

# Exam Questions AZ-203

Developing Solutions for Microsoft Azure

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



### 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

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

**Answer:**

### NEW QUESTION 4

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

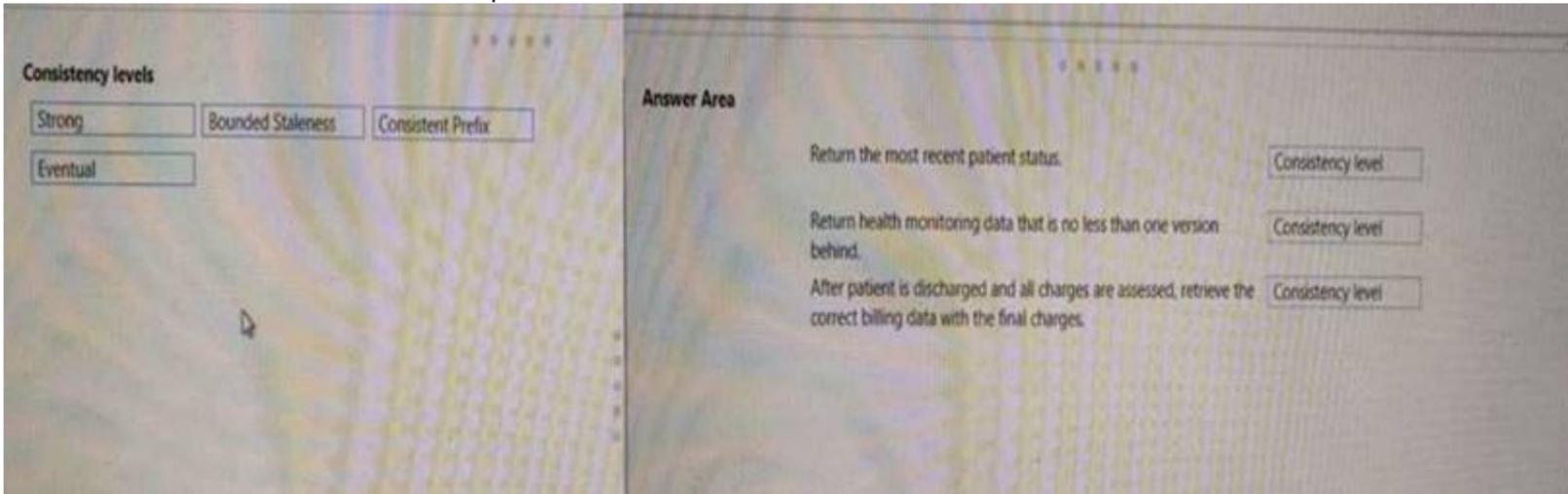
### NEW QUESTION 5

DRAG DROP

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

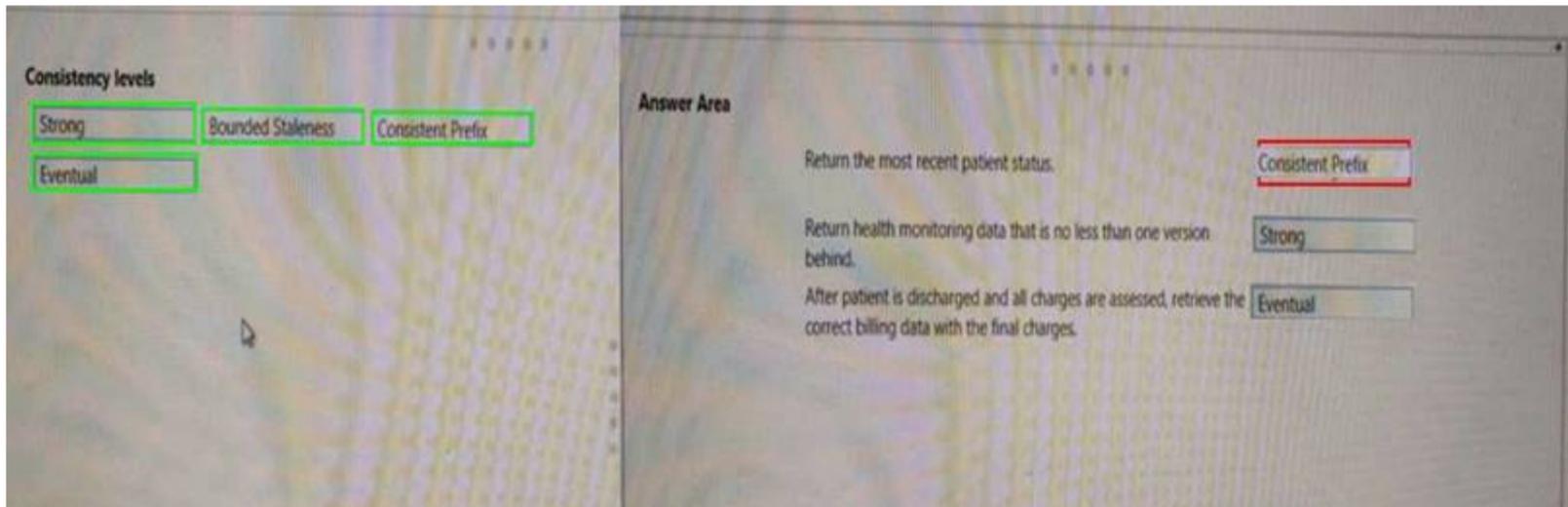
- The most recent patient status details must be retrieved even if multiple users in different locations have updated the patient record

•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 DB 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:

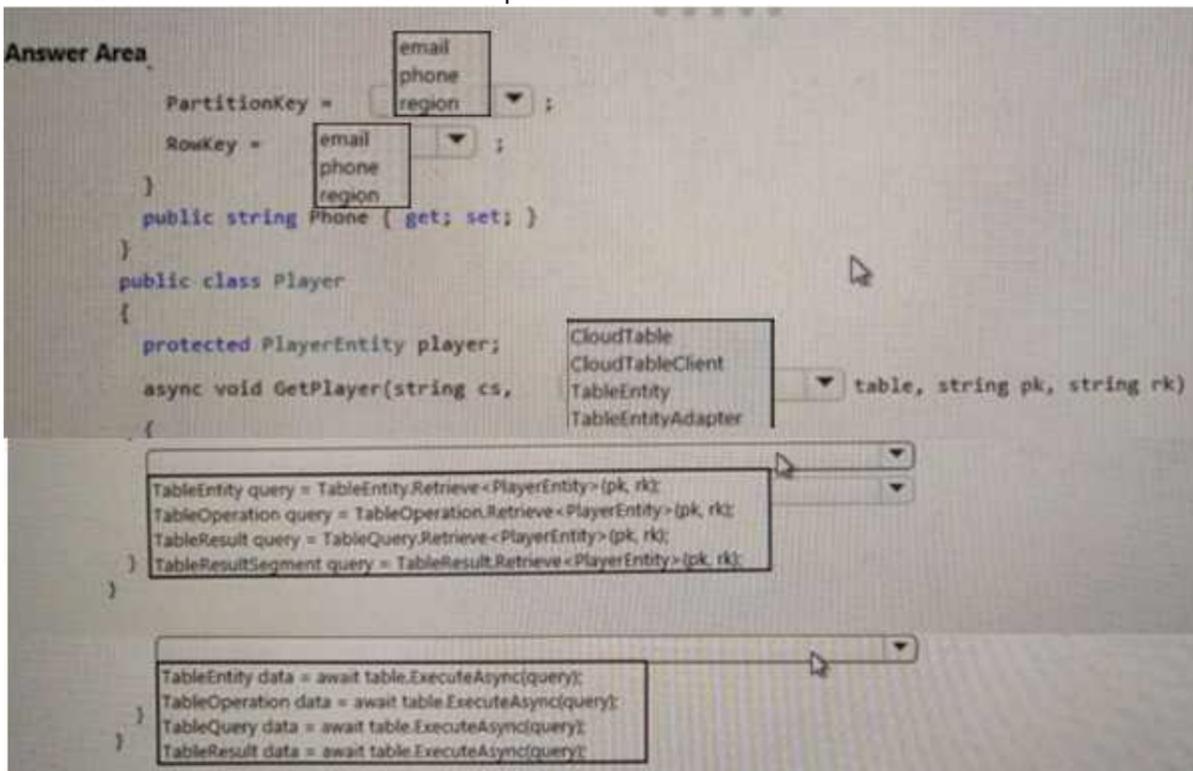
Explanation:



**NEW QUESTION 6**

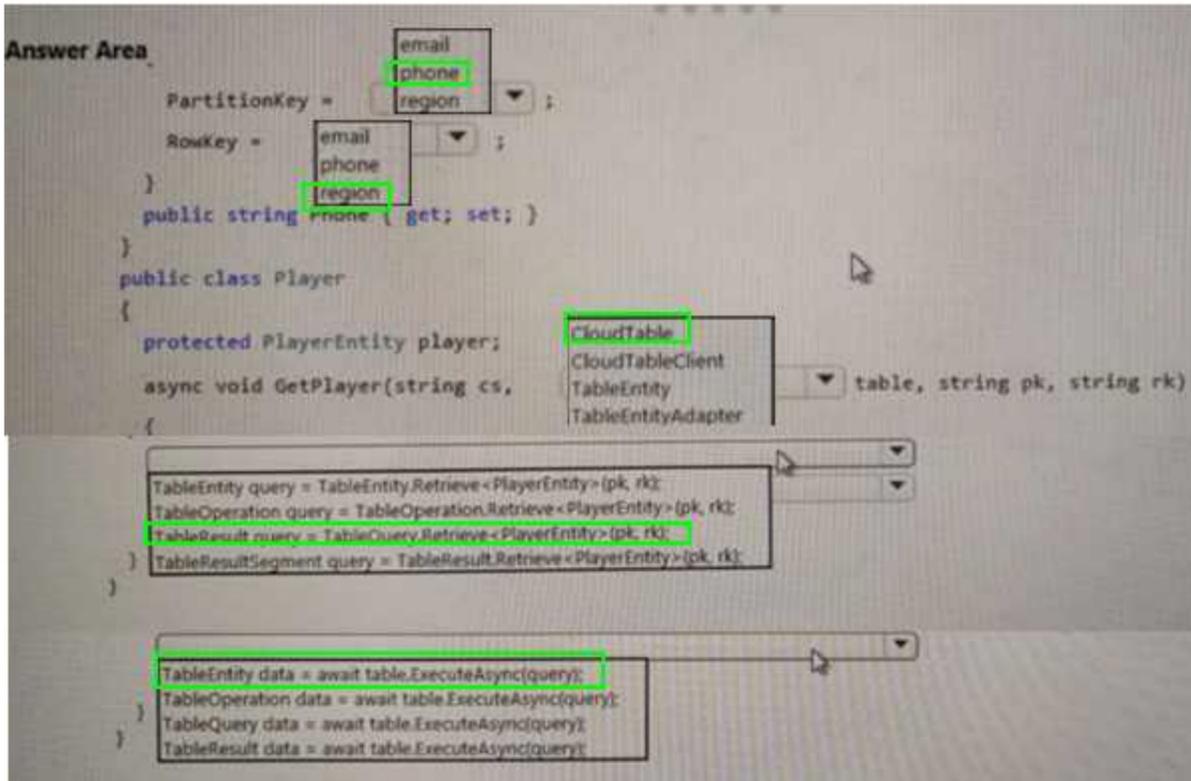
**HOTSPOT**

You are developing an app that manages users for a video game. You plan to store the region, email address, and phone number for the player. Some players may not have a phone number. The player's region will be used to load-balance data.  
 Data for the app must be stored in Azure Table Storage.  
 You need to develop code to retrieve data for an individual player.  
 How should you complete the code? To answer, select the appropriate options in the answer area.  
 NOTE: Each correct selection is worth one point.



Answer:

Explanation:



**NEW QUESTION 7**

You are developing a software solution for an autonomous transportation system. The solution uses large data sets and Azure Batch processing to simulate navigation sets for entire fleets of vehicles. You need to create compute nodes for the solution on Azure Batch. What should you do?

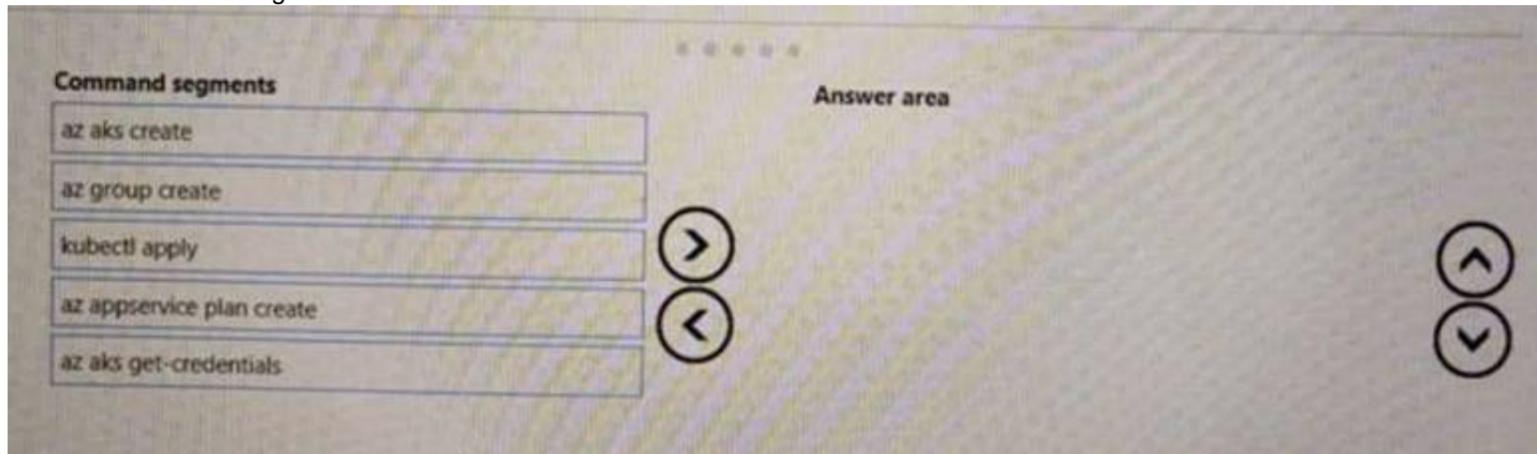
- A. In Python, implement the class: TaskAddParameter
- B. In Python, implement the class: JobAddParameter
- C. In the Azure portal, create a Batch account
- D. In a .NET method, call the method: batchClient.PoolOperations.CreatePool.

Answer: A

**NEW QUESTION 8**

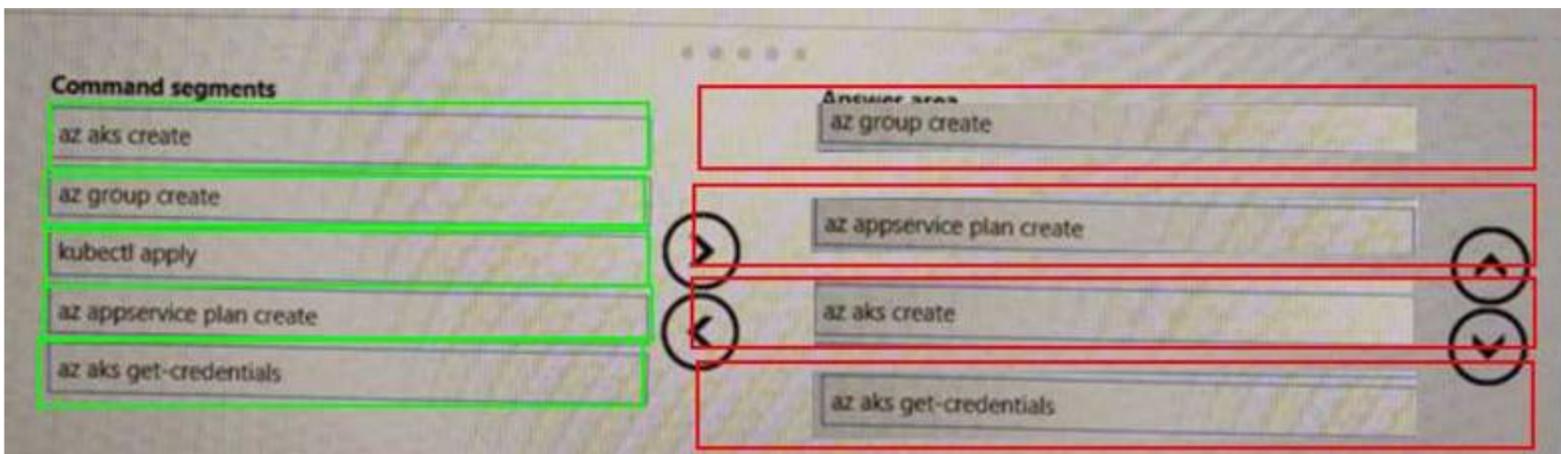
DRAG DROP

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 9**

**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,
                    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 10**

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. <span style="float: right;">⬅</span>	⬆
Configure the web app to the Premium App Service tier. <span style="float: right;">➡</span>	⬆
Switch to an Azure App Services consumption plan.	
Add a Scale rule.	

**Answer:**

**Explanation:** Step 1: Configure the web app to the Standard App Service Tier

The Standard tier supports auto-scaling, and we should minimize the cost. Step 2: Enable autoscaling on the web app

First enable autoscale Step 3: Add a scale rule

Step 4: Add a Scale condition 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 10**

DRAG DROP

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

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

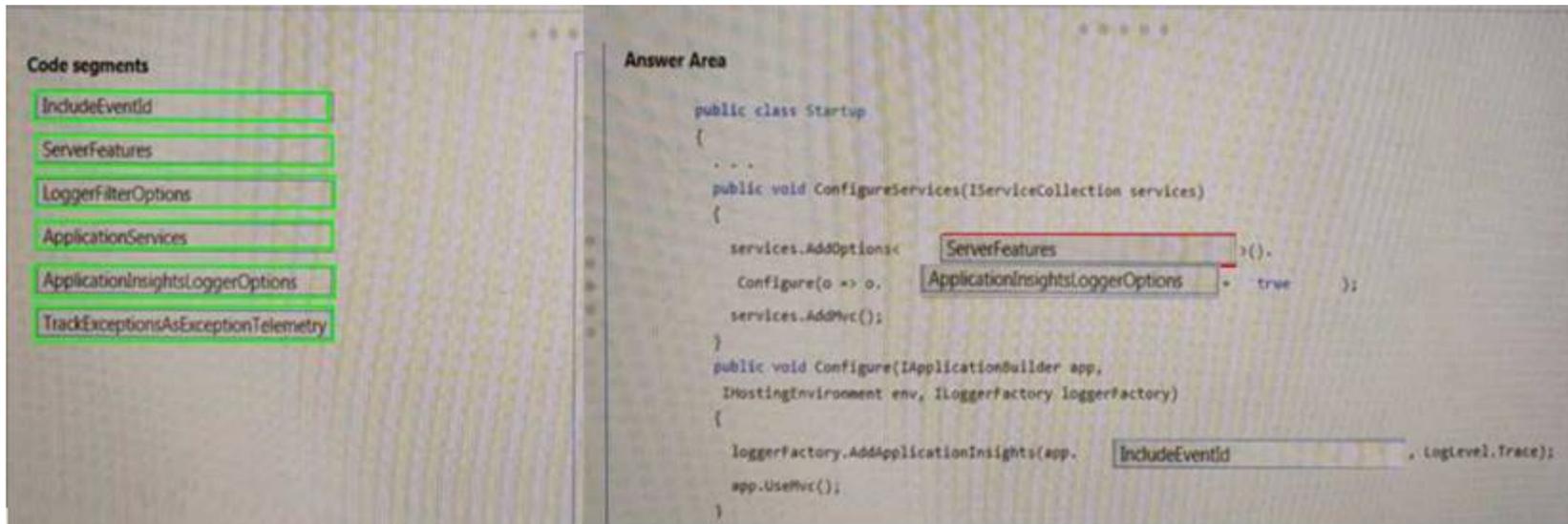
How should you complete the code? To answer, drag the appropriate code segments to the correct locations. Each code segment may be used once, more than once, or not at all. You may need to drag the split bar between panes or scroll to view content.

NOTE: Each correct selection is worth one point.

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

**Answer:**

**Explanation:**

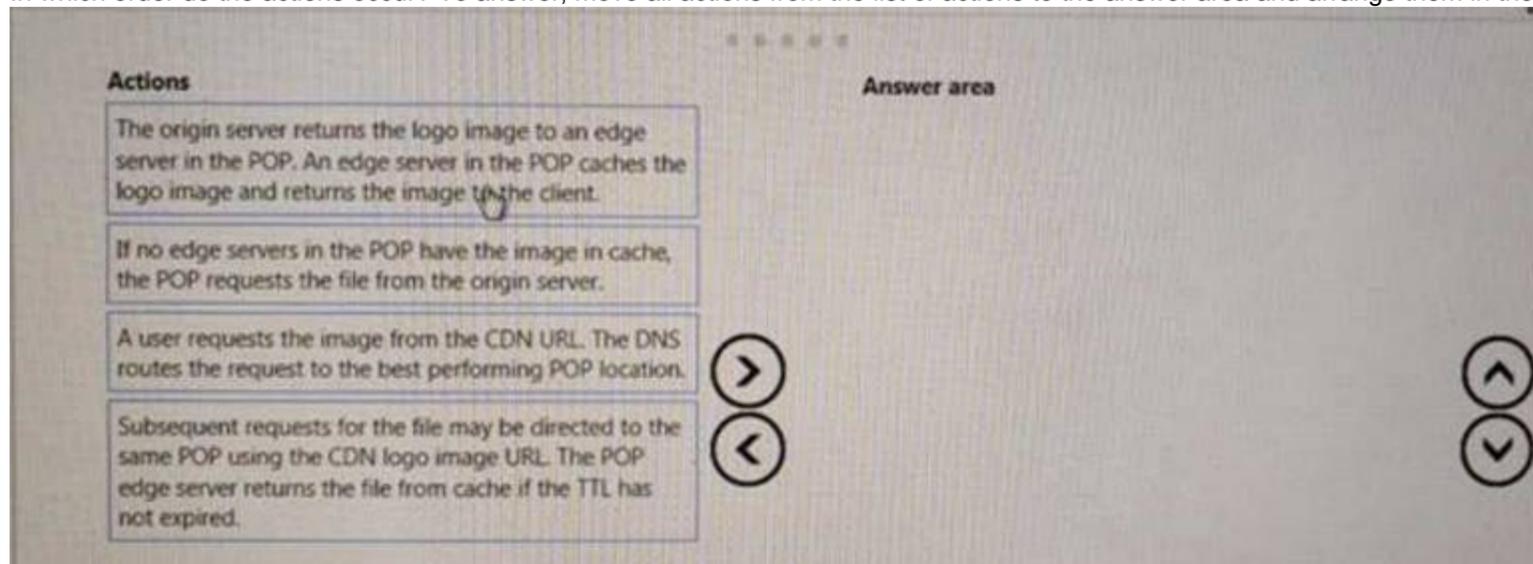


**NEW QUESTION 14**

DRAG DROP

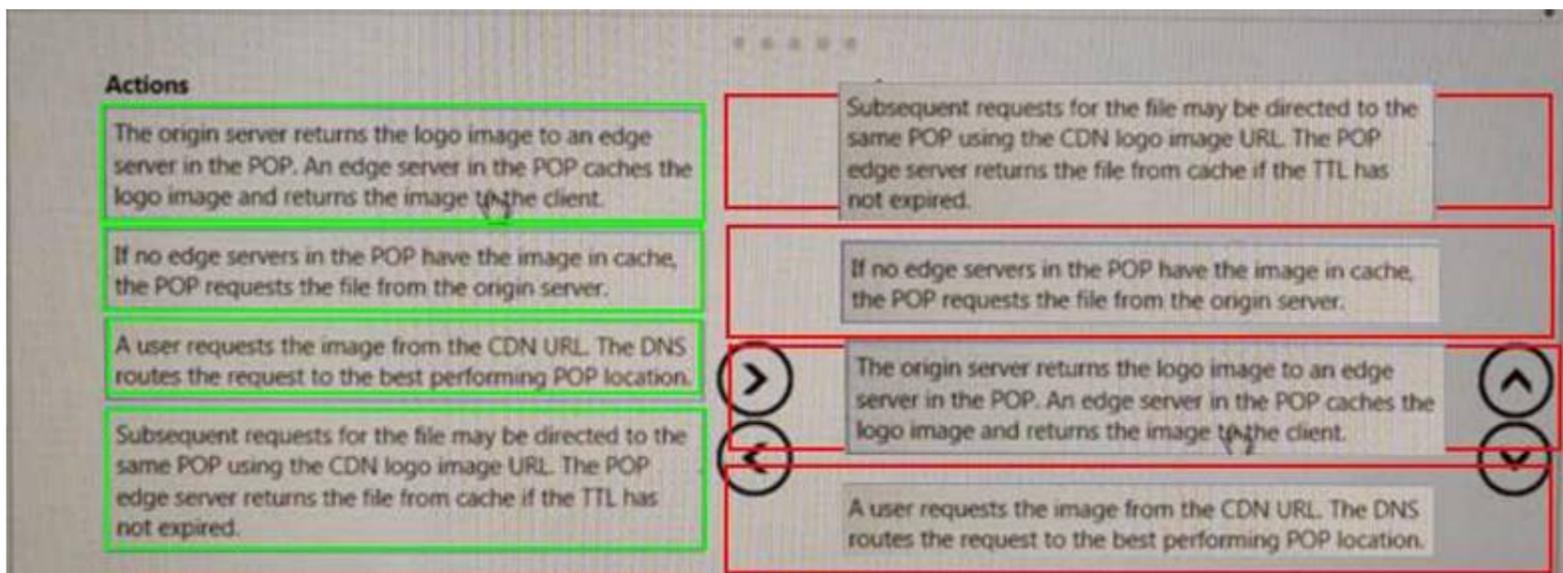
Your company has several websites that use a company logo image. You use Azure Content Delivery Network (CDN) to store the static image. You need to determine the correct process of how the CDN and the Point of Presence (POP) server will distribute the image and list the items in the correct order.

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 17**

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

**Answer:**

**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 19

You are creating a hazard notification system that has a single signaling server which triggers audio and visual alarms to start and stop.

You implement Azure Service Bus to publish alarms. Each alarm controller uses Azure Service Bus to receive alarm signals as part of a transaction. Alarm events must be recorded for audit purposes. Each transaction record must include information about the alarm type that was activated.

You need to implement a reply trail auditing solution.

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

NOTE: Each correct selection is worth one point.

- A. Assign the value of the hazard message SessionID property to the SequenceNumber property.
- B. Assign the value of the hazard message SequenceNumber property to the DeliveryCount property.
- C. Assign the value of the hazard message MessageID property to the DeliveryCount property.
- D. Assign the value of the hazard message SessionID property to the ReplyToSessionId property.
- E. Assign the value of the hazard message MessageID property to the SequenceNumber property.
- F. Assign the value of the hazard message MessageID property to the CorrelationId property.

**Answer:** AB

### NEW QUESTION 23

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 25

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 29**

HOTSPOT

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

Variable name	Value
\$gitrepo	https://github.com/Contos/webapp
\$webappname	webapp1103

You need to automatically deploy code from GitHub to the newly created web app. How should you complete the script? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

The screenshot shows an Azure CLI script editor with the following content:

```

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

```

Below this, there are three dropdown menus for selecting options to complete the script:

- Dropdown 1: Contains options:
  - az webapp create
  - az appservice plan create
  - az webapp deployment
  - az group delete
- Dropdown 2: Contains options:
  - repo-uri \$gitrepo --branch master --manual-integration
  - git clone \$gitrepo
  - plan \$webappname
- Dropdown 3: Contains options:
  - az webapp
  - az appservice plan create
  - az webapp deployment
  - az group delete

Additional options visible in the script include:
 

- source config --name \$webappname
- resource-group myResourceGroup
- repo-uri \$gitrepo --branch master --manual-integration
- git clone \$gitrepo
- plan \$webappname

Answer:

Explanation:

The screenshot shows the same Azure CLI script editor as above, but with green boxes highlighting the correct options for each dropdown menu:

- Dropdown 1: **az webapp** is highlighted.
- Dropdown 2: **git clone \$gitrepo** is highlighted.
- Dropdown 3: **az webapp** is highlighted.

Other options visible in the script include:
 

- source config --name \$webappname
- resource-group myResourceGroup
- repo-uri \$gitrepo --branch master --manual-integration
- git clone \$gitrepo
- plan \$webappname

**NEW QUESTION 34**

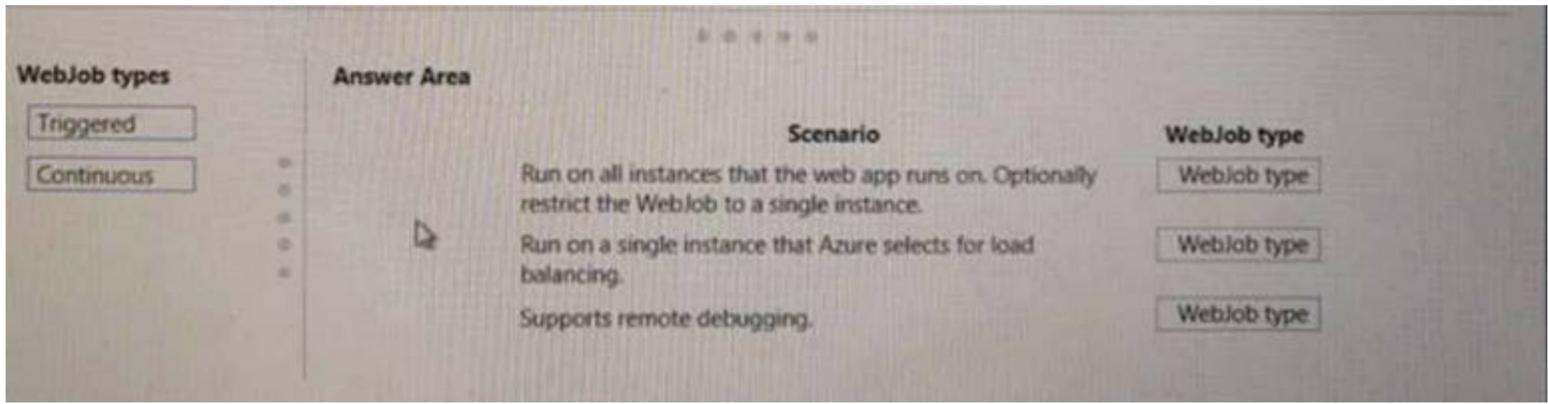
DRAG DROP

You are developing Azure WebJobs.

You need to recommend a WebJob type for each scenario.

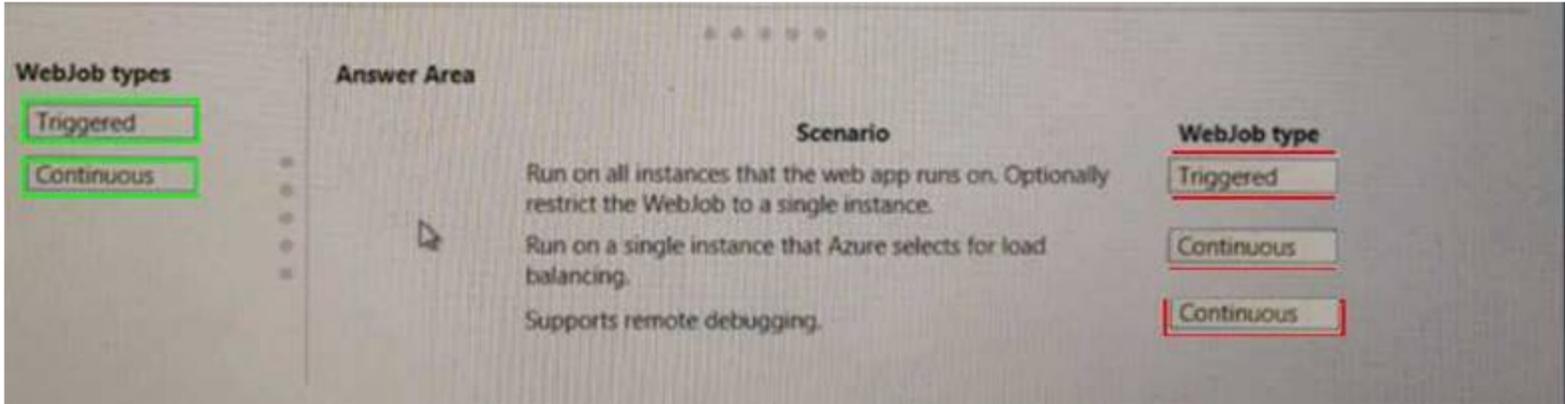
Which WebJob type should you recommend? To answer, drag the appropriate WebJob types to the correct scenarios. Each WebJob type may be used once more than once, or not at all. You may need to drag the split bar between panes or scroll to view content

NOTE: Each correct selection is worth one point.



Answer:

Explanation:



**NEW QUESTION 39**

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 44**

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 cluster
- B. Place the Azure Active Directory account into an Azure AD group
- 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) cluster.
- E. Create a RoleBinding and assign it to the Azure AD account.

Answer: D

**NEW QUESTION 49**

HOTSPOT

You develop a news and blog content delivery app for Windows devices. A notification must arrive on a user's device when there is a new article available for them to view. You need to implement push notifications. 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.

```
string notificationHubName = "contoso_hub";
string notificationHubConnection = "connection_string";

NotificationHubClient hub =
    NotificationHubClientSettings
    NotificationHubJob
    NotificationDetails

NotificationHubClient
NotificationHubClientSettings
NotificationHubJob
NotificationDetails
GetInstallation
CreateClientFromConnectionString
CreateOrUpdateInstallation
PatchInstallation

(notificationHubConnection, notificationHubName);

string windowsToastPayload =
    @"<toast><visual><binding template=""ToastText01""><text id=""1""> +
    @"New item to view" + @"</text></binding></visual></toast>";

try
{
var result =
    await hub. (windowsToastPayload);
    ...
}
}
ScheduleNotificationAsync
```

Answer:

Explanation:

```
string notificationHubName = "contoso_hub";
string notificationHubConnection = "connection_string";

NotificationHubClient hub =
    NotificationHubClientSettings
    NotificationHubJob
    NotificationDetails

NotificationHubClient
NotificationHubClientSettings
NotificationHubJob
NotificationDetails
GetInstallation
CreateClientFromConnectionString
CreateOrUpdateInstallation
PatchInstallation

(notificationHubConnection, notificationHubName);

string windowsToastPayload =
    @"<toast><visual><binding template=""ToastText01""><text id=""1""> +
    @"New item to view" + @"</text></binding></visual></toast>";

try
{
var result =
    await hub. (windowsToastPayload);
    ...
}
}
ScheduleNotificationAsync
```

**NEW QUESTION 52**

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 53**

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 57**

**HOTSPOT**

You are working for a company that designs mobile applications. They maintain a server where player records are assigned to their different games. The tracking system is new and in development.

The application uses Entity Framework to connect to an Azure Database. The database holds a Player table and Game table.

When adding a player, the code should insert a new player record, and add a relationship between an existing game record and the new player record.

The application will call CreatePlayerWithGame with the correct gameId and the playerId to start the process. (Line numbers are included for reference only.)

```

01. namespace ContosoCraft
02. {
03.     public class PlayerDbContext : DbContext
04.     {
05.         public PlayerDbContext() : base ("name=dbConnString" ) { }
06.         public DbSet<Player> Players { get ; set ; }
07.         public DbSet<Game> Games { get ; set ; }
08.         protected override void OnModelCreating(DbModelBuilder modelBuilder)
09.         {
10.             modelBuilder.Entity<Player>().HasMany(x => x.Games).WithMany(x => x.Players);
11.         }
12.     }
13.     internal sealed class dbConfiguration : DbMigrationsConfiguration<PlayerDbContext>
14.     {
15.         public dbConfiguration() { AutomaticMigrationsEnabled = true ; }
16.     }
17.     public class app
18.     {
19.         public void CreatePlayerWithGame(int playerId, int gameId) => AddPlayer(playerId, GetGame(gameId));
20.         public Game GetGame(int gameId)
21.         {
22.             using (var db = new PlayerDbContext())
23.             {
24.                 return db.Games.FirstOrDefault(x => x.GameId == gameId);
25.             }
26.         }
27.         public Player AddPlayer(int playerId, Game game)
28.         {
29.             using (var db = new PlayerDbContext())
30.             {
31.                 var player = new Player
32.                 {
33.                     PlayerId = playerId,
34.                     Games = new List<Game> { game },
35.                 };
36.                 db.Players.Add(player);
37.                 db.SaveChanges();
38.                 return player;
39.             }
40.         }
41.         public class Player
42.         {
43.             public int PlayerId { get ; set; }
44.             public string PlayerName { get ; set; }
45.             public virtual List<Game> Games { get ; set; }
46.         }
47.         public class Game
48.         {
49.             public int GameId { get ; set; }
50.             public string Title { get ; set; }
51.             public string Platform { get ; set; }
52.             public virtual List<Player> Players { get ; set; }
53.         }
54.     }

```

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 will successfully insert a player record.	<input type="radio"/>	<input type="radio"/>
The code has a bug and will insert an additional copy of the Game record with a new Id.	<input type="radio"/>	<input type="radio"/>
The code has a bug and will insert the wrong gameId value.	<input type="radio"/>	<input type="radio"/>

**Answer:**

**Explanation: Answer Area**

	Yes	No
The code will successfully insert a player record.	<input checked="" type="radio"/>	<input type="radio"/>
The code has a bug and will insert an additional copy of the Game record with a new Id.	<input type="radio"/>	<input checked="" type="radio"/>
The code has a bug and will insert the wrong gameId value.	<input type="radio"/>	<input checked="" type="radio"/>

**NEW QUESTION 61**

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 63**

DRAG DROP

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

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

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

- a set-variable policy to store the detected user identity
- a cache-lookup-value policy
- a cache-store-value policy
- a find-and-replace policy to update the response body with the user profile information

To which policy section should you add the policies? To answer, drag the appropriate sections to the correct policies. Each section may be used once, more than once, or not at all. You may need to drag the split bar between panes or scroll to view content

NOTE: Each correct selection is worth one point

**Policy section**

Inbound

Outbound

⋮

**Policy**

Set-variable

Cache-lookup-value

Cache-store-value

Find-and-replace

**Policy section**

policy section

policy section

policy section

policy section

**Answer:**

**Explanation:**

**Policy section**

Inbound

Outbound

⋮

**Policy**

Set-variable

Cache-lookup-value

Cache-store-value

Find-and-replace

**Policy section**

Inbound

Inbound

Outbound

Outbound

**NEW QUESTION 66**

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
HTTP(s) endpoint
Basic
Client cert

Configuration parameter	Value
Target	value
Gateway credentials	value

Answer:

Explanation:

Azure Resource
HTTP(s) endpoint
Basic
Client cert

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

**NEW QUESTION 67**

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


Answer:

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 69**

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; }
}
    
```

Answer:

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 71**

DRAG DROP

You have an application that provides weather forecasting data to external partners. You use Azure API Management to publish APIs. You must change the behavior of the API to meet the following requirements:

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

Which types of policies should you implement? To answer, drag the policy types to the correct scenarios. Each policy type may be used once, more than once, or not at all. You may need to drag the split bar between panes or scroll to view content NOTE: Each correct selection is worth one point.

**Policy types**

- Inbound
- Outbound
- Backend

**Answer Area**

**Requirement**

- Rewrite the request URL to match to the format expected by the web service.
- Remove formatting text from responses.
- Forward the user ID that is associated with the subscription key for the original request to the back-end service.

**Policy type**

- policy type
- policy type
- policy type

**Answer:**

**Explanation:**

**Policy types**

- Inbound
- Outbound
- Backend

**Answer Area**

**Requirement**

- Rewrite the request URL to match to the format expected by the web service.
- Remove formatting text from responses.
- Forward the user ID that is associated with the subscription key for the original request to the back-end service.

**Policy type**

- Inbound
- Backend
- Outbound

**NEW QUESTION 75**

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 76**

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

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

**Answer:** B

**NEW QUESTION 81**

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 85**

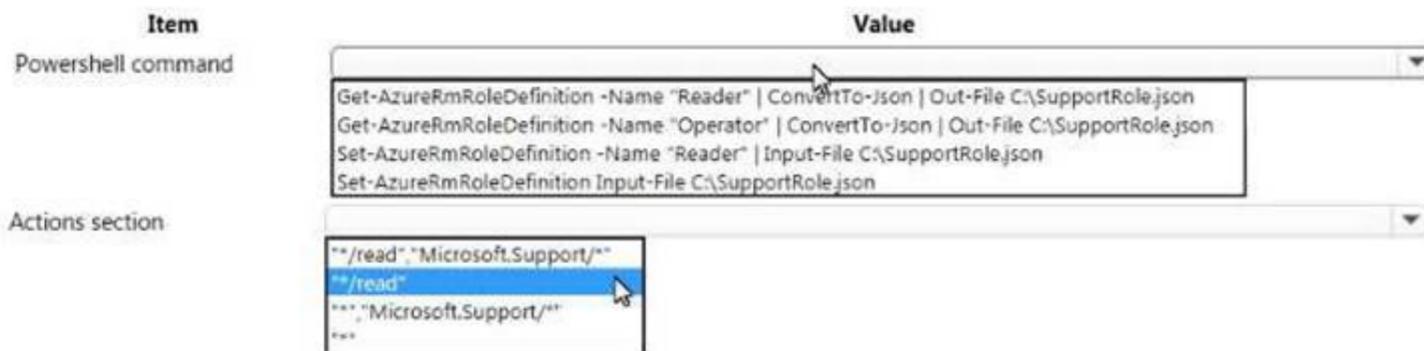
**HOTSPOT**

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.

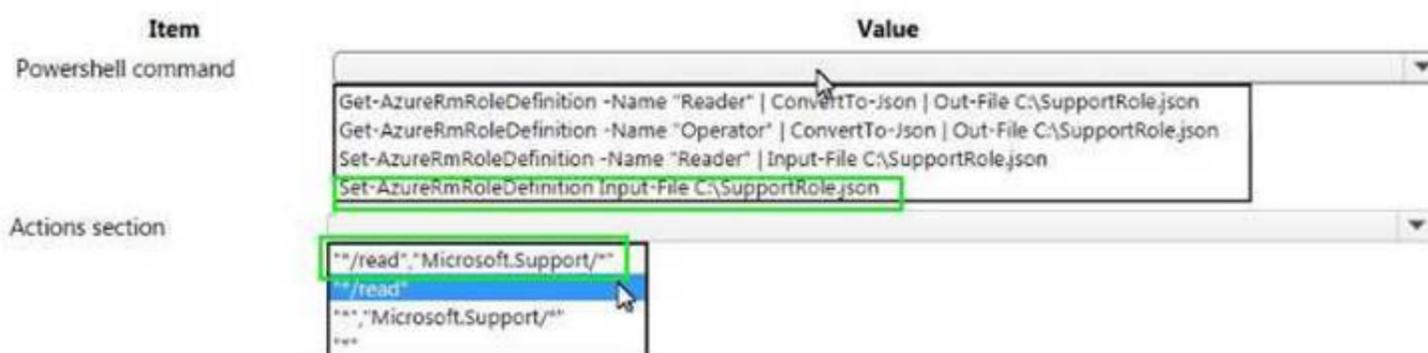
You need to create the custom role.

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



**Answer:**

**Explanation:**



**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:

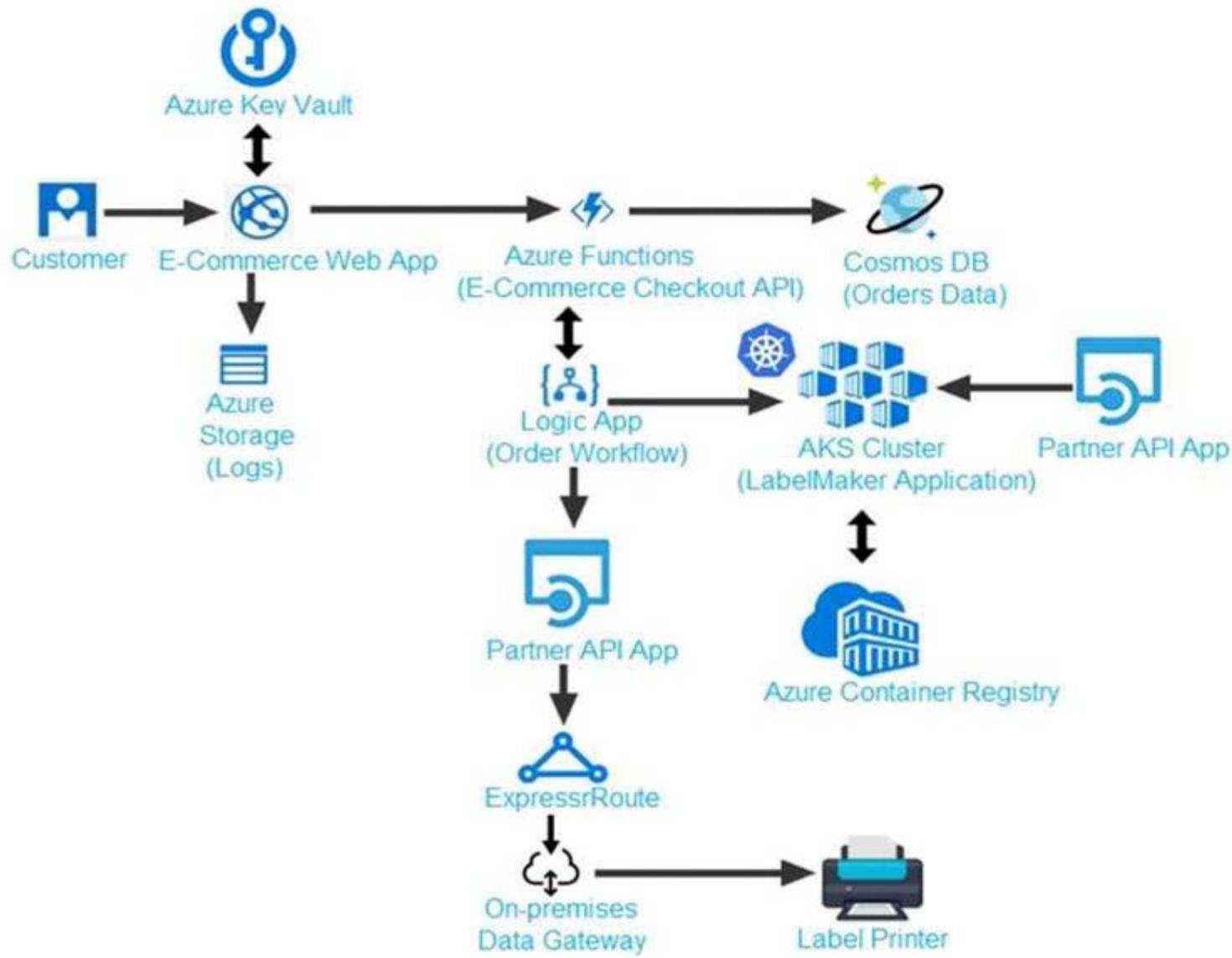
- Users of Coho Winery applications must be able to provide access to documents, resources, and applications to external partners.
- External partners must use their own credentials and authenticate with their organization's identity management solution.
- External partner logins must be audited monthly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

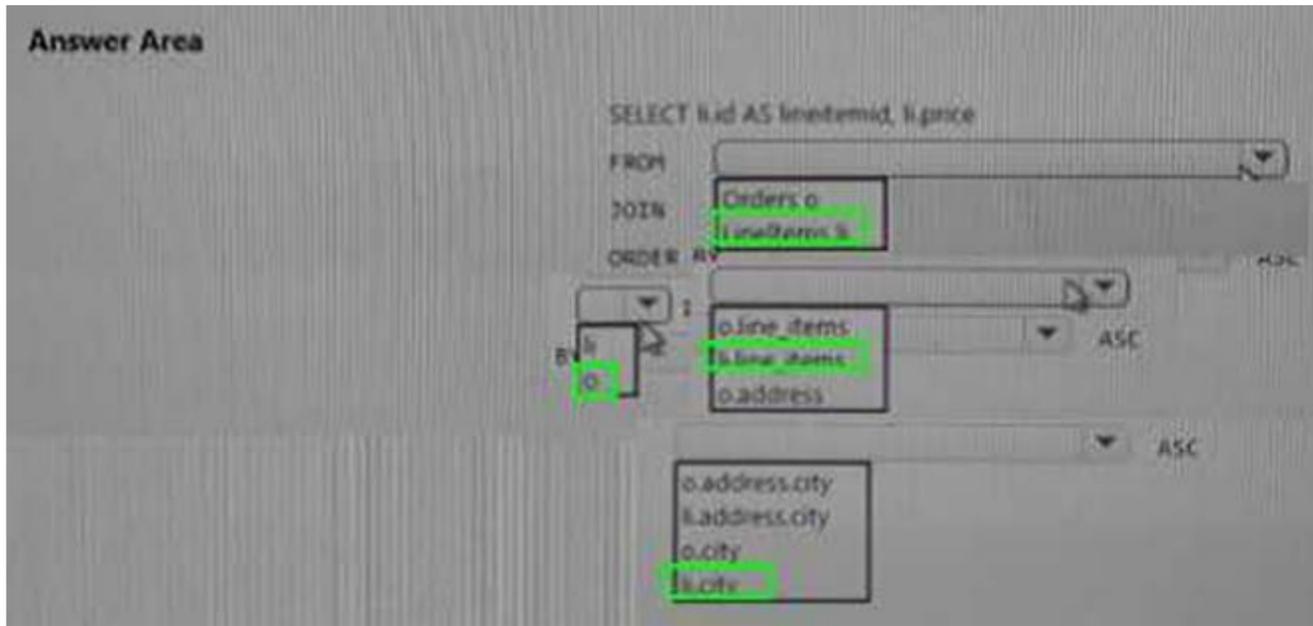
**Architecture**



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,
```





**NEW QUESTION 91**

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.



**Answer:**

**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 96**

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 100**

You need to provision and deploy the order workflow.  
Which three components should you include? Each correct answer presents part of the solution.  
NOTE: Each correct selection is worth one point

- A. Workflow definition
- B. Connections
- C. Resources
- D. Functions
- E. On-premises Data Gateway

**Answer:** CDE

**NEW QUESTION 105**

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 Solution; Create a conditional access policy and assign it to the Azure Kubernetes service cluster.  
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.

Before an Azure Active Directory account can be used with the AKS cluster, a role binding or cluster role binding needs to be created.

References:

<https://docs.microsoft.com/en-us/azure/aks/aad-integration>

**NEW QUESTION 107**

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: Place the Azure Active Directory account into an Azure AD group. Create a ClusterRoleBinding and assign it to the group.

Does the solution meet the goal?

- A. Yes
- B. No

**Answer:** A

**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 108**

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 Microsoft Azure Active Directory service principal and assign it to the Azure Kubernetes Service (AKS) cluster.

Does the solution meet the goal?

- A. Yes
- B. No

**Answer:** A

**NEW QUESTION 111**

You need to access user claims in the e-commerce web app\* What should you do first?

- A. Update the e-commerce web app to read the HTTP request header values.
- B. Assign the Contributor RBAC role to the e-commerce web app by using the Resource Manager create role assignment API.
- C. Write custom code to make a Microsoft Graph API call from the e-commerce web app.
- D. Using the Azure CU enable Cross-origin resource sharing (CORS) from the e-commerce checkout API to the e-commerce web app

**Answer: C**

**NEW QUESTION 116**

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 119**

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 123**

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 128**

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 = DBNLSOCN	
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:

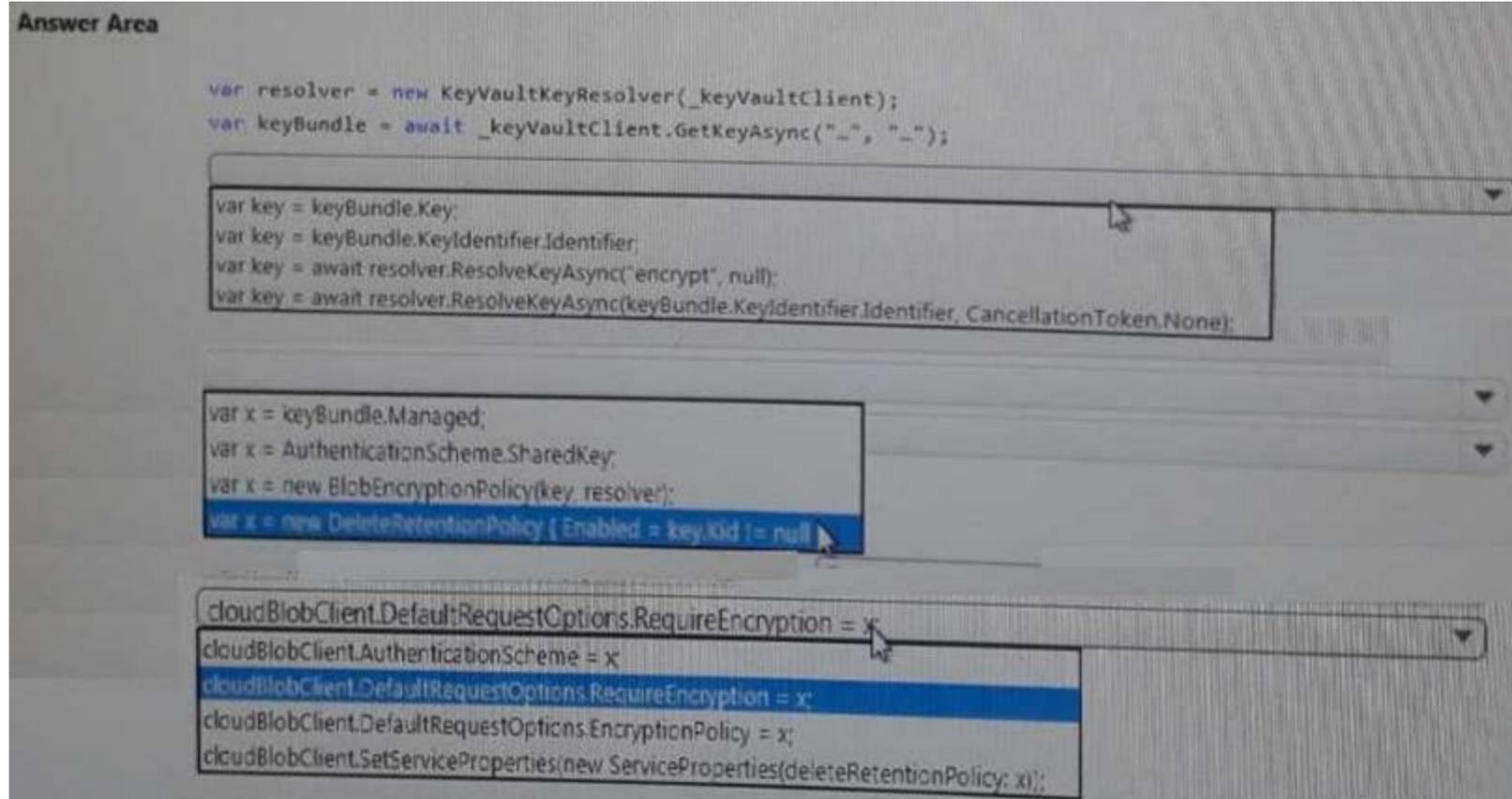
<https://docs.microsoft.com/en-us/dotnet/framework/data/adonet/connection-string-syntax>

**NEW QUESTION 130**

HOTSPOT

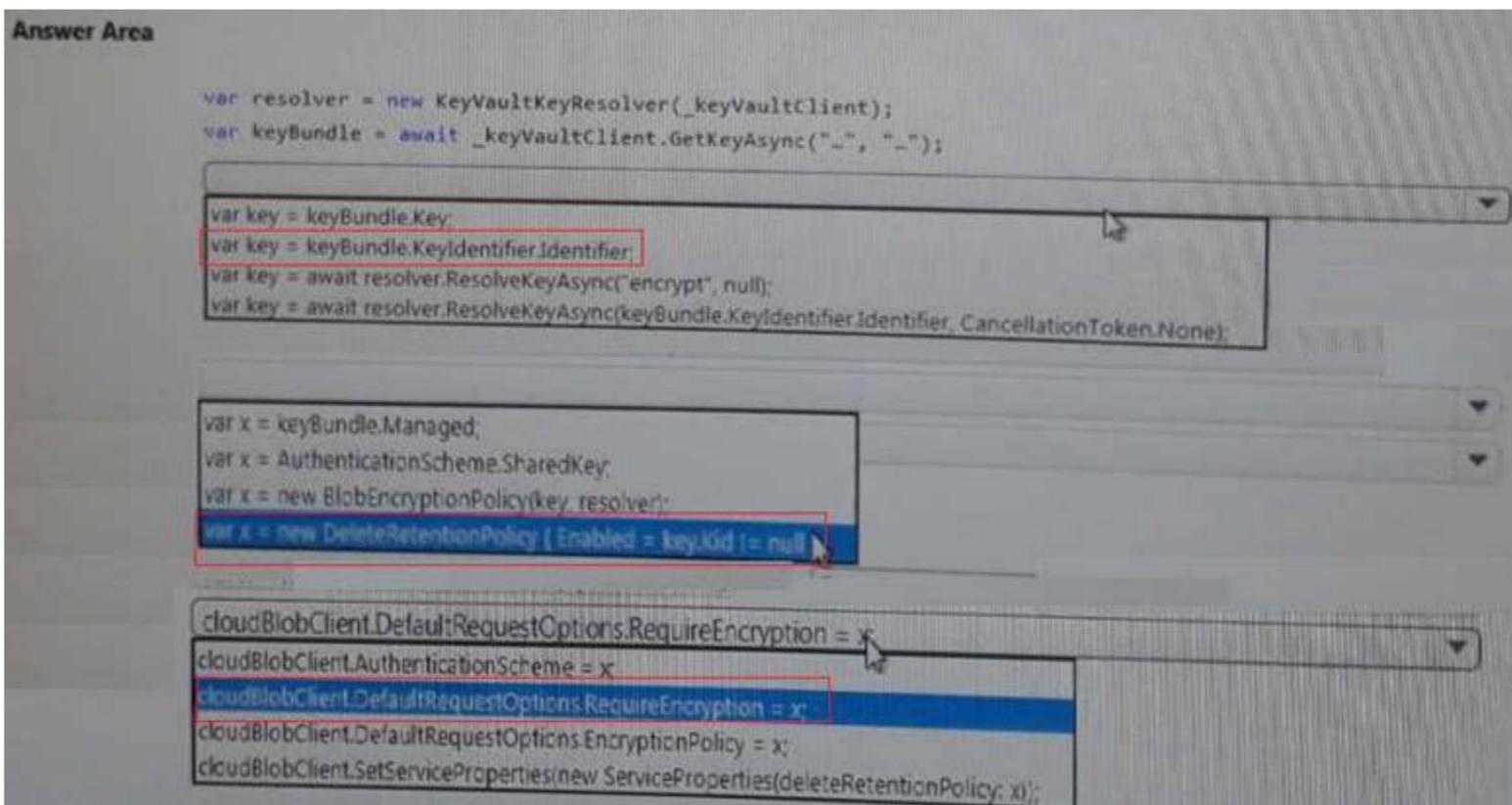
You need to ensure that security policies are met. What code should you add at Line PC26?

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



Answer:

**Explanation:**



**NEW QUESTION 132**

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 GetSharedAccessSignature on storage account and use the resulting link.
- F. Create a SharedAccessBlobPolicy and set the expiry time to two weeks from today.
- G. Call GetSharedAccessSignature on the container and use the resulting link.

**Answer:** B

#### NEW QUESTION 136

You need to resolve the log capacity issue. What should you do?

- A. Implement Application Insights Sampling.
- B. Change the minimum log level in the host.json file for the function.
- C. Create an Application Insights Telemetry Filter.
- D. Set a LogCategoryFilter during startup.

**Answer:** A

#### NEW QUESTION 139

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 143

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 subscription for all authentication that delivers messages to an Azure Event Hub. Use the subscription to process signout events.

Does the solution meet the goal?

- A. Yes
- B. No

**Answer:** B

#### NEW QUESTION 146

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 148

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" ] [ " <input type="text"/> "].ToString() == " <input type="text"/> "     &amp;&amp;     @event[ "data" ] [ " <input type="text"/> "].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 152**

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

**Answer:** BD

**NEW QUESTION 156**

DRAG DROP

You need to implement telemetry for non-user actions.

How should you complete the Filter class? 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
<input type="text" value="/health"/>	<pre> public class Filter : <input type="text" value="code segment"/> {     private readonly <input type="text" value="code segment"/> _next;     public Filter(<input type="text" value="code segment"/> next)     {         _next = next;     }     public void Process(ITelemetry item)     {         var x = item as <input type="text" value="code segment"/>;         if (x?.Url.AbsolutePath == "<input type="text" value="code segment"/>")         {             return;         }         _next.Process(item);     } }         </pre>
<input type="text" value="/status"/>	
<input type="text" value="RequestTelemetry"/>	
<input type="text" value="PageViewTelemetry"/>	
<input type="text" value="ITelemetryProcessor"/>	
<input type="text" value="ITelemetryInitializer"/>	

**Answer:**

Explanation:

Code segments

- /health
- /status
- RequestTelemetry
- PageViewTelemetry
- ITelemetryProcessor
- ITelemetryInitializer

Answer Area

```
public class Filter : RequestTelemetry
{
    private readonly ITelemetryProcessor _next;
    public Filter( ITelemetryInitializer next)
    {
        _next = next;
    }
    public void Process(ITelemetry item)
    {
        var x = item as /status;
        if (x?.Url.AbsolutePath == " PageViewTelemetry" )
        {
            return;
        }
        _next.Process(item);
    }
}
```

Case Study: 4

Chatbot Background

Best for You Organics Company is a global restaurant franchise that has multiple locations. The company wants to enhance user experiences and vendor integrations. The company plans to implement automated mobile ordering and delivery services.

Best For You Organics hosts an Azure web app at the URL <https://www.bestforyouorganics.com>.

Users can use the web app to browse restaurant locations, menu items, nutritional, information, and company information. The company developed and deployed a cross-platform mobile app.

Requirements

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 chatbot must meet the following requirements:

- ?Ensure that chatbot endpoint can be accessed only by the Bot Framework connector.
- ?Use natural language processing and speech recognition so that users can interact with the chatbot by using text and voice. Processing must be server-based.
- ?Alert users about promotions at local restaurants.
- ?Enable users to place an order for delivery or pickup by using their voice.
- ?Greet the user upon sign-in by displaying a graphical interface that contains action buttons.
- ?The chatbot greeting interface must match the formatting of the following example:

## Welcome to the Restaurant!



**John Doe**

Sun, Aug 26, 2018

Welcome to Best For You Organics Company! How can we help you today?

**Specials:** Chicken Marsala

**Order Pickup**

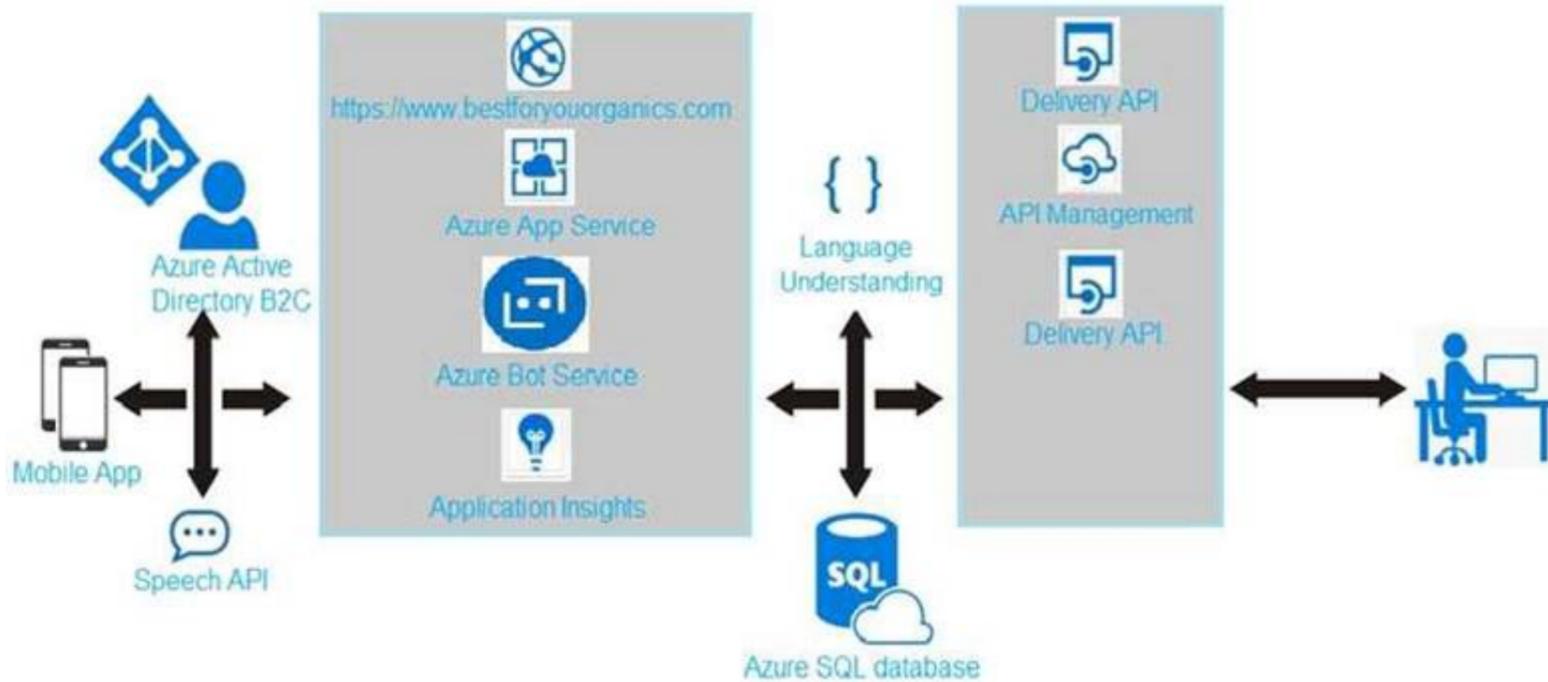
**Order Delivery**

Vendor API

Vendors receive and provide updates for the restaurant inventory and delivery services by using Azure API Management hosted APIs. Each vendor uses their own subscription to access each of the APIs.

APIs must meet the following conditions:

- ?API usage must not exceed 5,000 calls and 50,000 kilobytes of bandwidth per hour per vendor.
  - ?If a vendor is nearing the number of calls or bandwidth limit, the API must trigger email notifications to the vendor.
  - ?APIs must prevent API usage spikes on a per-subscription basis by limiting the call rate to 100 calls per minute.
  - ?The Inventory API must be written by using ASP.NET Core and Node.js.
  - ?The API must be updated to provide an interface to Azure SQL Database. Database objects must be managed by using code.
  - ?The Delivery API must be protected by using the OAuth 2.0 protocol with Azure Active Directory (Azure AD) when called from the Azure web app. You register the Delivery API and web app in Azure AD. You enable OAuth 2.0 in the web app.
  - ?The delivery API must update the Products table, the Vendor transactions table, and the Billing table in a single transaction.
- The Best For You Organics Company architecture team has created the following diagram depicting the expected deployments into Azure:



**Delivery API**

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)"
```

**Chatbot greeting**

The chatbot's greeting does not show the user's name. You need to debug the chatbot locally.

**Language processing**

Users report that the bot fails to understand when a customer attempts to order dishes that use Italian names.

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.

**Startup.cs**

```
SU01 namespace DeliveryApi
SU02 {
SU03     public class Startup
SU04     {
SU05         public Startup (Iconfiguration configuration)
SU06         {
SU07             Configuration = configuration ;
SU08         }
SU09         public Iconfiguration Configuration {get ;}
SU10         public void ConfigureServices (IServiceCollection services)
SU11     {
SU12         services.AddDbContext<RestaurantsContext> (opt =>
SU13             opt.UseSqlServer (Configuration.GetSection ("ConnectionStrings") ["RestaurantsDatabase"],
SU14                 sqlServerOptionsAction: sqlOptions =>
SU15                 {
SU16                     ....
SU17             }));
SU18         services.AddMvc ()
SU19         .SetCompatibilityVersion (CompatibilityVersion.Version_2_1) ;
SU20     }
SU21     public void Configure (IApplicationBuilder app)
SU22     {
SU23         app.UseMvc () ;
SU24     }
SU25 }
SU26 }
```

**NEW QUESTION 159**

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 164**

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 169

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 173

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 175

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 176

You need to update the chatbot to greet the user when they sign in.

Which two rich card formats can you use? Each correct answer presents a complete solution.

NOTE: Each correct selection is worth one point

- A. Thumbnail
- B. Adaptive

- C. Sign-in
- D. Hero
- E. Animation

**Answer:** AC

**Explanation:** Scenario: The chatbot greeting interface must match the formatting of the following example:

## Welcome to the Restaurant!



**John Doe**  
 Sun, Aug 26, 2018

Welcome to Best For You Organics Company! How can we help you today?

**Specials:** Chicken Marsala

**Order Pickup**      **Order Delivery**

A message exchange between user and bot can contain one or more rich cards rendered as a list or carousel. The Attachments property of the Activity object contains an array of Attachment objects that represent the rich cards and media attachments within the message.

The Bot Framework currently supports eight types of rich cards:

?Thumbnail Card. A card that typically contains a single thumbnail image, one or more buttons, and text.

?SignIn Card. A card that enables a bot to request that a user sign-in. It typically contains text and one or more buttons that the user can click to initiate the sign-in process.

Incorrect Answers:

B: Animation Card. A card that can play animated GIFs or short videos.

C Hero Card. A card that typically contains a single large image, one or more buttons, and text.

E: Adaptive Card. A customizable card that can contain any combination of text, speech, images, buttons, and input fields.

Note:

?Receipt Card. A card that enables a bot to provide a receipt to the user. It typically contains the list of items to include on the receipt, tax and total information, and other text.

?Video Card. A card that can play videos. References:

<https://docs.microsoft.com/en-us/azure/bot-service/dotnet/bot-builder-dotnet-add-rich-card-attachments?view=azure-bot-service-3.0>

### NEW QUESTION 178

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 181

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