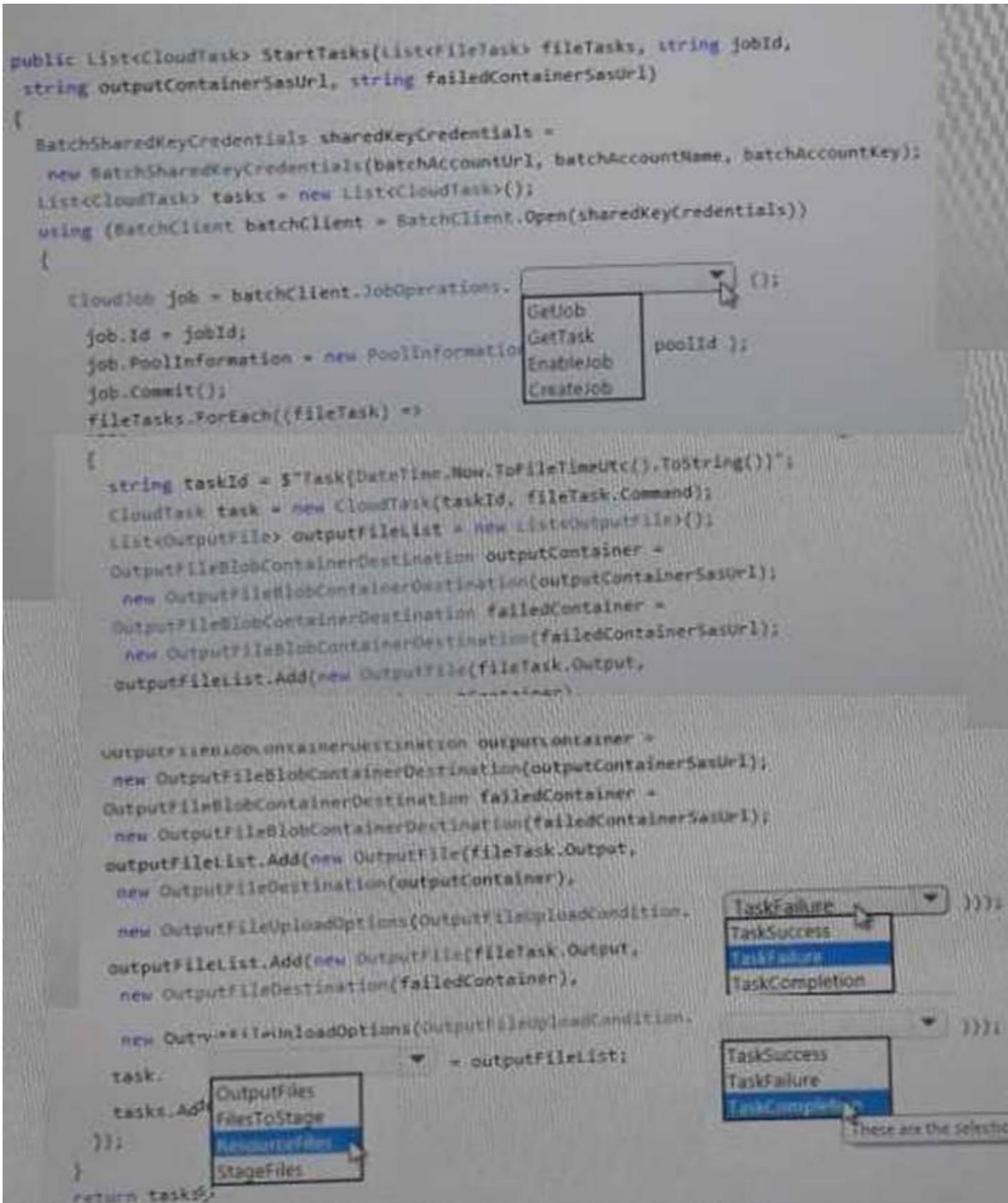
You have an Azure Batch project that processes and converts files and stores the files in Azure storage. You are developing a function to start the batch job. You add the following parameters to the function:

Parameter name	Description
fileTasks	a list of tasks to be run
jobId	the identifier that must be assigned to the job
outputContainerSasUrl	a storage SAS URL to store successfully converted files
failedContainerSasUrl	a storage SAS URL to store copies of files that failed to convert.

You must ensure that converted files are placed in the container referenced by the outputContainerSasUrl parameter. Files which fail to convert are placed in the container referenced by the failedContainerSasUrl parameter.

You need to ensure the files are correctly processed.

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



- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

- EnableJob
- TaskFailure
- Taskcompletion
- ResourceFiles

NEW QUESTION 5

DRAG DROP

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

Spikes in traffic have caused increases in page load times.

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

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

Actions

Answer Area

- Enable autoscaling on the web app.
- Configure a Scale condition.
- Configure the web app to the Standard App Service tier.
- Configure the web app to the Premium App Service tier.
- Switch to an Azure App Services consumption plan.
- Add a Scale rule.



- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Step 1: Configure the web app to the Standard App Service Tier
 The Standard tier supports auto-scaling, and we should minimize the cost. Step 2: Enable autoscaling on the web app
 First enable autoscale Step 3: Add a scale rule
 Step 4: Add a Scale condidation References:
<https://docs.microsoft.com/en-us/azure/monitoring-and-diagnostics/monitoring- autoscale-get-started>
<https://azure.microsoft.com/en-us/pricing/details/app-service/plans/>

NEW QUESTION 6

DRAG DROP

You are developing an ASP.NET Core Web API web service that uses Azure Application Insights to monitor performance and trade 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 alt. 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 7

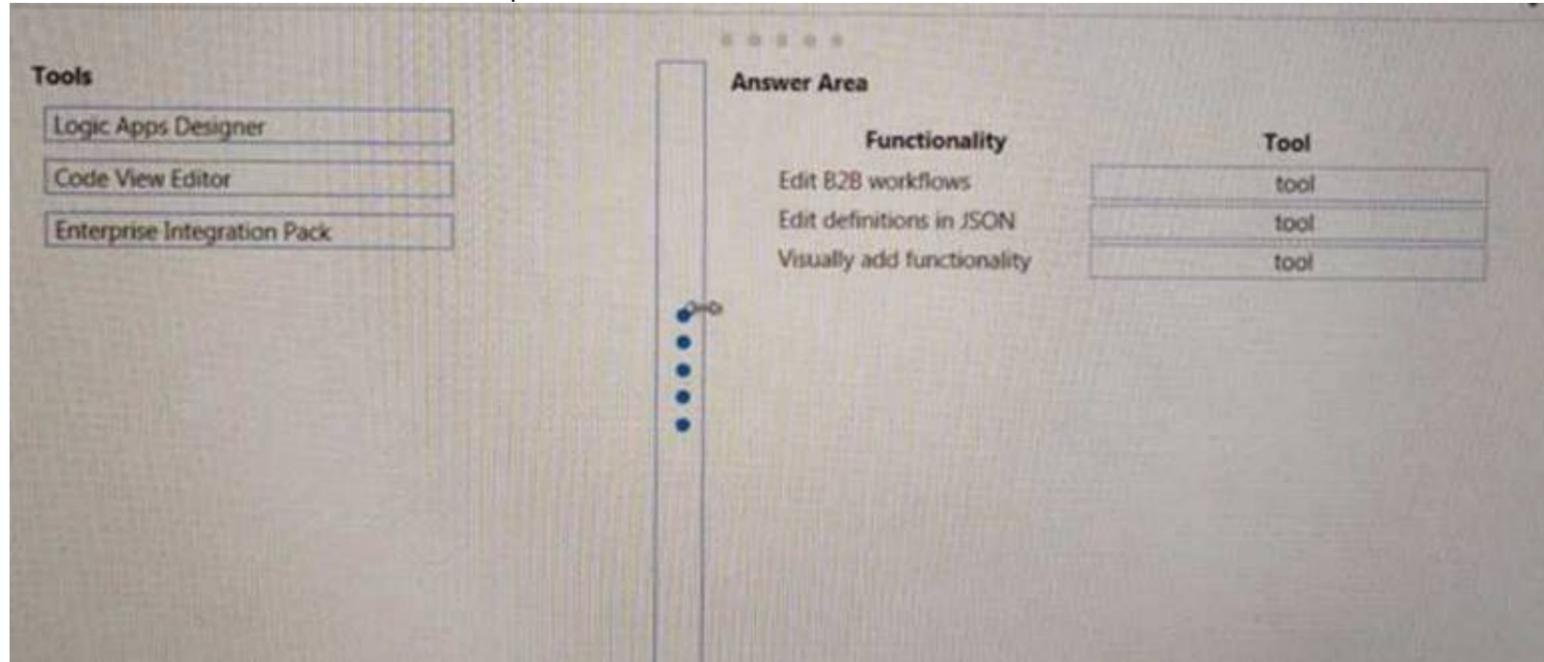
DRAG DROP

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 coned 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.

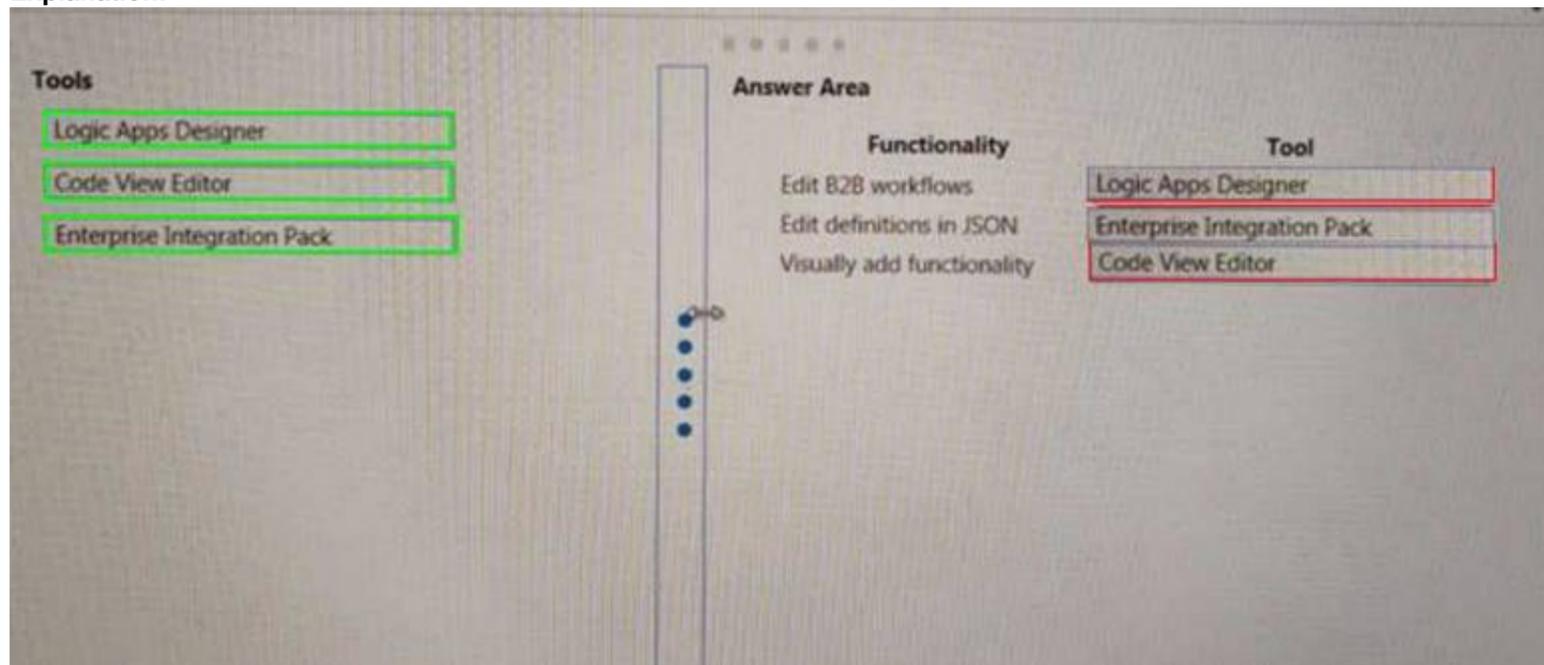
NOTE: Each correct selection is worth one point.



- A. Mastered
- B. Not Mastered

Answer: A

Explanation:



NEW QUESTION 8

HOTSPOT

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

This function is maintained by your company.

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

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

NOTE: Each correct selection is worth one point

Authentication

Type

WebHook event delivery

▼
SAS tokens
Key authentication
JWT token

Topic publishing

▼
ValidationCode handshake
ValidationURL handshake
Management Access Control

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Box 1: SAS tokens

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

In this case we need the expiration time provided by SAS tokens. Box 2: ValidationCode handshake

Event Grid supports two ways of validating the subscription:

ValidationCode handshake (programmatic) and ValidationURL handshake (manual).

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

ValidationURL handshake (manual): In certain cases, you can't access the source code of the endpoint to implement the ValidationCode handshake. For example, if you use a third-party service (like Zapier or IFTTT), you can't programmatically respond with the validation code.

References:

<https://docs.microsoft.com/en-us/azure/event-grid/security-authentication>

NEW QUESTION 9

DRAG DROP

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

FutureOrders

HighPriorityOrders

InternationalOrders

HighQuantityOrders

AllOrders

Filter type

- 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 10

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: AC

NEW QUESTION 10

You are developing a project management service by using ASP.NET. The service hosts conversations, files, to-do lists, and a calendar that users can interact with at any time.

The application uses Azure Search for allowing users to search for keywords in the project data.

You need to implement code that creates the object which is used to create indexes in the Azure Search service.

Which two objects should you use? Each correct answer presents part of the solution.

NOTE: Each correct selection is worth one point.

- A. SearchService
- B. SearchIndexClient
- C. SearchServiceClient
- D. SearchCredentials

Answer: CD

NEW QUESTION 11

You have an Azure App Services Web App. Azure SQL Database instance. Azure Storage Account and an Azure Redis Cache instance in a resource group.

A developer must be able to publish code to the web app. You must grant the developer the Contributor role to the web app

You need to grant the role.
 What two commands can you use? Each correct answer presents a complete solution.
 NOTE: Each correct selection is worth one point.

- A. New-AzureRmRoleAssignment
- B. az role assignment create
- C. az role definition create
- D. New-AzureRmRoleDefinition

Answer: C

NEW QUESTION 13

You are developing a mobile instant messaging app for a company. The mobile app must meet the following requirements:

- Support offline data sync.
- Update the latest messages during normal sync cycles. You need to implement Offline Data Sync.

Which two actions should you perform? Each correct answer presents part of the solution.

NOTE: Each correct selection is worth one point.

- A. Retrieve records from Offline Data Sync on every call to the PullAsync method.
- B. Retrieve records from Offline Data Sync using an Incremental Sync.
- C. Push records to Offline Data Sync using an Incremental Sync.
- D. Return the updatedAt column from the Mobile Service Backend and implement sorting by using the column.
- E. Return the updatedAt column from the Mobile Service Backend and implement sorting by the message id.

Answer: BD

NEW QUESTION 17

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: C

NEW QUESTION 20

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 complete the source code of the subscription client.
 What should you do?

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

Answer: D

NEW QUESTION 21

DRAG DROP

You develop a gateway solution for a public facing news API.
 The news API back end is implemented as a RESTful service and hosted in an Azure App Service instance.
 You need to configure back-end authentication for the API Management service instance.
 Which target and gateway credential type should you use? To answer, drag the appropriate values to the correct parameters. Each value may be used once, more than once, or not at all. You may need to drag the split bar between panes or scroll to view content.
 NOTE: Each correct selection is worth one point.

Azure Resource	Configuration parameter	
HTTP(s) endpoint		Target
Basic		Gateway credentials
Client cert		
		Value
		value
		value

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Configuration parameter	Value
Target	Azure Resource
Gateway credentials	HTTP(s) endpoint

NEW QUESTION 25

DRAG DROP

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

- 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.

Answer area

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Actions

- 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.

Answer area

Create a single Service Bus topic.

Create a Service Bus Namespace for each restaurant for which a driver can receive messages.

Create a Service Bus topic for each restaurant for which a driver can receive messages.

NEW QUESTION 26

HOTSPOT

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.

```

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

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

```

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

NEW QUESTION 28

HOTSPOT

A company is developing a gaming platform. Users can join teams to play online and see leaderboards that include player statistics. The solution includes an entity named Team.

You plan to implement an Azure Redis Cache instance to improve the efficiency of data operations for entities that rarely change.

You need to invalidate the cache when team data is changed.

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

NOTE: Each correct selection is worth one point.

Answer Area

```
void ClearCachedTeams()
{
    IDatabase cache = Connection.GetDatabase();
    ICache cache = Connection.GetDatabase();
    cache.KeyDelete("teams");
    cache.StringSet("teams", "");
    cache.ValueDelete("teams");
    cache.StringGet("teams", "");
}
```

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Answer Area

```
void ClearCachedTeams()
{
    IDatabase cache = Connection.GetDatabase();
    ICache cache = Connection.GetDatabase();
    cache.KeyDelete("teams");
    cache.StringSet("teams", "");
    cache.ValueDelete("teams");
    cache.StringGet("teams", "");
}
```

NEW QUESTION 32

You are developing an ASP.NET Core Web API web service. The web service uses Azure Application Insights for all telemetry and dependency tracking. The web service reads and writes data to a database other than Microsoft SQL Server.

You need to ensure that dependency tracking works for calls to the third-party database.

Which two Dependency Telemetry properties should you store in the database? Each correct answer presents part of the solution.

NOTE: Each correct selection is worth one point.

- A. Telemetry.Context.Operation.Id
- B. Telemetry.Context.Cloud.RoleInstance
- C. Telemetry.Id
- D. Telemetry.ContextSession.Id
- E. Telemetry.Name

Answer: BC

NEW QUESTION 33

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: CE

NEW QUESTION 37
HOTSPOT

Your company is migrating applications to Azure. The IT department must allow internal developers to communicate with Microsoft support. The service agents of the IT department must only have view resources and create support ticket permissions to all subscriptions. A new custom role must be created by reusing a default role definition and changing the permissions. You need to create the custom role. To answer, select the appropriate options in the answer area. NOTE: Each correct selection is worth one point.

Item	Value
Powershell command	<pre>Get-AzureRmRoleDefinition -Name "Reader" ConvertTo-Json Out-File C:\SupportRole.json Get-AzureRmRoleDefinition -Name "Operator" ConvertTo-Json Out-File C:\SupportRole.json Set-AzureRmRoleDefinition -Name "Reader" Input-File C:\SupportRole.json Set-AzureRmRoleDefinition Input-File C:\SupportRole.json</pre>
Actions section	<pre>"/read","Microsoft.Support/" "/read" "/","Microsoft.Support/"</pre>

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Item	Value
Powershell command	<pre>Get-AzureRmRoleDefinition -Name "Reader" ConvertTo-Json Out-File C:\SupportRole.json Get-AzureRmRoleDefinition -Name "Operator" ConvertTo-Json Out-File C:\SupportRole.json Set-AzureRmRoleDefinition -Name "Reader" Input-File C:\SupportRole.json Set-AzureRmRoleDefinition Input-File C:\SupportRole.json</pre>
Actions section	<pre>"/read","Microsoft.Support/" "/read" "/","Microsoft.Support/"</pre>

Case Study: 1
Coho Winery
Overview

This is a case study. Case studies are not timed separately. You can use as much exam time as you would like to complete each case. However, there may be additional case studies and sections on this exam. You must manage your time to ensure that you are able to complete all questions included on this exam in the time provided.

To answer the questions included in a case study, you will need to reference information that is provided in the case study. Case studies might contain exhibits and other resources that provide more information about the scenario that is described in the case study. Each question is independent of the other questions in this case study.

At the end of this case study, a review screen will appear. This screen allows you to review your answers and to make changes before you move to the next section of the exam. After you begin a new section, you cannot return to this section.

To start the case study

To display the first question in this case study, click the Next button Use the buttons in the left pane to explore the content of the case study before you answer the questions. Clicking these buttons displays information such as business requirements, existing environment, and problem statements. If the case study has an All Information tab, note that the information displayed is identical to the information displayed on the subsequent tabs. When you are ready to answer a question, click the Question button to return to the question.

LabelMaker app

Coho Winery produces, bottles, and distributes a variety of wines globally. You are a developer implementing highly scalable and resilient applications to support online order processing by using Azure solutions.

Coho Winery has a LabelMaker application that prints labels for wine bottles. The application sends data to several printers. The application consists of five modules that run independently on virtual machines (VMs). Coho Winery plans to move the application to Azure and continue to support label creation.

External partners send data to the LabelMaker application to include artwork and text for custom label designs.

Requirements

Data

You identify the following requirements for data management and manipulation:

- Order data is stored as nonrelational JSON and must be queried using Structured Query Language (SQL).
- Changes to the Order data must reflect immediately across all partitions. All reads to the Order data must fetch the most recent writes.

Security

You have the following security requirements:

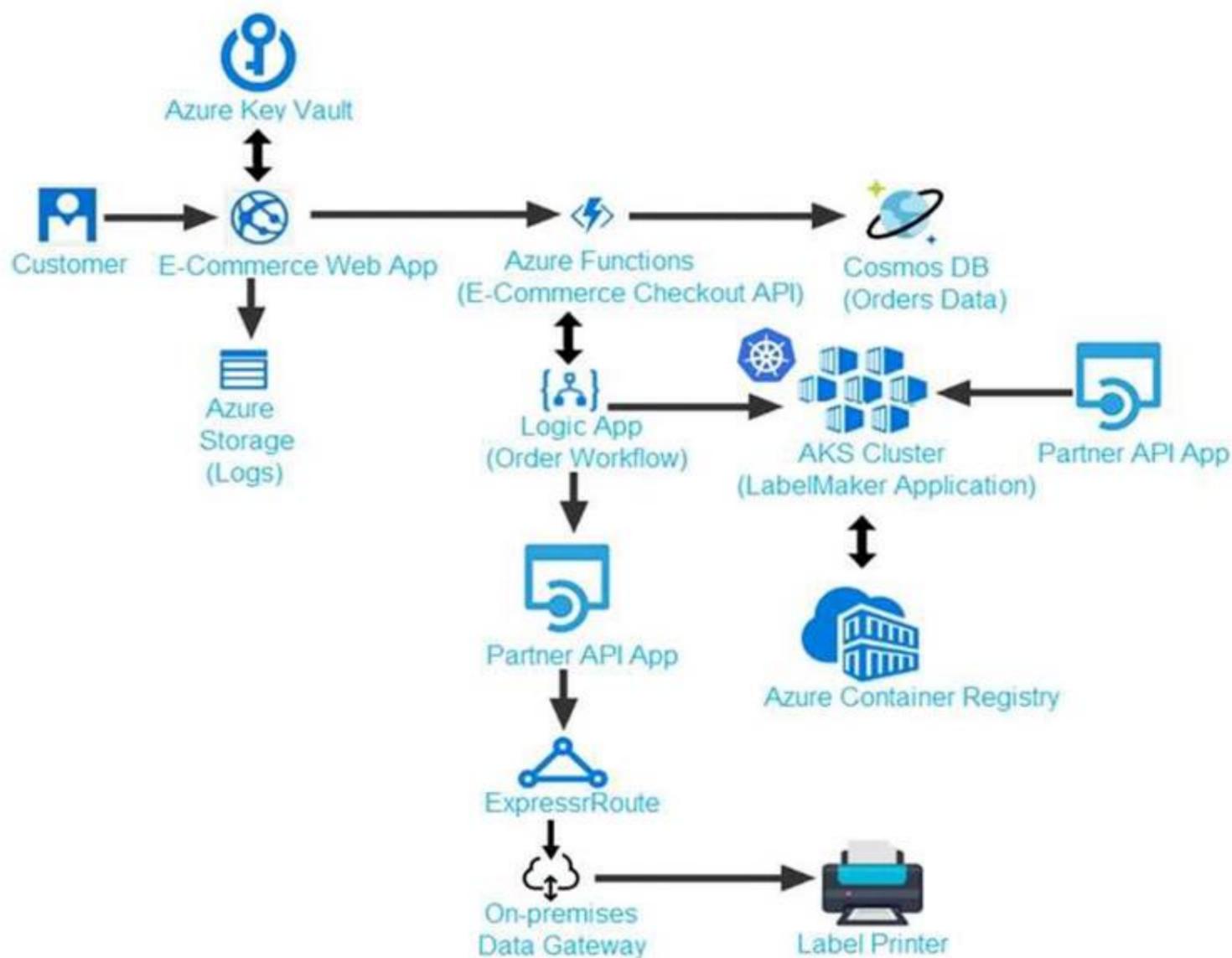
- Users of Coho Winery applications must be able to provide access to documents, resources, and applications to external partners.
- External partners must use their own credentials and authenticate with their organization's identity management solution.
- External partner logins must be audited monthly for application use by a user account administrator to maintain company compliance.
- Storage of e-commerce application settings must be maintained in Azure Key Vault.
- E-commerce application sign-ins must be secured by using Azure App Service authentication and Azure Active Directory (AAD).
- Conditional access policies must be applied at the application level to protect company content.
- The LabelMaker application must be secured by using an AAD account that has full access to all namespaces of the Azure Kubernetes Service (AKS) cluster.

LabelMaker app

Azure Monitor Container Health must be used to monitor the performance of workloads that are deployed to Kubernetes environments and hosted on Azure Kubernetes Service (AKS).

You must use Azure Container Registry to publish images that support the AKS deployment.

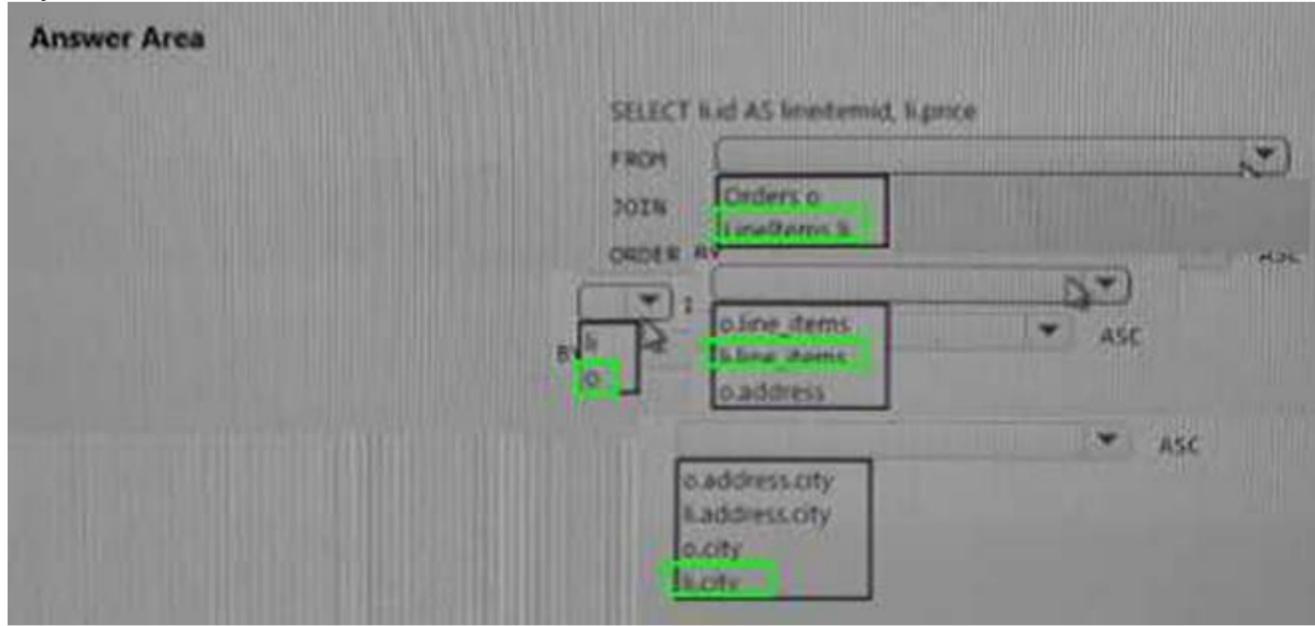
Architecture



Issues
 Calls to the Printer API App fall periodically due to printer communication timeouts. Printer communication timeouts occur after 10 seconds. The label printer must only receive up to 5 attempts within one minute
 The order workflow fails to run upon initial deployment to Azure.
 Order.Json
 Relevant portions of the app files are shown below. Line numbers are included for reference only. The JSON file contains a representation of the data for an order that includes a single item.

```
01 {
02  "id" : 1,
03  "customers" : [
04  {
05    "familyName" : "Doe",
06    "givenName" : "John",
07    "customerid" : 5
08  }
09  ],
10  "line_items" : [
11  {
12    "fulfillable_quantity" : 1,
13    "id" : 6,
14    "price" : "199.99",
15    "product_id" : 7513594,
16    "quantity": 1,
17    "requires_shipping" : true,
18    "sku" : "SFC-342-N" ,
19    "title" : "Surface Go",
20    "vendor" : "Microsoft" ,
21    "name" : "Surface Go - 8GB",
22    "taxable" : true,
```


Explanation:



NEW QUESTION 41

DRAG DROP

You need to deploy a new version of the LabelMaker application.

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.

NOTE: Each correct selection is worth one point.

Actions

Answer Area

- Restart the cluster.
- Create an alias of the image with the a new build number.
- Build a new application image by using msbuild.
- Create an alias of the image with the fully qualified path to the registry.
- Build a new application image by using dockerfile.
- Download the image to your local computer.
- Log in to the registry and push image.



- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Step 1: Build a new application image by using dockerfile

Step 2: Create an alias if the image with the fully qualified path to the registry

Before you can push the image to a private registry, you've to ensure a proper image name. This can be achieved using the docker tag command. For demonstration purpose, we'll use Docker's hello world image, rename it and push it to ACR.

pulls hello-world from the public docker hub

\$ docker pull hello-world

tag the image in order to be able to push it to a private registry

\$ docker tag hello-word <REGISTRY_NAME>/hello-world

push the image

\$ docker push <REGISTRY_NAME>/hello-world

Step 3: Log in to the registry and push image

In order to push images to the newly created ACR instance, you need to login to ACR form the Docker CLI. Once logged in, you can push any existing docker image to your ACR instance.

Scenario:

Coho Winery plans to move the application to Azure and continue to support label creation.

LabelMaker app

Azure Monitor Container Health must be used to monitor the performance of workloads that are deployed to Kubernetes environments and hosted on Azure Kubernetes Service (AKS).

You must use Azure Container Registry to publish images that support the AKS deployment.

References:

<https://thorsten-hans.com/how-to-use-a-private-azure-container-registry-with-kubernetes-9b86e67b93b6>

<https://docs.microsoft.com/en-us/azure/container-registry/container-registry-tutorial-quick-task>

NEW QUESTION 42

You need to meet the security requirements for the E-Commerce Web App. Which two steps should you take? Each correct answer presents part of the solution. NOTE: Each correct selection is worth one point.

- A. Create an Azure AD service principal.
- B. Enable Managed Service Identity (MSI) on the E-Commerce Web App.
- C. Add a policy to the Azure Key Vault to grant access to the E-Commerce Web App.
- D. Update the E-Commerce Web App with the service principal's client secret.

Answer: D

NEW QUESTION 46

HOTSPOT

You need to meet the security requirements for external partners. Which Azure Active Directory features should you use? To answer, select the appropriate options in the answer area. NOTE: Each correct selection is worth one point.

Answer Area

Requirement	Option
Authentication	<div style="border: 1px solid black; padding: 5px;"> B2C B2B Self-service signup Organizational Units (OU) </div>
Login Auditing	<div style="border: 1px solid black; padding: 5px;"> Access review Risky sign-ins report Identity Protection Privileged Identity Management </div>

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Answer Area

Requirement	Option
Authentication	<div style="border: 1px solid black; padding: 5px;"> B2C B2B Self-service signup Organizational Units (OU) </div>
Login Auditing	<div style="border: 1px solid black; padding: 5px;"> Access review Risky sign-ins report Identity Protection Privileged Identity Management </div>

NEW QUESTION 49

Note: This question is part of a series of questions that present the same scenario. Each question in the series contains a unique solution that might meet the stated goals. Some question sets might have more than one correct solution, while others might not have a correct solution.

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

You need to ensure that the SecurityPin security requirements are met.

Solution: Enable Always Encrypted for the SecurityPin column using a certificate based on a trusted certificate authority. Update the Getting Started document with instructions to ensure that the certificate is installed on user machines.

Does the solution meet the goal?

- A. Yes
- B. No

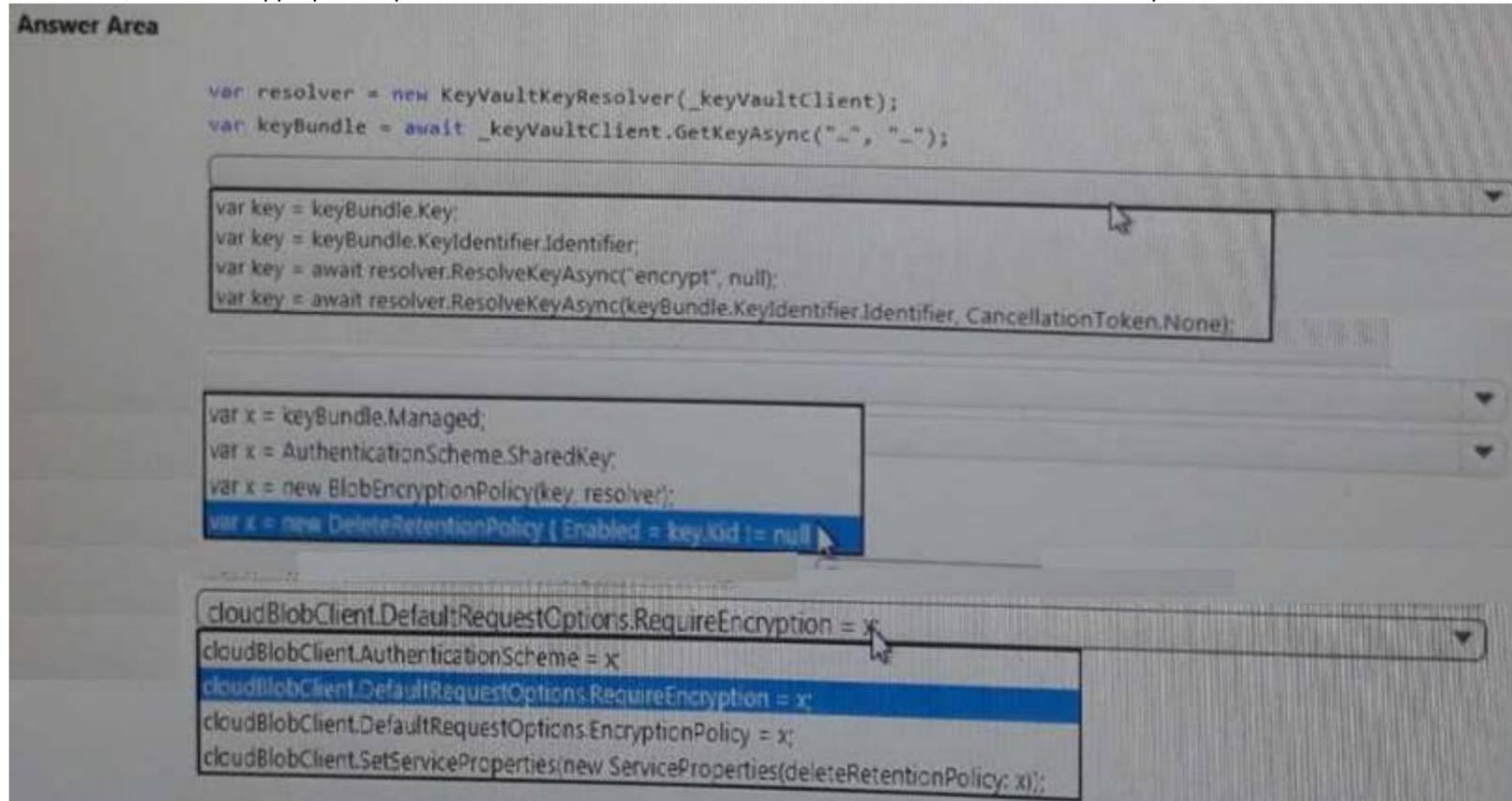
Answer: B

NEW QUESTION 53

HOTSPOT

You need to ensure that security policies are met. What code should you add at Line PC26?

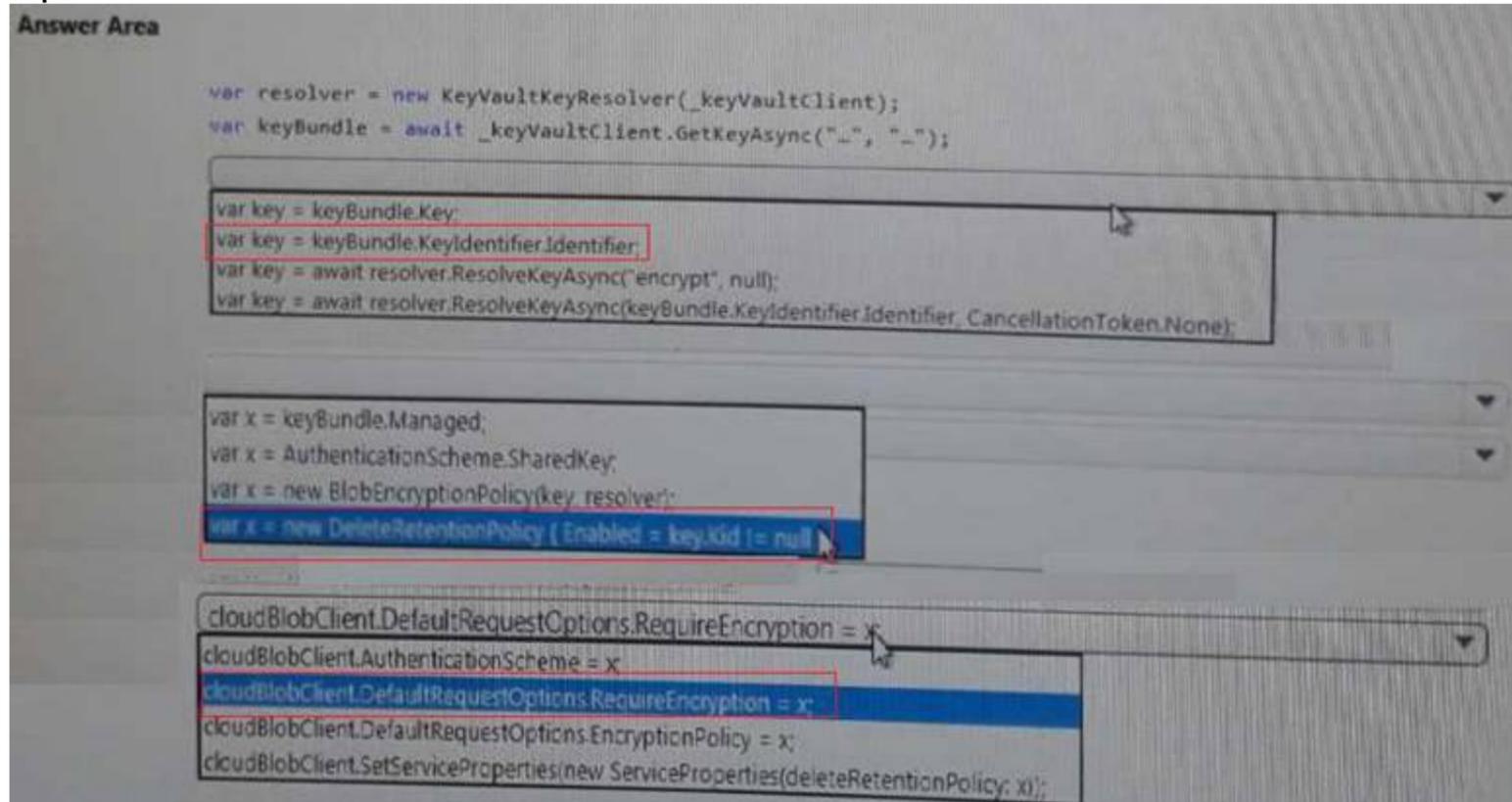
To answer, select the appropriate options in the answer area. NOTE: Each correct selection is worth one point.



- A. Mastered
- B. Not Mastered

Answer: A

Explanation:



NEW QUESTION 57

HOTSPOT

You need to configure retries in the LoadUserDetails function in the Database class without impacting user experience. What code should you insert on line DB07?

To answer, select the appropriate options in the answer area. NOTE: Each correct selection is worth one point.

```
var policy=
Policy
RetryPolicy
RetryOptions
ReconnectRetryPolicy
```

.Handle<Exception>()

```
.Retry(3);
.CircuitBreaker(3, TimeSpan.FromMilliseconds(100));
.WaitAndRetryAsync(3, i => TimeSpan.FromMilliseconds(100));
.WaitAndRetryAsync(3,i => TimeSpan.FromMilliseconds(100 * Math.Pow(2,i-1)));
```

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Box 1: Policy
 RetryPolicy retry = Policy
 .Handle<HttpRequestException>()
 .Retry(3);

The above example will create a retry policy which will retry up to three times if an action fails with an exception handled by the Policy.

Box 2: WaitAndRetryAsync(3,i => TimeSpan.FromMilliseconds(100 * Math.Pow(2,i- 1)));

A common retry strategy is exponential backoff: this allows for retries to be made initially quickly, but then at progressively longer intervals, to avoid hitting a subsystem with repeated frequent calls if the subsystem may be struggling.

Example: Policy
 .Handle<SomeExceptionType>()
 .WaitAndRetry(3, retryAttempt => TimeSpan.FromSeconds(Math.Pow(2, retryAttempt))
);

References:
<https://github.com/App-vNext/Polly/wiki/Retry>

NEW QUESTION 62

DRAG DROP

You need to ensure disaster recovery requirements are met. What code should you add at line PC16?

To answer, drag the appropriate code fragments to the correct locations. Each code fragment 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.

Values

- true
- false
- SingleTransferContext
- DirectoryTransferContext
- ShouldTransferCallbackAsync
- ShouldOverwriteCallbackAsync

Answer Area

```
var copyOptions = new CopyOptions { };
var context = new Value (source, destinati
context: Value (source, destination) => Task.From
await TransferManager.CopyAsync(blob, GetDRBlob(blob), isServiceCopy:
, context: context, options:copyOptions);copyOptions, context);
```

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Values

- true
- false
- SingleTransferContext
- DirectoryTransferContext
- ShouldTransferCallbackAsync
- ShouldOverwriteCallbackAsync

Answer Area

```
var copyOptions = new CopyOptions { };
var context = new true (source, destination)
context.SingleTransferContext (source, destination) => Task.From
await TransferManager.CopyAsync(blob, GetDRBlob(blob), isServiceCopy:
, context: context, options:copyOptions);copyOptions, context);
```

NEW QUESTION 66

DRAG DROP

You need to add code at line PC32 in Processing.es to implement the GetCredentials method in the Processing class.

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

- MSITokenProvider(". . .", null)
- tp.GetAccessTokenAsync(". . .")
- AzureServiceTokenProvider()
- StringTokenProvider("storage", "msi")
- tp.GetAuthenticationHeaderAsync(CancellationTokens.None)

Answer Area

```
var tp = new code segment
var t = new TokenCredential(await
return new StorageCredential(t);
```

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Code segments

- MSITokenProvider(". . .", null)
- tp.GetAccessTokenAsync(". . .")
- AzureServiceTokenProvider()
- StringTokenProvider("storage", "msi")
- tp.GetAuthenticationHeaderAsync(CancellationTokens.None)

Answer Area

```
var tp = new AzureServiceTokenProvider()
var t = new TokenCredential(await StringTokenProvider("storage",
return new StorageCredential(t);
```

NEW QUESTION 69

You need to ensure the security policies are met. What code do you add at line CS07?

- A. -PermissionsToKeys wrapkey, unwrapkey, get
- B. -PermissionsToKeys create, encrypt, decrypt
- C. -PermissionsToCertificates wrapkey, unwrapkey, get
- D. -PermissionsToCertificates create, encrypt, decrypt

Answer: D

Explanation:

Case Study: 3
 Proseware, Inc
 Background

You are a developer for Proseware, Inc. You are developing an application that applies a set of governance policies for Proseware's internal services, external services, and applications. The application will also provide a shared library for common functionality.

Requirements Policy service

You develop and deploy a stateful ASP.NET Core 2.1 web application named Policy service to an Azure App Service Web App. The application reacts to events from Azure Event Grid and performs policy actions based on those events.

The application must include the Event Grid Event ID field in all Application Insights telemetry.

Policy service must use Application Insights to automatically scale with the number of policy actions that it is performing.

Policies Log policy

All Azure App Service Web Apps must write logs to Azure Blob storage. All log files should be saved to a container named logdrop. Logs must remain in the container for 15 days.

Authentication events

Authentication events are used to monitor users signing in and signing out. All authentication events must be processed by Policy service. Sign outs must be processed as quickly as possible.

Policylib

You have a shared library named PolicyLib that contains functionality common to all ASP.NET Core web services and applications. The Policy Lib library must

- Exclude non-user actions from Application Insights telemetry.
- Provide methods that allow a web service to scale itself.
- Ensure that scaling actions do not disrupt application usage.

Other

Anomaly detection service

You have an anomaly detection service that analyzes log information for anomalies. It is implemented as an Azure as a web service.

If an anomaly is detected, an Azure Function that emails administrators is called by using an HTTP WebHook.

Health monitoring

All web applications and services have health monitoring at the /health service endpoint.

Issues Policy loss

When you deploy Policy service, policies may not be applied if they were in the process of being applied during the deployment.

Performance issue

When under heavy load, the anomaly detection service undergoes slowdowns and rejects connections.

Notification latency

Users report that anomaly detection emails can sometimes arrive several minutes after an anomaly is detected.

App code EventGridController.cs

Relevant portions of the app files are shown below. Line numbers are included for reference only and include a two-character prefix that denotes the specific file to which they belong.

```
EventGridController.cs
EG01 public class EventGridController : Controller
EG02 {
EG03     public static AsyncLocal<string> EventId = new AsyncLocal<string>();
EG04     public IActionResult Process([FromBody] string eventsJson
EG05     {
EG06         var events = JObject.Parse(eventsJson);
EG07
EG08         foreach (var @event in events)
EG09         {
EG10             EventId.Value = @event["id"].ToString();
EG11             if (@event["topic"].ToString().Contains("providers/Microsoft.Storage"))
EG12             {
EG13                 SendToAnomalyDetectionService(@event["data"]["url"].ToString());
EG14             }
EG15
EG16             {
EG17                 EnsureLogging(@event["subject"].ToString());
EG18             }
EG19         }
EG20         return null;
EG21     }
EG22     private void EnsureLogging(string resource)
EG23     {
EG24         . . .
EG25     }
EG26     private async Task SendToAnomalyDetectionService(string uri)
EG27     {
EG28         var content = GetLogData(uri);
EG29         var scoreRequest = new
EG30         {
EG31             Inputs = new Dictionary<string, List<Dictionary<string, string>>>()
EG32             {
EG33                 {
EG34                     "input1",
```

```
EG35         new List<Dictionary<string, string>>()
EG36     {
EG37         new Dictionary<string, string>()
EG38     {
EG39     {
EG40         "logcontent", content
EG41     }
EG42     }
EG43     },
EG44     },
EG45     },
EG46     GlobalParameters = new Dictionary<string, string>() { }
EG47 };
EG48 var result = await (new HttpClient()).PostAsJsonAsync(".", scoreRequest);
EG49 var rawModelResult = await result.Content.ReadAsStringAsync();
EG50 var modelResult = JObject.Parse(rawModelResult);
EG51 if (modelResult["notify"].HasValues)
EG52 {
EG53     . . .
EG54 }
EG55 }
EG56 private (string name, string resourceGroup) ParseResourceId(string
resourceId)
EG57 {
EG58     . . .
EG59 }
EG60 private string GetLogData(string uri)
EG61 {
EG62     . . .
EG63 }
EG64 static string BlobStoreAccountSAS(string containerName)
EG65 {
EG66     . . .
EG67 }
EG68 }
```

LoginEvents.cs

Relevant portions of the app files are shown below. Line numbers are included for reference only and include a two-character prefix that denotes the specific file to which they belong.

LoginEvent.cs

```
LE01 public class LoginEvent
LE02 {
LE03
LE04 public string subject { get; set; }
LE05 public DateTime eventTime { get; set; }
LE06 public Dictionary<string, string> data { get; set; }
LE07 public string Serialize()
LE08 {
LE09     return JsonConvert.SerializeObject(this);
LE10 }
LE11 }
```

NEW QUESTION 70

Note: This question is part of a series of questions that present the same scenario. Each question in the series contains a unique solution that might meet the stated goals. Some question sets might have more than one correct solution, while others might not have a correct solution.

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

You need to ensure that authentication events are triggered and processed according to the policy.

Solution: Create separate Azure Event Grid topics and subscriptions for sign-in and sign-out events.

Does the solution meet the goal?

- A. Yes
- B. No

Answer: A

NEW QUESTION 73

Note: This question is part of a series of questions that present the same scenario. Each question in the series contains a unique solution that might meet the stated goals. Some question sets might have more than one correct solution, while others might not have a correct solution.

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

You need to ensure that authentication events are triggered and processed according to the policy.

Solution: Create a new Azure Event Grid topic and add a subscription for the events. Does the solution meet the goal?

- A. Yes
- B. No

Answer: B

Explanation:

Use a separate Azure Event Grid topics and subscriptions for sign-in and sign-out events.

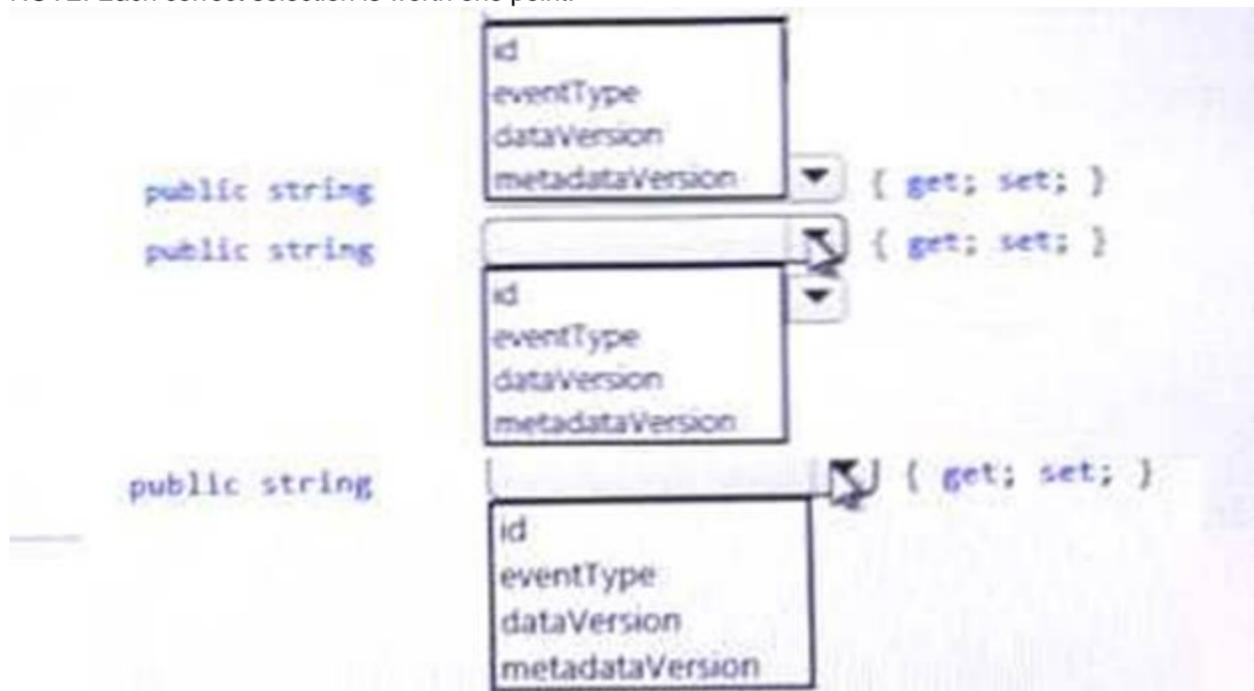
Scenario: Authentication events are used to monitor users signing in and signing out. All authentication events must be processed by Policy service. Sign outs must be processed as quickly as possible.

NEW QUESTION 75

HOTSPOT

You need to tool code at line LE03 of Login Event to ensure that all authentication events are processed correctly. How should you complete the code? To answer, select the appropriate options in the answer area.

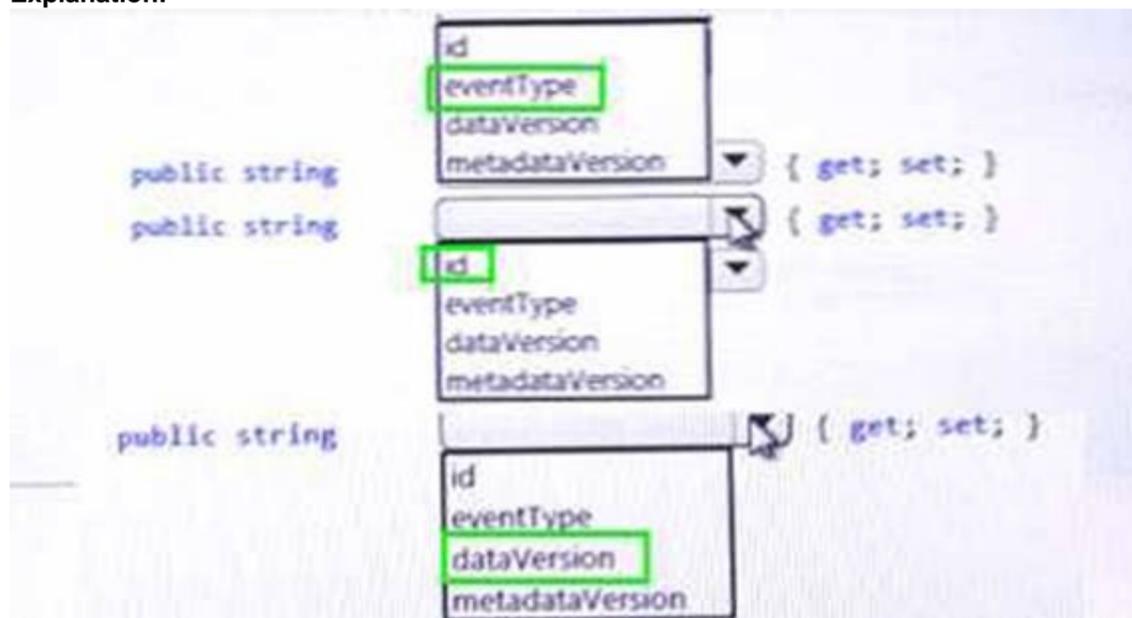
NOTE: Each correct selection is worth one point.



- A. Mastered
- B. Not Mastered

Answer: A

Explanation:



NEW QUESTION 76

You need to resolve a notification latency issue.

Which two actions should you perform? Each correct answer presents part of the solution.

NOTE: Each correct selection is worth one point

- A. Ensure that the Azure Function is using an App Service plan.
- B. Set Always On to false
- C. Ensure that the Azure Function is set to use a consumption plan.
- D. Set Always On to true.

Answer: AD

Explanation:

Azure Functions can run on either a Consumption Plan or a dedicated App Service Plan. If you run in a dedicated mode, you need to turn on the Always On setting

for your Function App to run properly. The Function runtime will go idle after a few minutes of inactivity, so only HTTP triggers will actually "wake up" your functions. This is similar to how WebJobs must have Always On enabled.

Scenario: Notification latency: Users report that anomaly detection emails can sometimes arrive several minutes after an anomaly is detected.

Anomaly detection service: You have an anomaly detection service that analyzes log information for anomalies. It is implemented as an Azure Machine Learning model. The model is deployed as a web service.

If an anomaly is detected, an Azure Function that emails administrators is called by using an HTTP WebHook.

References:

<https://github.com/Azure/Azure-Functions/wiki/Enable-Always-On-when-running-on-dedicated-App-Service-Plan>

NEW QUESTION 79

You need to meet the scaling requirement for Policy Service. What should you store in Azure Redis Cache?

- A. HttpContext.Items
- B. ViewState
- C. Session state
- D. TempData

Answer: C

NEW QUESTION 83

You need to resolve the Policy Loss issue.

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. Add an Azure Event Hu
- B. Send the policy to the event hu
- C. Configure the Policy service to read actions from the event hub.
- D. Add an Azure Service Bus queu
- E. Send the policy to the queu
- F. Configure the Policy service to read actions from the queue.
- G. Add an Azure Queue storage queu
- H. Send the policy to the queu
- I. Configure the Policy service to read actions from the queue.
- J. Add an Azure Service Bus topi
- K. Send the policy to the topi
- L. Configure the Policy service to read actions from the topic.

Answer: BD

NEW QUESTION 88

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 need to meet the vendor notification requirement.

Solution: Create and apply a custom outbound Azure API Management policy. Does the solution meet the goal?

- A. Yes
- B. No

Answer: A

Explanation:

Scenario:

If a vendor is nearing the number of calls or bandwidth limit, the API must trigger email notifications to the vendor.

(API usage must not exceed 5,000 calls and 50,000 kilobytes of bandwidth per hour per vendor.)

In Azure API Management (APIM), policies are a powerful capability of the system that allow the publisher to change the behavior of the API through configuration.

Policies are a collection of Statements that are executed sequentially on the request or response of an API. Popular Statements include format conversion from XML to JSON and call rate limiting to restrict the amount of incoming calls from a developer. Many more policies are available out of the box.

References:

<https://docs.microsoft.com/en-us/azure/api-management/api-management-howto-policies>

NEW QUESTION 90

HOTSPOT

You need to update the Inventory API.

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

NOTE: Each correct selection is worth one point.

Development

Tool

Technology

▼
ADO.NET
Entity Framework
Entity Framework Core
WCF Data Services

Workflow

▼
Model first
Database first
Code first

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Scenario: The Inventory API must be written by using ASP.NET Core and Node.js. Box 1: Entity Framework Core

Box 2: Code first References:

<https://docs.microsoft.com/en-us/aspnet/mvc/overview/getting-started/getting-started-with-ef-using-mvc/creating-an-entity-framework-data-model-for-an-asp-net-mvc-application>

NEW QUESTION 91

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

- A. Implement simple retry by using the EnableRetryOnFailure feature of Entity Framework.
- B. Implement exponential backoff by using the EnableRetryOnFailure feature of Entity Framework.
- C. Implement the Circuit Breaker pattern by using the EnableRetryOnFailure feature of Entity Framework.
- D. Invoke accustom execution strategy in Entity Framework.

Answer: A

Explanation:

Scenario: The Delivery API intermittently throws the following exception:

```
"System.Data.Entity.Core.EntityCommandExecutionException: An error occurred while executing the command definition. See the inner exception for details. --->System.Data.SqlClient.SqlException: A transport-level error has occurred when receiving results from the server. (provider: Session Provider, error: 19 - Physical connection is not usable)"
```

A useful method to get rid of this error is to use RETRY LOGIC of Entity Framework 1.1.0 services.AddDbContext<DbContext>(options => options.UseSqlServer('yourconnectionstring', ...sqlServerOptionsAction: sqlOptions =>

```
...{
.....sqlOptions.EnableRetryOnFailure(
.....maxRetryCount: 5,
.....maxRetryDelay: TimeSpan.FromSeconds(30),
.....errorNumbersToAdd: new List<int>() { 19 });
...});
```

In Retry logic, error 19 is not included. So you have to pass the error code 19 to set retry logic for error code 19.

References:

<https://stackoverflow.com/questions/47558062/error-19-physical-connection-error/47559967>

NEW QUESTION 92

Note: In this section you will see one or more sets of questions with the same scenario and problem. Each question presents a unique solution to the problem, and you must determine whether the solution meets the stated goals. More than one solution might solve the problem. It is also possible that none of the solutions solve the problem.

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.

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 need to meet the vendor notification requirement.

Solution: Update the Delivery API to send emails by using a Microsoft Office 365 SMTP server.

Does the solution meet the goal?

- A. Yes
- B. No

Answer: B

Explanation:

Use a custom outbound Azure API Management policy. Scenario:

If a vendor is nearing the number of calls or bandwidth limit, the API must trigger email notifications to the vendor.
(API usage must not exceed 5,000 calls and 50,000 kilobytes of bandwidth per hour per vendor.)

References:

<https://docs.microsoft.com/en-us/azure/api-management/api-management-howto-policies>

NEW QUESTION 93

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