

# Microsoft

## Exam Questions AZ-203

Developing Solutions for Microsoft Azure



### NEW QUESTION 1

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

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

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

You create the index in Azure Search.

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

Solution:

1. Create a SearchServiceClient object to connect to the search index.

Answer:

### NEW QUESTION 2

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

Answer:

### NEW QUESTION 3

Set the DataSource property of the SearchServiceClient Does the solution meet the goal?

- A. Yes
- B. No

Answer:

**Explanation:** 2. Note: This question is part of a series of questions that present the same scenario. Each question in the series contains a unique solution that might meet the stated goals. Some question sets might have more than one correct solution, while others might not have a correct solution.

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You create the index in Azure Search.

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

Solution:

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

Does the solution meet the goal?

- A. Yes
- B. No

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

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You create the index in Azure Search.

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

Solution:

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

Does the solution meet the goal?

- A. Yes
- B. No

4. 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.GeneratePilterCondition("LastName", QueryComparisons.Equal, "Smith")
- B. TableQuery.GeneratefilterCondition("PartitionKey", QueryComparisons. Equal, "Smith")
- C. TableQue.GenerateFilterCondition("PartitionKey", Equals, "Smith")
- D. TableQuery. GenerateFilterCondition("LastName", Equals, "Smith")

### NEW QUESTION 4

DRAG DROP

You are developing a solution for a hospital to support the following use cases:

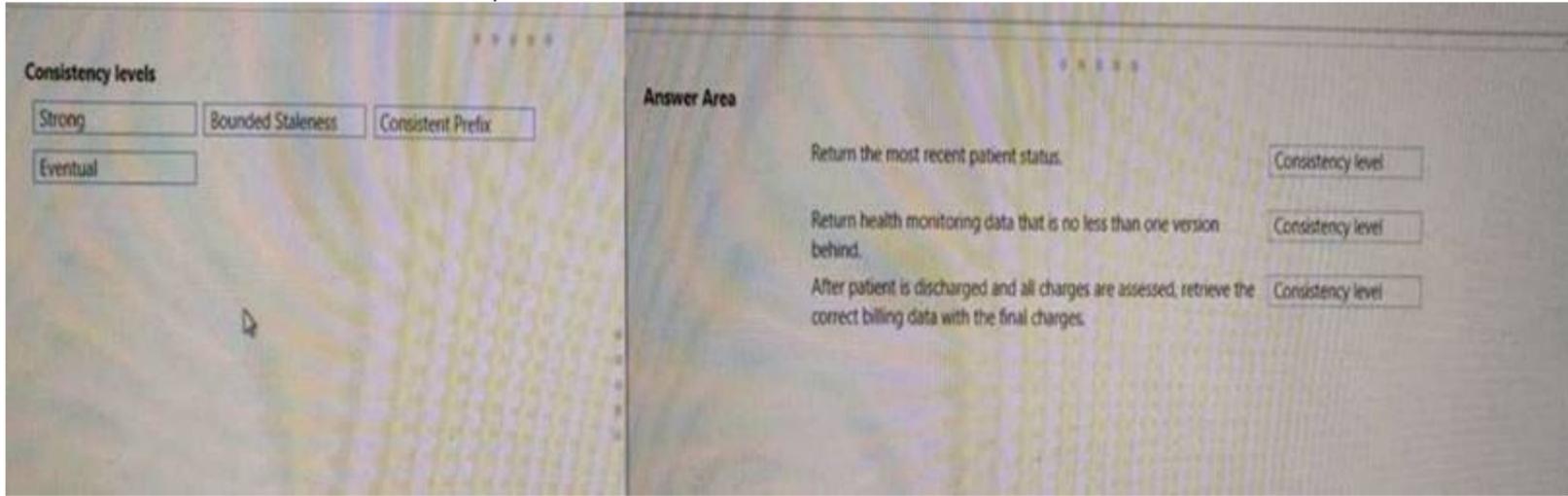
- The most recent patient status details must be retrieved even if multiple users in different locations have updated the patient record
- Patient health monitoring data retrieved must be the current version or the prior version.
- After a patient is discharged and all charges have been assessed, the patient billing record contains the final charges.

You provision a Cosmos D6 NoSQL database and set the default consistency level for the database account to Strong. You set the value for Indexing Mode to Consistent

You must minimize latency and any impact to the availability of the solution. You must override the default consistency level at the query level to meet the required consistency guarantees for the scenarios.

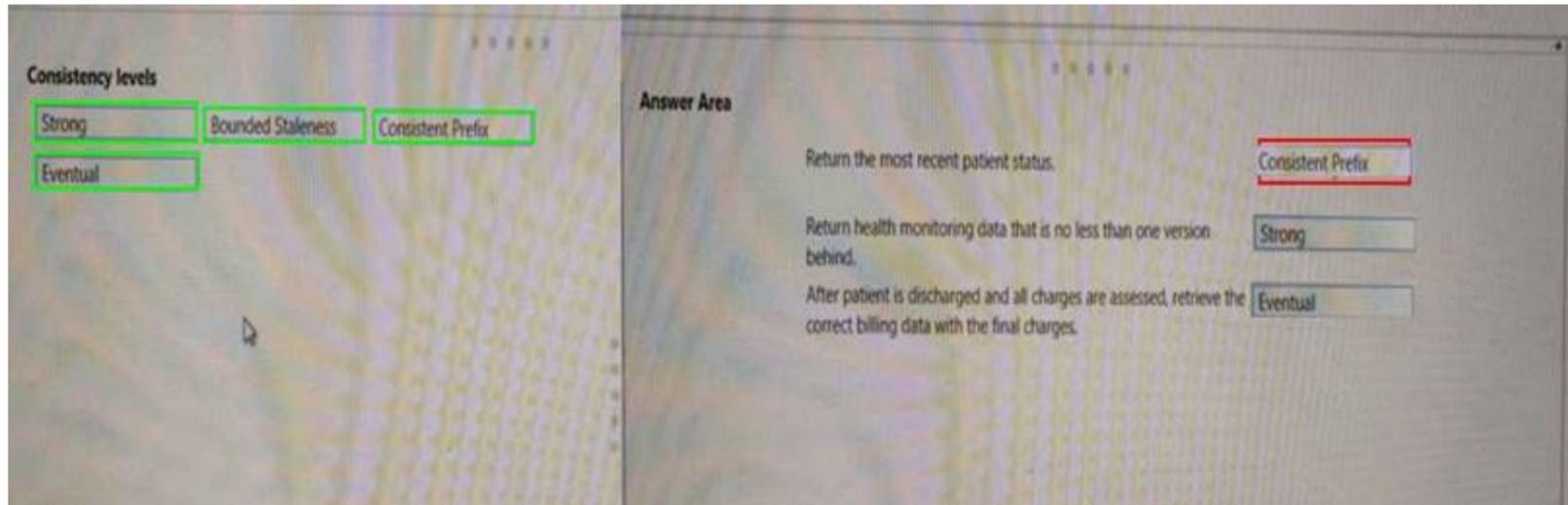
You need to configure the consistency levels to support each scenario.

Which consistency levels should you implement? To answer, drag the appropriate consistency levels to the correct requirements. Each consistency level 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.



**Answer:**

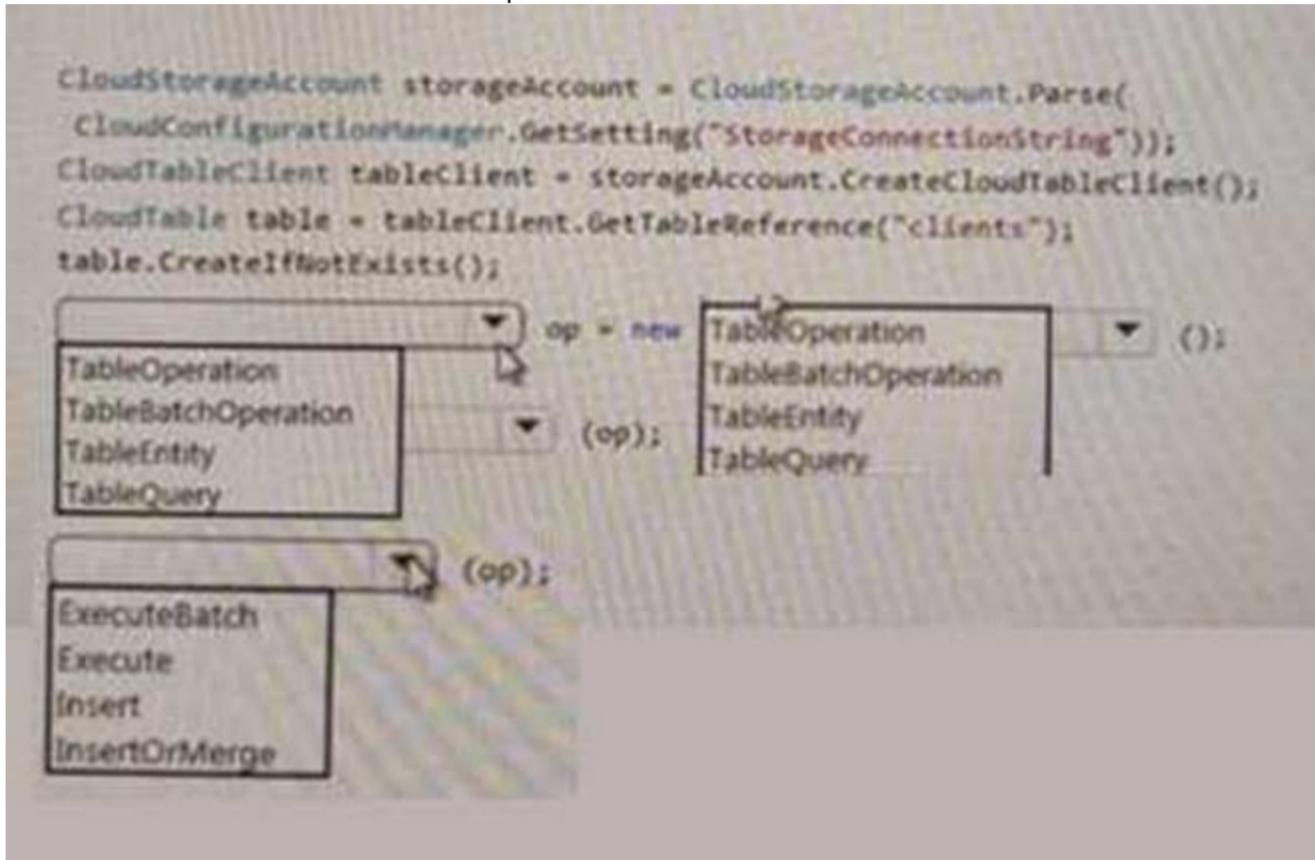
**Explanation:**



**NEW QUESTION 5**

**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.



**Answer:**

**Explanation:**

```

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

op = new TableOperation (op);
TableBatchOperation (op);
TableEntity (op);
TableQuery (op);

ExecuteBatch
Execute
Insert
InsertOrMerge
    
```

**NEW QUESTION 6**

DRAG DROP

You are deploying an Azure Kubernetes Services (AKS) cluster that will use multiple containers

You need to create the cluster and verify that the services for the containers are configured correctly and available.

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

Answer:

Explanation:

**NEW QUESTION 7**

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.

```

public List<CloudTask> StartTasks(List<FileTask> fileTasks, string jobId,
string outputContainerSasUrl, string failedContainerSasUrl)
{
    BatchSharedKeyCredentials sharedKeyCredentials =
    new BatchSharedKeyCredentials(batchAccountUrl, batchAccountName, batchAccountKey);
    List<CloudTask> tasks = new List<CloudTask>();
    using (BatchClient batchClient = BatchClient.Open(sharedKeyCredentials))
    {
        CloudJob job = batchClient.JobOperations.
        job.Id = jobId;
        job.PoolInformation = new PoolInformation(poolId);
        job.Commit();
        fileTasks.ForEach((fileTask) =>
        {
            string taskId = $"Task{DateTime.Now.ToFileTimeUtc().ToString()}";
            CloudTask task = new CloudTask(taskId, fileTask.Command);
            List<OutputFile> outputFileList = new List<OutputFile>();
            OutputFileBlobContainerDestination outputContainer =
            new OutputFileBlobContainerDestination(outputContainerSasUrl);
            OutputFileBlobContainerDestination failedContainer =
            new OutputFileBlobContainerDestination(failedContainerSasUrl);
            outputFileList.Add(new OutputFile(fileTask.Output,
            outputFileList.Add(new OutputFile(fileTask.Output,
            new OutputFileDestination(outputContainer),
            new OutputFileUploadOptions(OutputFileUploadCondition.
            outputFileList.Add(new OutputFile(fileTask.Output,
            new OutputFileDestination(failedContainer),
            new OutputFileUploadOptions(OutputFileUploadCondition.
            task.
            tasks.Add(
            ));
        });
    }
    return tasks;
}
    
```

Answer:

- Explanation: EnableJob  
 TaskFailure  
 Taskcompletion  
 ResourceFiles

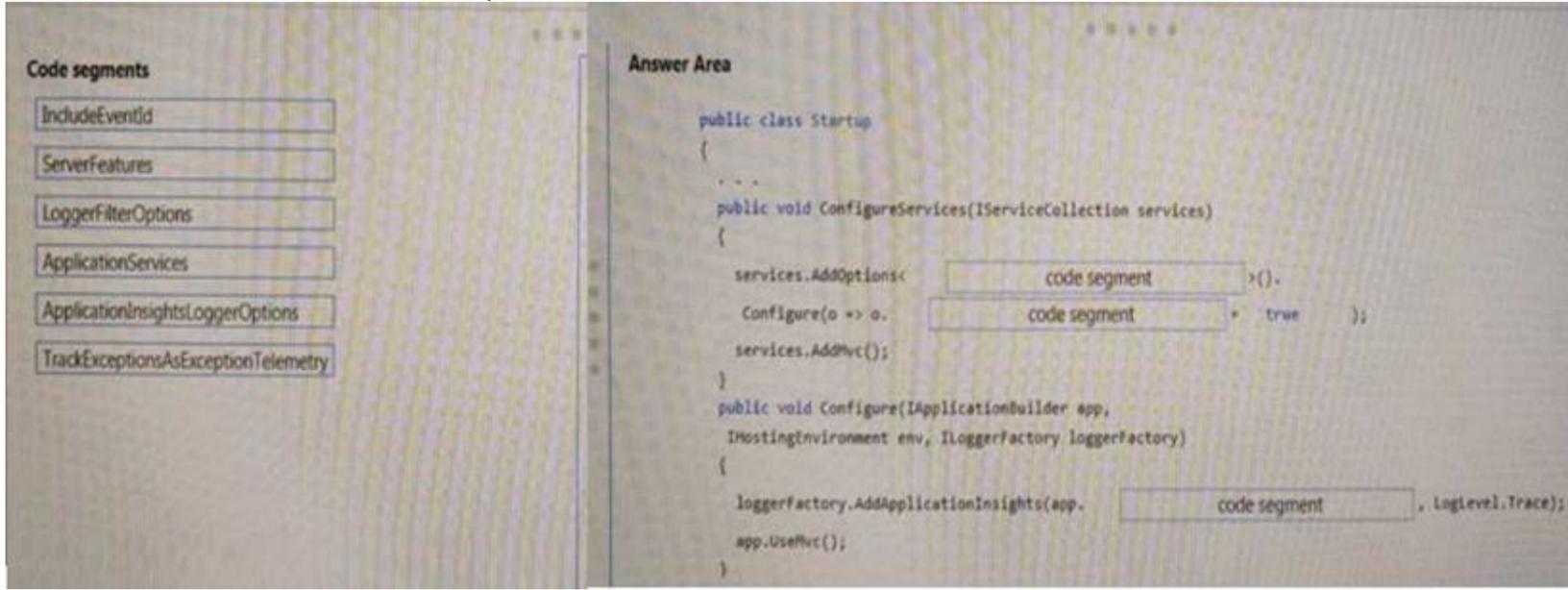
**NEW QUESTION 8**

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.

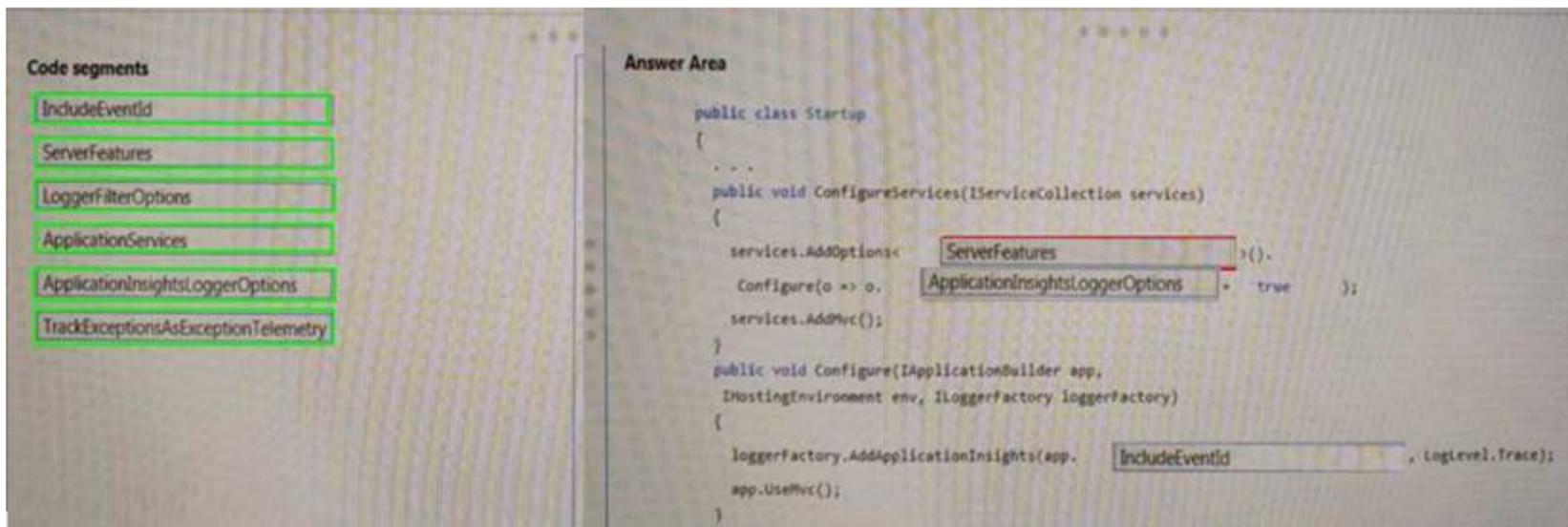
How should you complete the code? To answer, drag the appropriate code segments to the correct locations. Each code segment may be used once, more than once, or not at all. You may need to drag the split bar between panes or scroll to view content.

NOTE: Each correct selection is worth one point.



**Answer:**

**Explanation:**

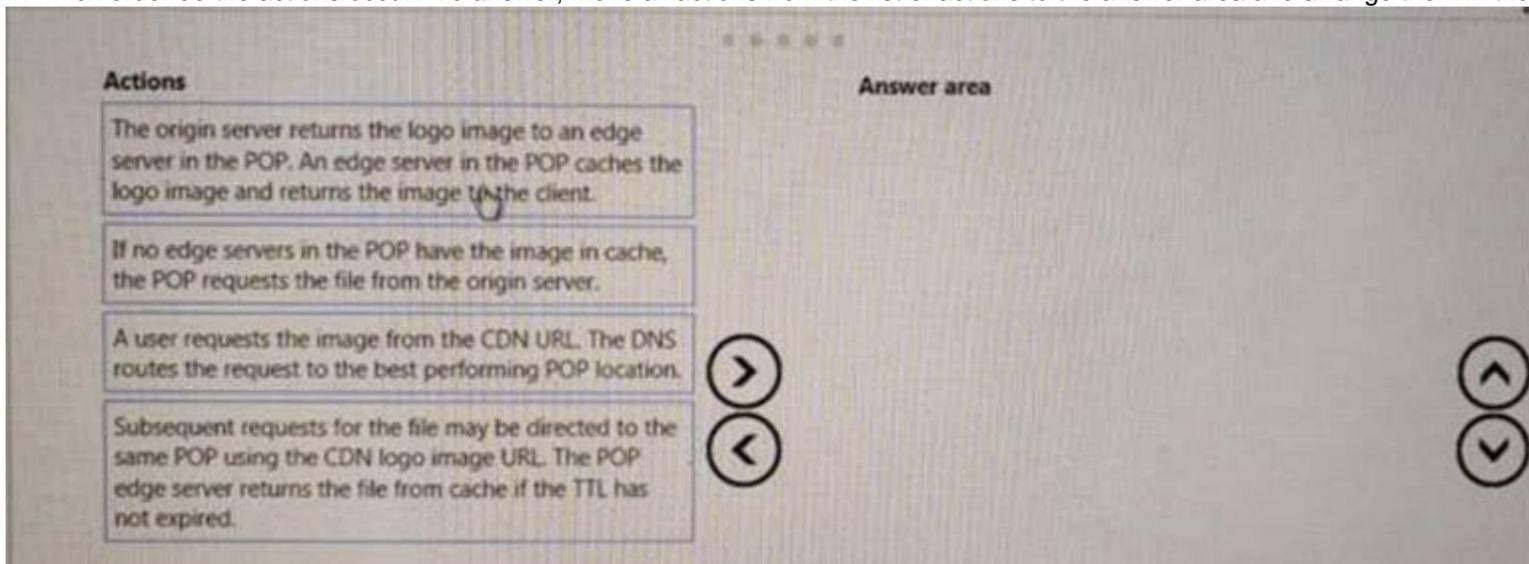


**NEW QUESTION 9**

DRAG DROP

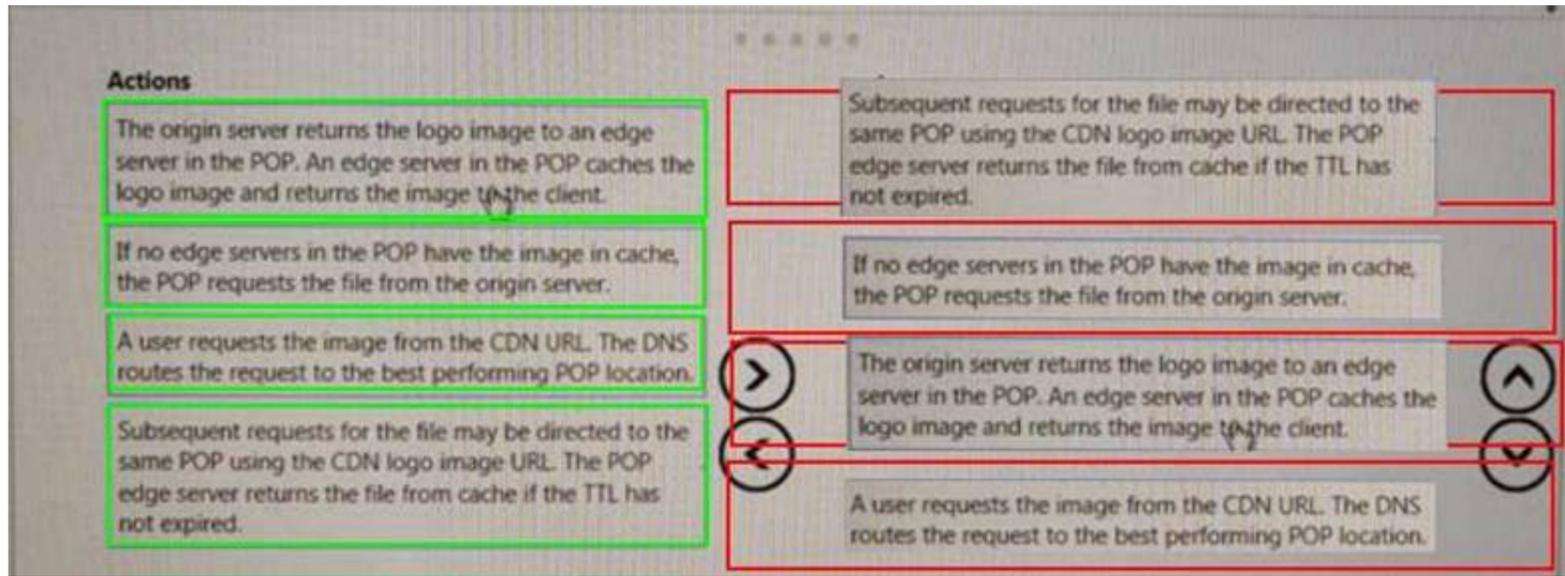
Your company has several websites that use a company logo image. You use Azure Content Delivery Network (CDN) to store the static image. You need to determine the correct process of how the CDN and the Point of Presence (POP) server will distribute the image and list the items in the correct order.

In which order do the actions occur? To answer, move all actions from the list of actions to the answer area and arrange them in the correct order.



**Answer:**

**Explanation:**



**NEW QUESTION 10**

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	Filter type
FutureOrders	<input type="text"/>
HighPriorityOrders	<input type="text"/>
InternationalOrders	<input type="text"/>
HighQuantityOrders	<input type="text"/>
AllOrders	<input type="text"/>

Answer:

**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 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 part.

- A. Session Id
- B. Events
- C. User Id
- D. Exception
- E. Trace

**Answer:** ABC

**NEW QUESTION 12**

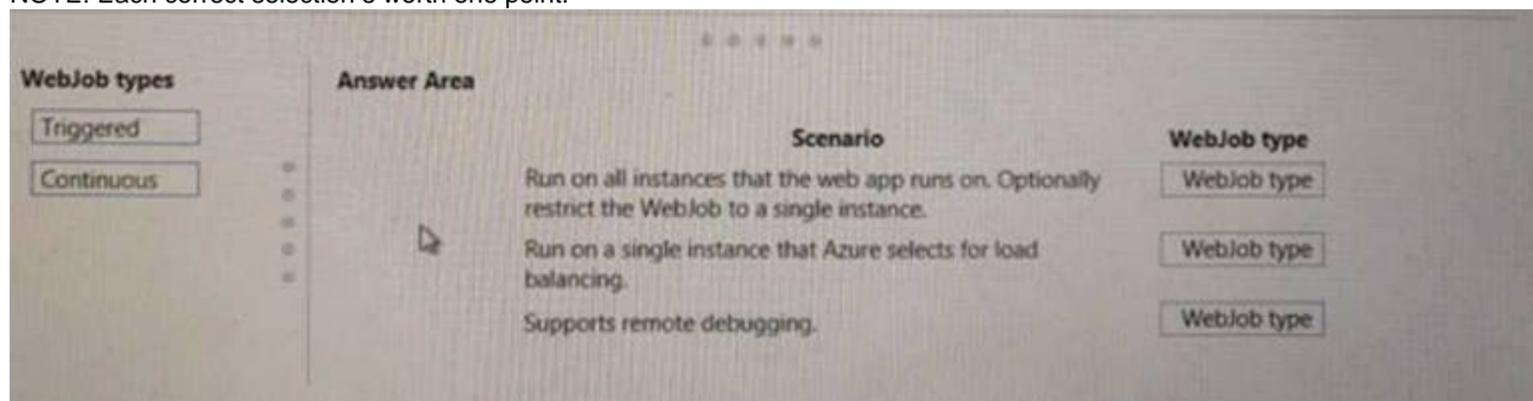
DRAG DROP

You are developing Azure WebJobs.

You need to recommend a WebJob type for each scenario.

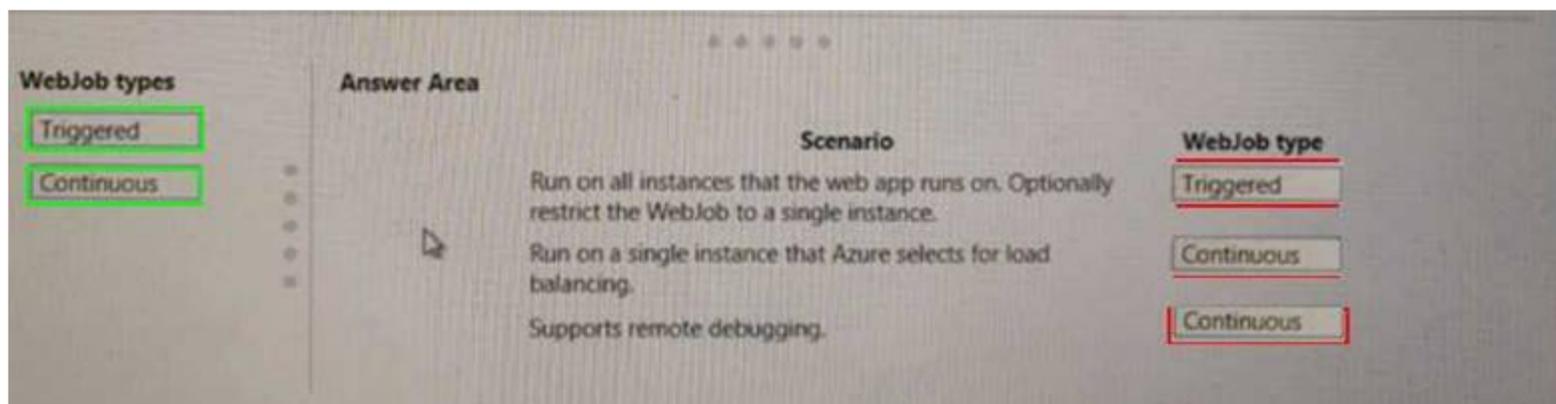
Which WebJob type should you recommend? To answer, drag the appropriate WebJob types to the correct scenarios. Each WebJob type may be used once more than once, or not at all. You may need to drag the split bar between panes or scroll to view content

NOTE: Each correct selection s worth one point.



**Answer:**

**Explanation:**



**NEW QUESTION 17**

DRAG DROP

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.

**Code Seaments**

```
[Authorize (Policy = "ProviderEditor")]
[Authorize (Role = "SysAdmin")]
```

```
[Authorize (Role = "ProviderAdmin")]
[Authorize (Role = "SysAdmin")]
```

```
[Authorize (Role = "SysAdmin", "ProviderAdmin")]
```

```
[Authorize (Policy = "ProviderEditor", Role= "SysAdmin")]
```

**Answer Area**

```
public class PartnerController : Controller
{
    ...
}

Public ActionResult Manage ()
{
    ...
}
```

**Answer:**

**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 22**

You need to meet the LabelMaker security requirement. What should you do?

- A. Create a conditional access policy and assign it to the Azure Kubernetes Service duster
- B. Place the Azure Active Directory account into an Azure AD grou
- C. Create a ClusterRoleBinding and assign it to the group.
- D. Create a Microsoft Azure Active Directory service principal and assign it to the Azure Kubernetes Service (AKS) duster.
- E. Create a RoleBinding and assign it to the Azure AD account.

**Answer:** D

**NEW QUESTION 24**

**HOTSPOT**

You are developing an Azure Web App. You configure TLS mutual authentication for the web app.

You need to validate the client certificate in the web app. To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

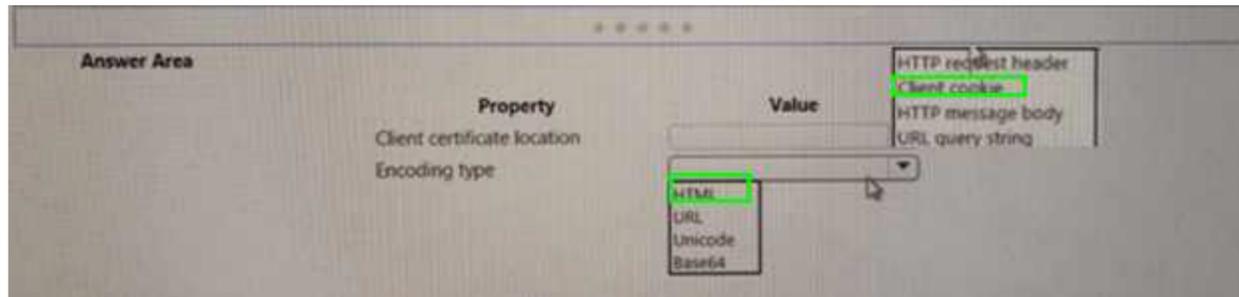
Property	Value
Client certificate location	[Dropdown Menu]
Encoding type	[Dropdown Menu]

HTTP request header  
 Client cookie  
 HTTP message body  
 URL query string

HTML  
 URL  
 Unicode  
 Base64

**Answer:**

**Explanation:**



**NEW QUESTION 29**

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 33**

**HOTSPOT**

You have an app that stores player scores for an online game. The app stores data in Azure tables using a class named PlayerScore as the table entity. The table is populated with 100,000 records.

You are reviewing the following section of code that is intended to retrieve 20 records where the player score exceeds 15,000. (Line numbers are included for reference only.)

```

1 public void GetScore(string playerId, int score, string gameName)
2 {
3     TableQuery<DynamicTableEntity> query = new TableQuery<DynamicTableEntity>().Select(new string[] { "Score" })
         .Where(TableQuery.GenerateFilterConditionForInt("Score", QueryComparisons.GreaterThanOrEqual, 15000)).Take(20);
4     EntityResolver<KeyValuePair<string, int?>> resolver =
         (partitionKey, rowKey, ts, props, etag) => new KeyValuePair<string, int?>(rowKey, props["Score"].Int32Value);
5     foreach (var scoreItem in scoreTable.ExecuteQuery(query, resolver, null, null))
6     {
7         Console.WriteLine($"{scoreItem.Key} {scoreItem.Value}");
8     }
9
10 public class PlayerScore : TableEntity
11 {
12     public PlayerScore(string gameId, string playerId, int score, long timePlayed)
13     {
14         PartitionKey = gameId;
15         RowKey = playerId;
16         Score = score;
17         TimePlayed = timePlayed;
18     }
19     public int Score { get; set; }
20     public long TimePlayed { get; set; }
21 }

```

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

NOTE: Each correct selection is worth one point

**Answer Area**

	<b>Yes</b>	<b>No</b>
The code queries the Azure table and retrieves the TimePlayed property from the table.	<input type="radio"/>	<input type="radio"/>
The code will display a maximum of twenty records.	<input type="radio"/>	<input type="radio"/>
All records will be sent to the client. The client will display records for scores greater than or equal to 15,000.	<input type="radio"/>	<input type="radio"/>

**Answer:**

**Explanation:**

**Answer Area**

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

**NEW QUESTION 34**

**HOTSPOT**

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

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

You need to configure the SearchParameters class.

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

NOTE Each correct selection is worth one point.

Scenario	Property
Search the index by using regular expressions.	<div style="border: 1px solid #ccc; padding: 5px; margin-bottom: 5px;"> <input type="checkbox"/> CountBy  <input type="checkbox"/> OrderBy  <input type="checkbox"/> SearchMode         </div>
Organize results by counts for name-value pairs.	<div style="border: 1px solid #ccc; padding: 5px; margin-bottom: 5px;"> <input type="checkbox"/> CountBy  <input type="checkbox"/> Filter  <input type="checkbox"/> SearchMode         </div>
List hotels within a specified distance to an airport and that fall within a specific price range.	<div style="border: 1px solid #ccc; padding: 5px;"> <input type="checkbox"/> Order by  <input type="checkbox"/> Top  <input type="checkbox"/> Filter         </div>

**Answer:**

**Explanation:**

Scenario	Property
Search the index by using regular expressions.	<div style="border: 1px solid #ccc; padding: 5px; margin-bottom: 5px;"> <input checked="" type="checkbox"/> CountBy  <input checked="" type="checkbox"/> OrderBy  <input type="checkbox"/> SearchMode         </div>
Organize results by counts for name-value pairs.	<div style="border: 1px solid #ccc; padding: 5px; margin-bottom: 5px;"> <input type="checkbox"/> CountBy  <input checked="" type="checkbox"/> Filter  <input type="checkbox"/> SearchMode         </div>
List hotels within a specified distance to an airport and that fall within a specific price range.	<div style="border: 1px solid #ccc; padding: 5px;"> <input type="checkbox"/> Order by  <input type="checkbox"/> Top  <input checked="" type="checkbox"/> Filter         </div>

**NEW QUESTION 38**

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 39**

You develop a website. You plan to host the website in Azure. You expect the website to experience high traffic volumes after it is published. You must ensure that the website remains available and responsive while minimizing cost. You need to deploy the website. What should you do?

- A. Deploy the website to an App Service that uses the Shared service tie
- B. Configure the App Service plan to automatically scale when the CPU load is high.
- C. Deploy the website to a virtual machin
- D. Configure the virtual machine to automatically scale when the CPU load is high.
- E. Deploy the website to an App Service that uses the Standard service tie
- F. Configure the App Service plan to automatically scale when the CPU load is high.
- G. Deploy the website to a virtual machin
- H. Configure a Scale Set to increase the virtual machine instance count when the CPU load

Answer: C

**NEW QUESTION 43**

**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>

Answer:

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:

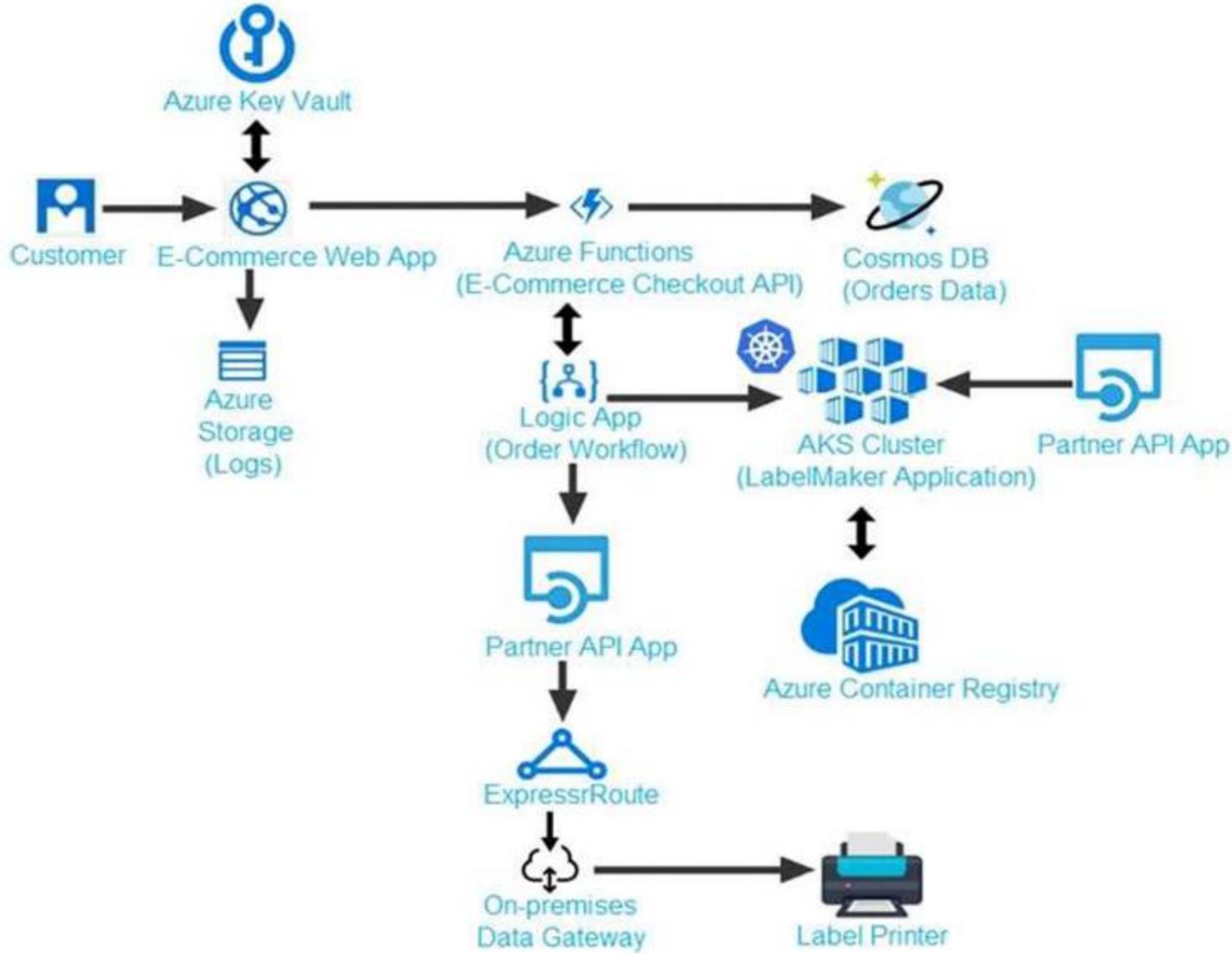
- Users of Coho Winery applications must be able to provide access to documents, resources, and applications to external partners.
- External partners must use their own credentials and authenticate with their organization's identity management solution.
- External partner logins must be audited monthly 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 fail 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,
```

```

23  "tax_lines" : [
24  {
25    "title" : "State Tax",
26    "price" : "3.98",
27    "rate" : 0.06
28  }
29 ],
30  "total_discount" : "5.00"
31  "discount_allocations" : [
32  {
33    "amount" : "5.00",
34    "discount_application_index" : 2
35  }
36  ]
37  }
38 ],
39  "address" : {
40    "state" : "NY",
41    "country" : "Manhattan",
42    "city" : "NY"
43  }
44  }

```

**NEW QUESTION 46**

**HOTSPOT**

You need to retrieve all order line items sorted alphabetically by the city.

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**

```

SELECT l.id AS lineitemid, l.price
FROM [ ]
JOIN [ ]
ORDER BY [ ]

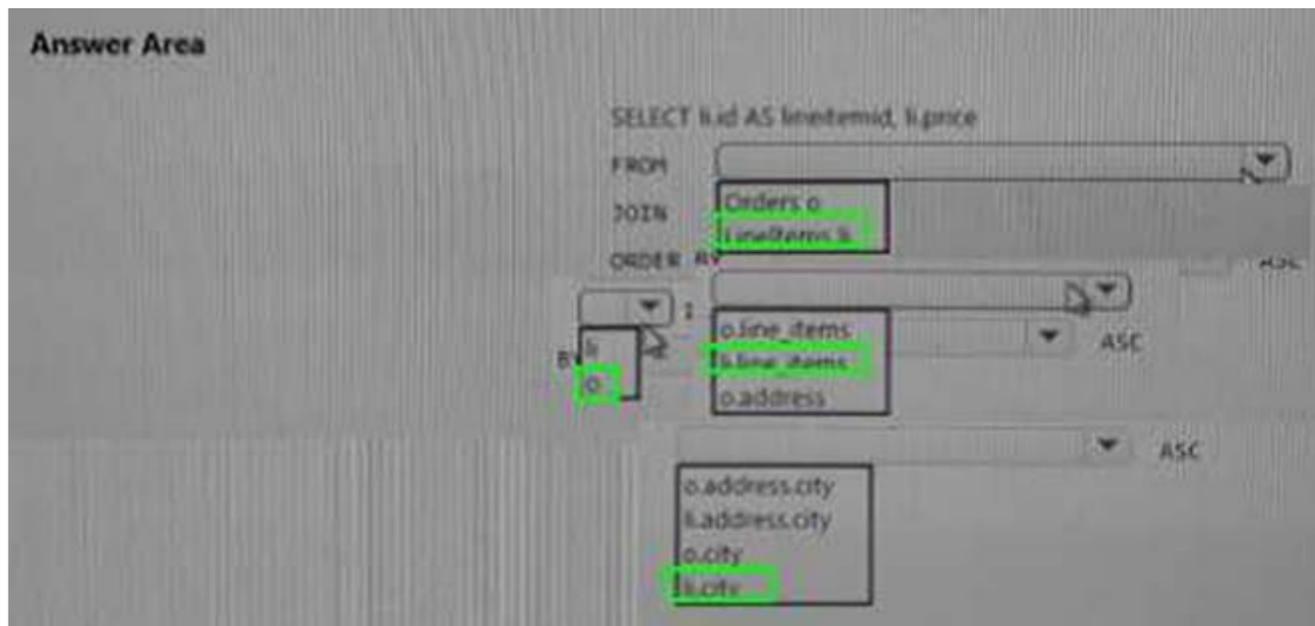
```

o.address.city  
 l.address.city  
 o.city  
 l.city

ASC  
 ASC

**Answer:**

**Explanation:**



**NEW QUESTION 51**

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 55**

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 LabelMaker application security requirement. Solution: Create a RoleBinding and assign it to the Azure AD account. Does the solution meet the goal?

- A. Yes
- B. No

**Answer:** B

**Explanation:** Scenario: The LabelMaker applications must be secured by using an AAD account that has full access to all namespaces of the Azure Kubernetes Service (AKS) cluster.

Permissions can be granted within a namespace with a RoleBinding, or cluster-wide with a ClusterRoleBinding.

References:

<https://kubernetes.io/docs/reference/access-authn-authz/rbac/>

**NEW QUESTION 56**

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 Login Auditing	<ul style="list-style-type: none"> <li>B2C</li> <li>B2B</li> <li>Self-service signup</li> <li>Organizational Units (OU)</li> </ul>
Login Auditing	<ul style="list-style-type: none"> <li>Access review</li> <li>Risky sign-ins report</li> <li>Identity Protection</li> <li>Privileged Identity Management</li> </ul>

**Answer:**

**Explanation:** **Answer Area**



**NEW QUESTION 61**

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: Using the Azure Portal, add Data Masking to the SecurityPin column, and exclude the dbo user. Add a SQL security policy with a filter predicate based on the user identity.

Does the solution meet the goal?

- A. Yes
- B. No

**Answer: B**

**NEW QUESTION 63**

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 65**

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 contained in Azure Key Vault and grant the WebAppIdentity service principal access to the certificate.

Does the solution meet the goal?

- A. Yes
- B. No

**Answer: A**

**NEW QUESTION 66**

**HOTSPOT**

You need to ensure that security requirements are met.

What value should be used for the ConnectionString field on line DB03 in the Database class? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

`"Data Source=datastore.database.windows.net;Initial Catalog=expense;`

▼ ;  
 Integrated Security = SSPI  
 Trusted\_Connection = False  
 Network Library = DBSSOCN  
 MultipleActiveResultSets = True

▼ ;"  
 Encrypt = True  
 Integrated Security = True  
 Failover Partner = False  
 Named Pipes = True

**Answer:**

**Explanation:** Box 1: Integrated Security=SSPI

Integrated security: For all data source types, connect using the current user account.

For SqlConnection you can use Integrated Security=true; or Integrated Security=SSPI; Scenario: All access to Azure Storage and Azure SQL database must use the application's Managed Service Identity (MSI)

Box 2: Encrypt = True

Scenario: All data must be protected in transit. References:

<https://docs.microsoft.com/en-us/dotnet/framework/data/adonet/connection-string-syntax>

**NEW QUESTION 70**

**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)));

**Answer:**

**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 74**

You need to construct the link to the summary report for the email that is sent to users.

What should you do?

- A. Create a SharedAccessBlobPolicy and add it to the containers SharedAccessPolicie
- B. Call GetSharedAccessSignature on the blob and use the resulting link.
- C. Create a SharedAccessBlobPolicy and set the expiry time to two weeks from toda
- D. Call GetSharedAccessSignature on the blob and use the resulting link.
- E. Create a SharedAccessAccountPolicy and call GetshredAccessSignature on storage account and use the resulting link.
- F. Create a SharedAccessBlobPolicy and set the expiry time to two weeks from toda
- G. Call GetSharedAccessSignature on the container and use the resulting link.

**Answer: B**

#### NEW QUESTION 77

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 EnventGridController.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 80**

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 83**

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.



Answer:

Explanation:



**NEW QUESTION 87**

DRAG DROP

You need to add code at line EG15 in EventGridController.cs to ensure that the Log policy applies to all services.

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
topic	<pre> if (     @event[ "data" ] [ " " ] .ToString() == " "     &amp;&amp;     @event[ "data" ] [ " " ] .ToString() == "Microsoft.Web/sites/write" ) </pre>
status	
eventType	
Succeeded	
operationName	
resourceProvider	

**Answer:**

**Explanation:** Box 1: Status

Box 2: Succeeded

Box 3: operationName Scenario: 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.

**NEW QUESTION 92**

You need to ensure that the solution can meet the scaling requirements for Policy Service. Which Azure Application Insights data model should you use?

- A. an Application Insights metric
- B. an Application Insights dependency
- C. an Application Insights trace
- D. an Application Insights event

**Answer:** D

**NEW QUESTION 94**

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 cloud -based email service.

Does the solution meet the goal?

- A. Yes
- B. No

**Answer:** B

**NEW QUESTION 97**

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: Configure notifications in the Azure API Management instance. 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 99

You need to debug the user greeting issue. What should you use?

- A. Bot Framework Channel Inspector
- B. Bot Connector service
- C. Azure Compute Emulator
- D. Azure Application Insights
- E. Bot Framework Emulator

**Answer:** E

**Explanation:** Scenario: The chatbot's greeting does not show the user's name. You need to debug the chatbot locally.  
Debug your bot using an integrated development environment (IDE) such as Visual Studio or Visual Studio Code and the Bot Framework Emulator. You can use these methods to debug any bot locally.  
References:  
<https://docs.microsoft.com/en-us/azure/bot-service/bot-service-debug-bot?view=azure-bot-service-4.0>

#### NEW QUESTION 104

You need to implement the purchase requirement. What should you do?

- A. Use the Bot Framework REST API attachment operations to send the user's voice and the Speech Service API to recognize intents.
- B. Use the Direct line REST API to send the user's voice and the Speech Service API to recognize intents.
- C. Use the Speech Service API to send the user's voice and the Bot Framework REST API conversation operations to recognize intents.
- D. Use the Bot Framework REST API conversation operations to send the user's voice and the Speech Service API to recognize intents.

**Answer:** D

**Explanation:** Scenario: Enable users to place an order for delivery or pickup by using their voice. You must develop a chatbot by using the Bot Builder SDK and Language Understanding Intelligence Service (LUIS). The chatbot must allow users to order food for pickup or delivery.  
The Bot Framework REST APIs enable you to build bots that exchange messages with channels configured in the Bot Framework Portal, store and retrieve state data, and connect your own client applications to your bots. All Bot Framework services use industry-standard REST and JSON over HTTPS.  
The Speech Service API is used to recognize intents. References:  
<https://docs.microsoft.com/en-us/azure/bot-service/rest-api/bot-framework-rest-connector-concepts?view=azure-bot-service-4.0>  
<https://docs.microsoft.com/en-us/azure/cognitive-services/speech-service/how-to-recognize-intents-from-speech-cpp>

#### NEW QUESTION 109

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 110

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