

# 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.

- A. Mastered
- B. Not Mastered

**Answer: A**

**NEW QUESTION 2**

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.

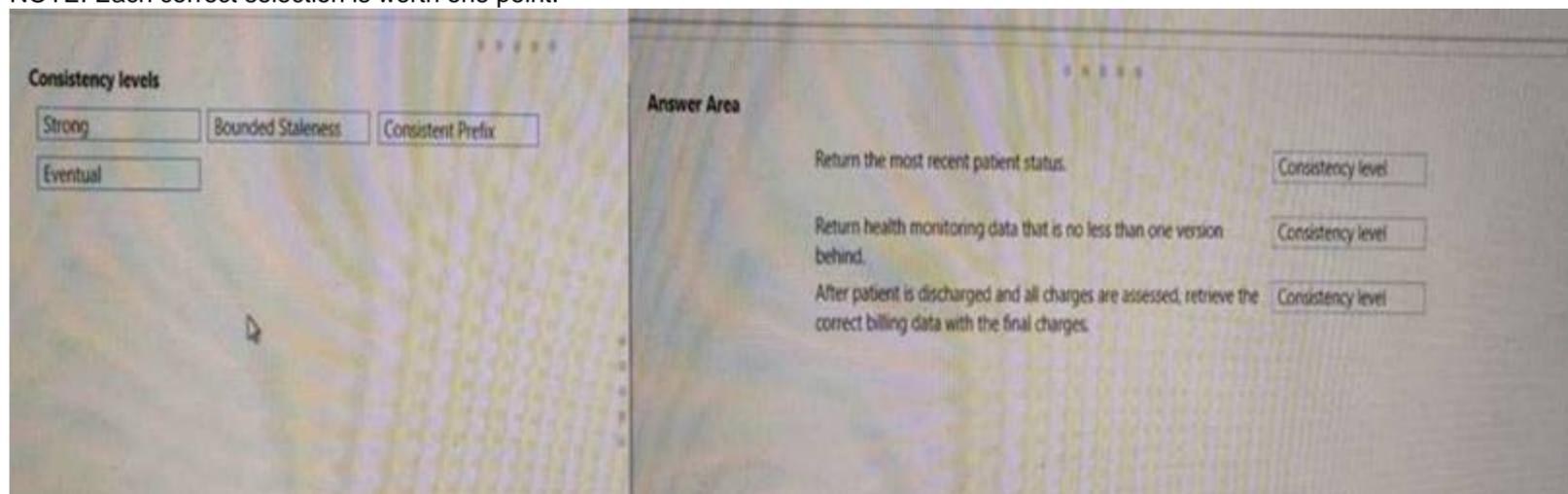
You provision a Cosmos DB NoSQL database and set the default consistency level for the database account to Strong. You set the value for Indexing Mode to Consistent

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.

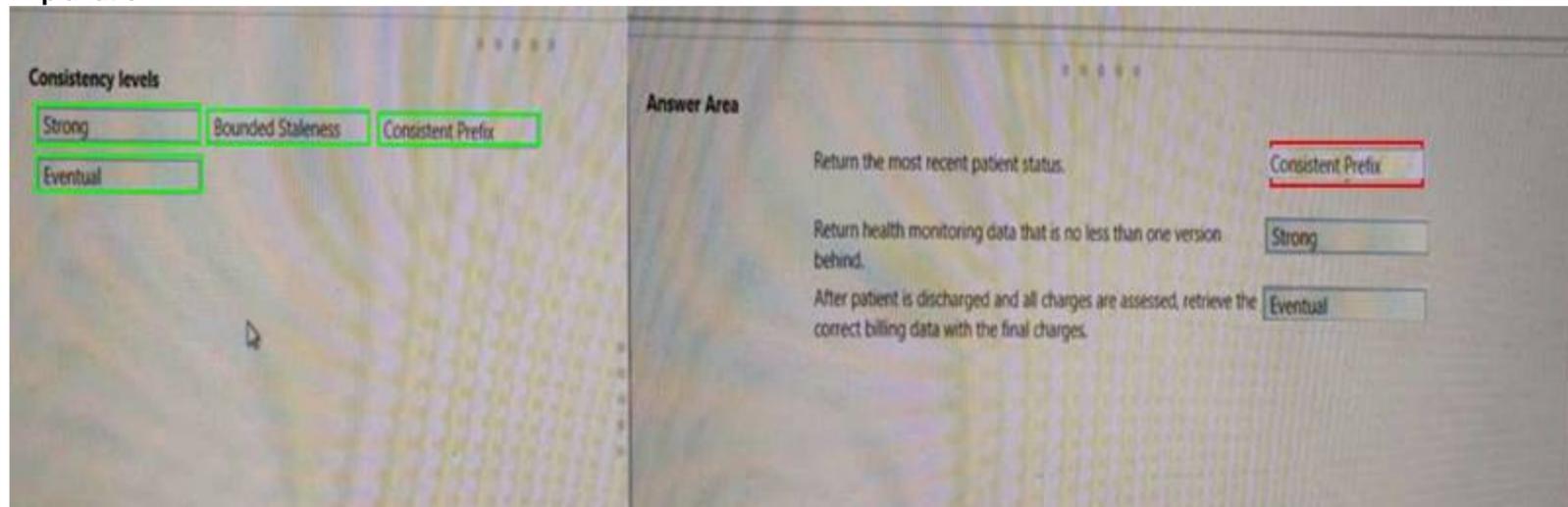
NOTE: Each correct selection is worth one point.



- A. Mastered
- B. Not Mastered

**Answer: A**

**Explanation:**



**NEW QUESTION 3**

HOTSPOT

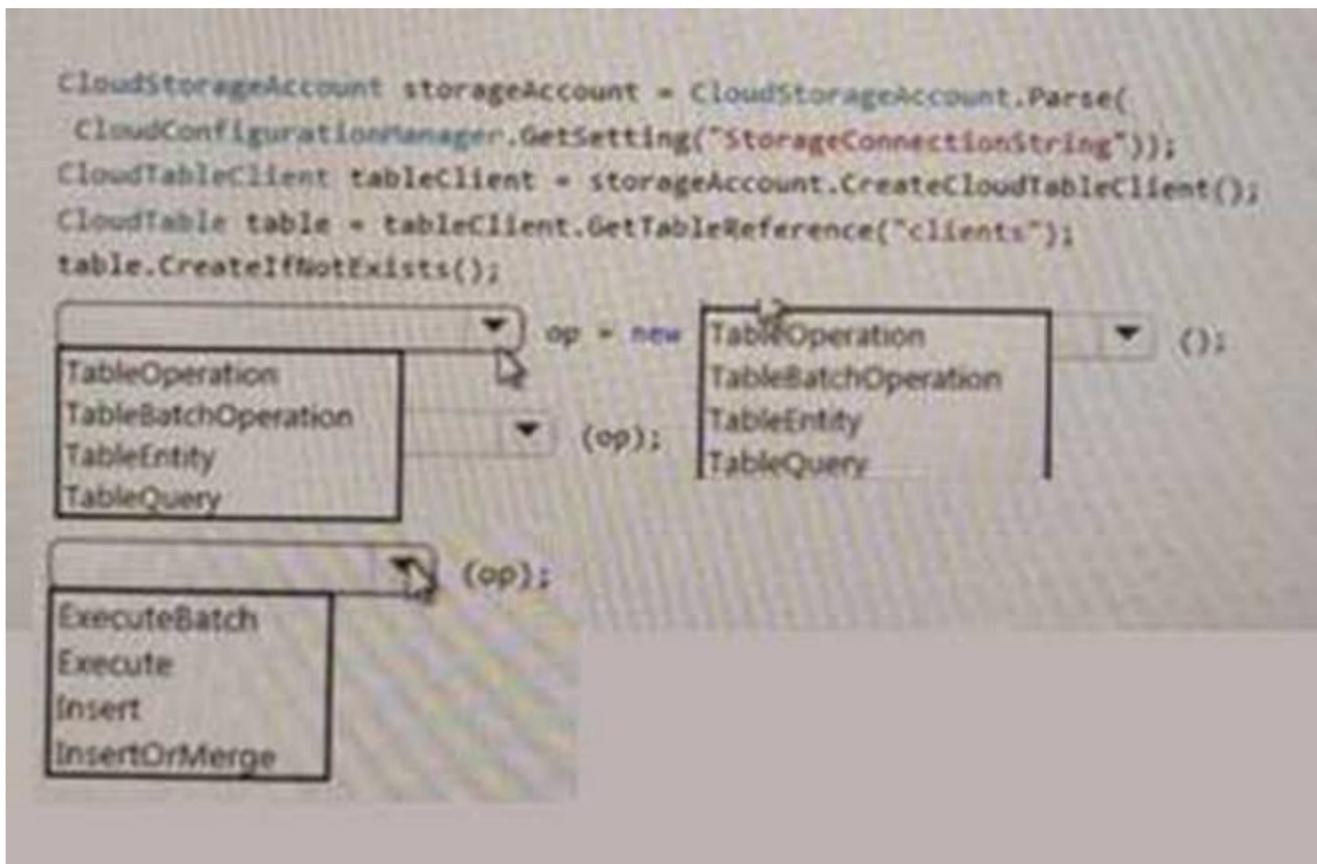
You are developing a data storage solution for a social networking app.

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

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

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

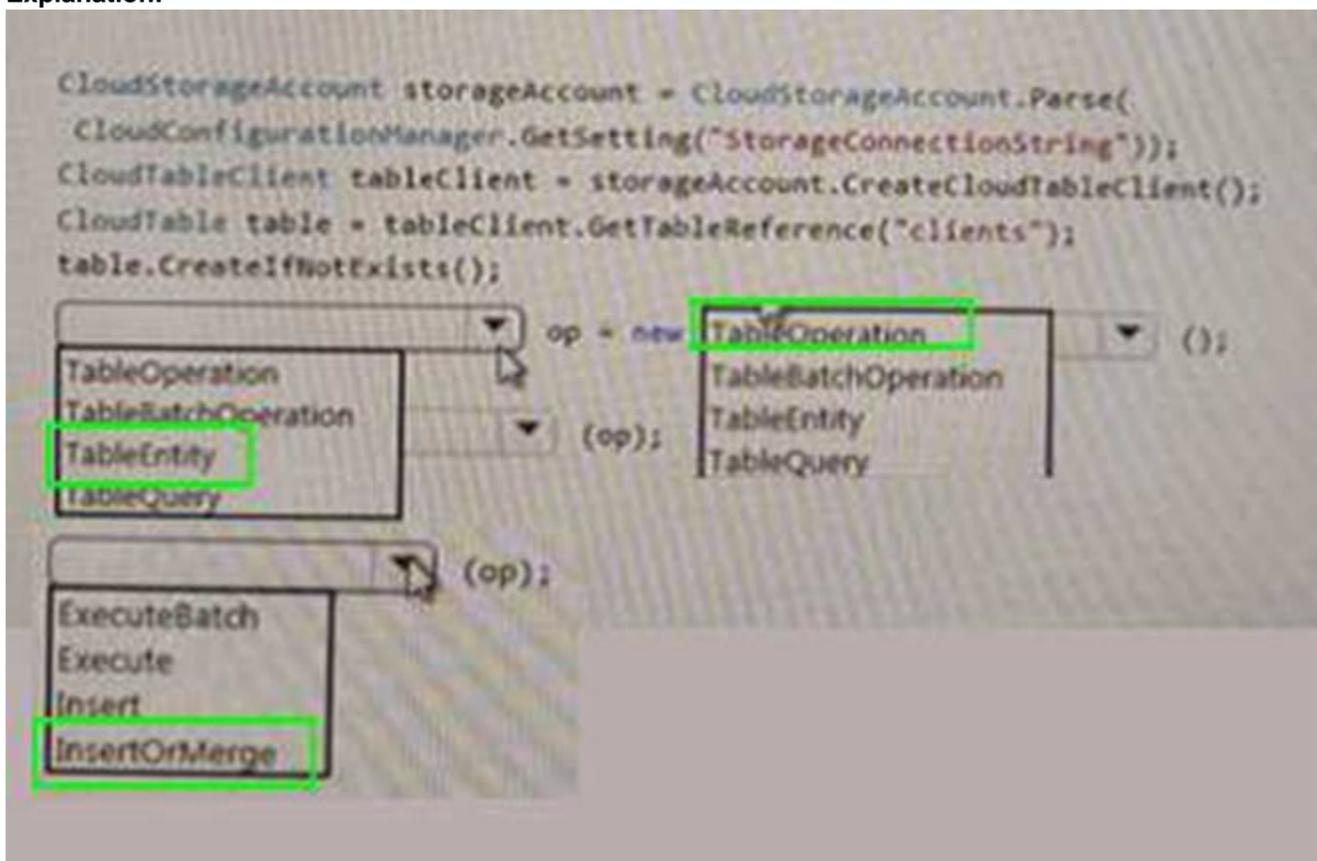
NOTE: Each correct selection is worth one point.



- A. Mastered
- B. Not Mastered

Answer: A

Explanation:



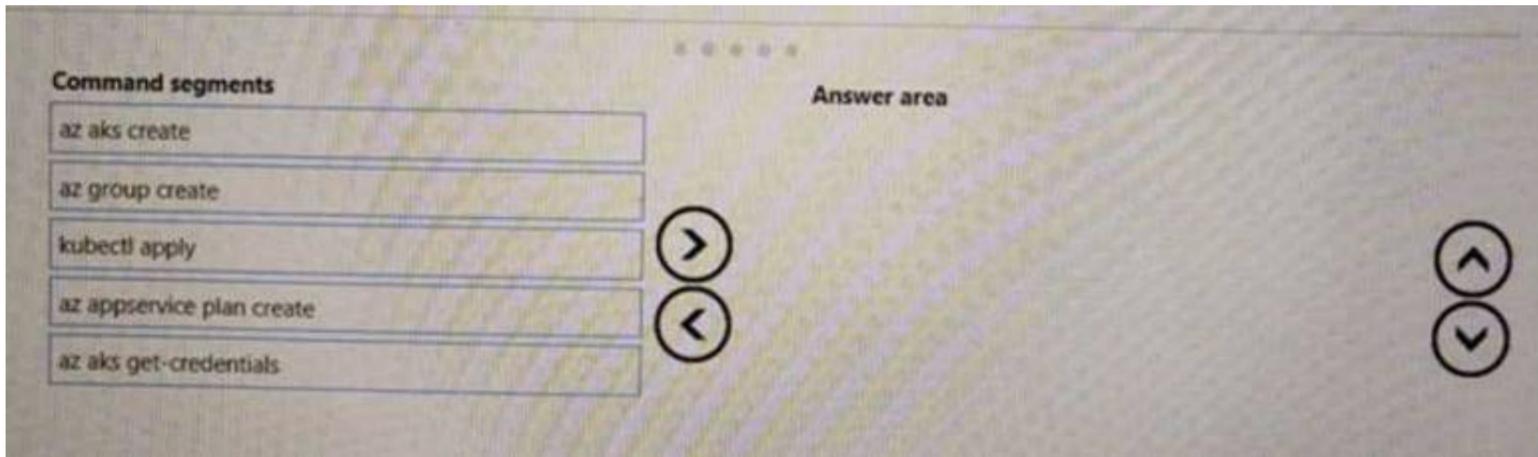
**NEW QUESTION 4**

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.

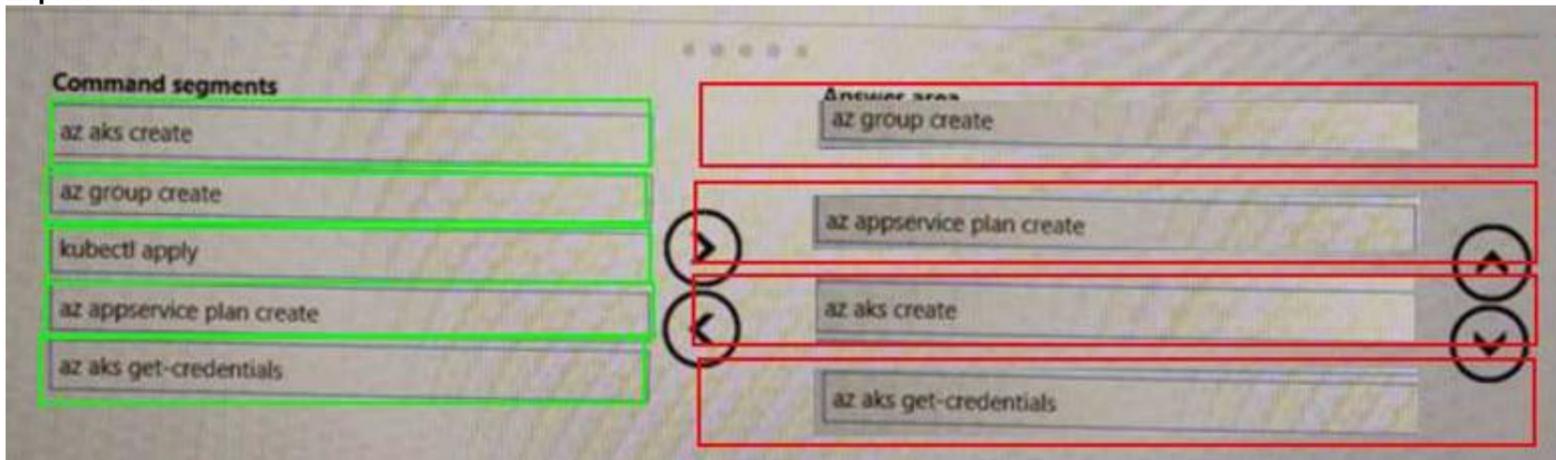
Which four commands should you use to develop the solution? To answer, move the appropriate command segments from the list of command segments to the answer area and arrange them in the correct order.



- A. Mastered
- B. Not Mastered

Answer: A

Explanation:



**NEW QUESTION 5**

DRAG DROP

You develop a web app that uses the tier D1 app service plan by using the Web Apps feature of Microsoft Azure App Service. Spikes in traffic have caused increases in page load times.

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

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

**Actions**

**Answer Area**

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



- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

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

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

First enable autoscale Step 3: Add a scale rule

Step 4: Add a Scale 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 6**

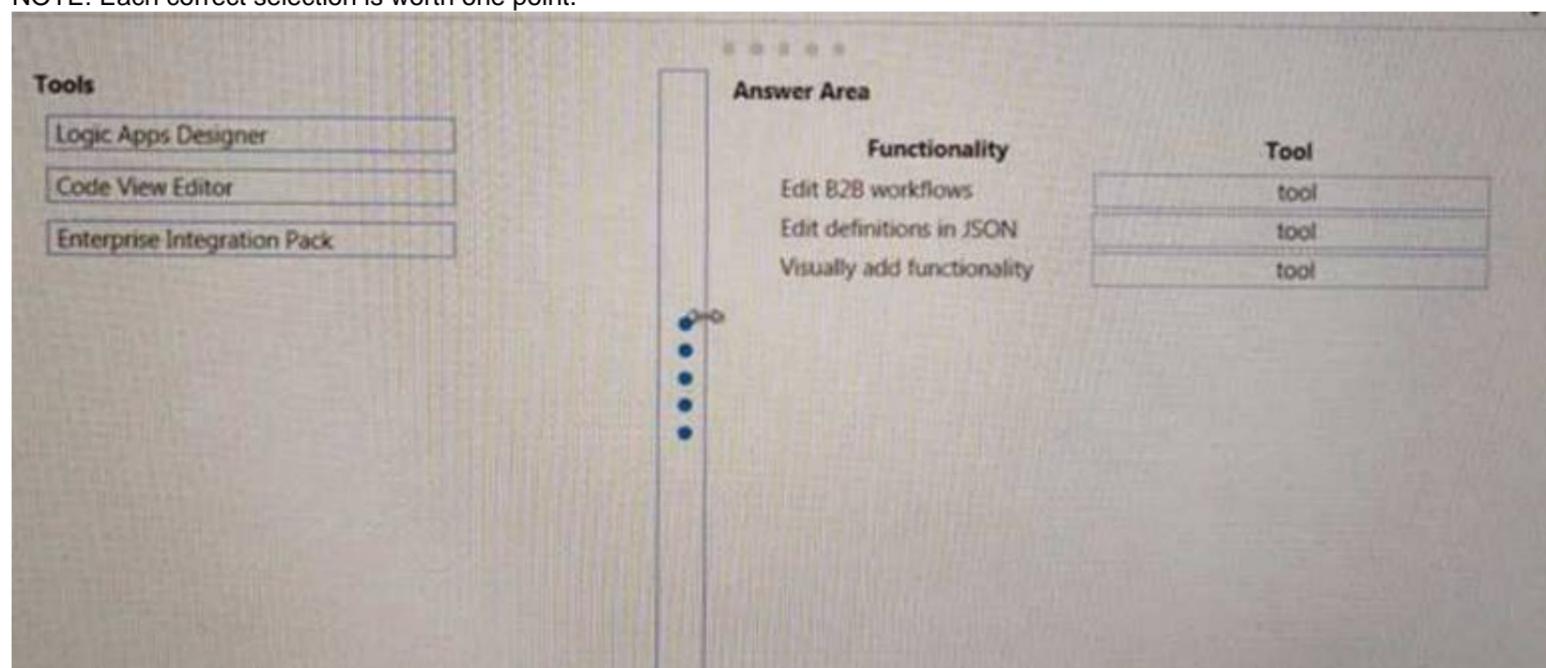
DRAG DROP

You manage several existing Logic Apps.

You need to change definitions, add new logic and optimize these apps on a regular basis.

What should you use? To answer, drag the appropriate tools to the coned functionalities. Each tool may be used once, more than once, or not at all- You may

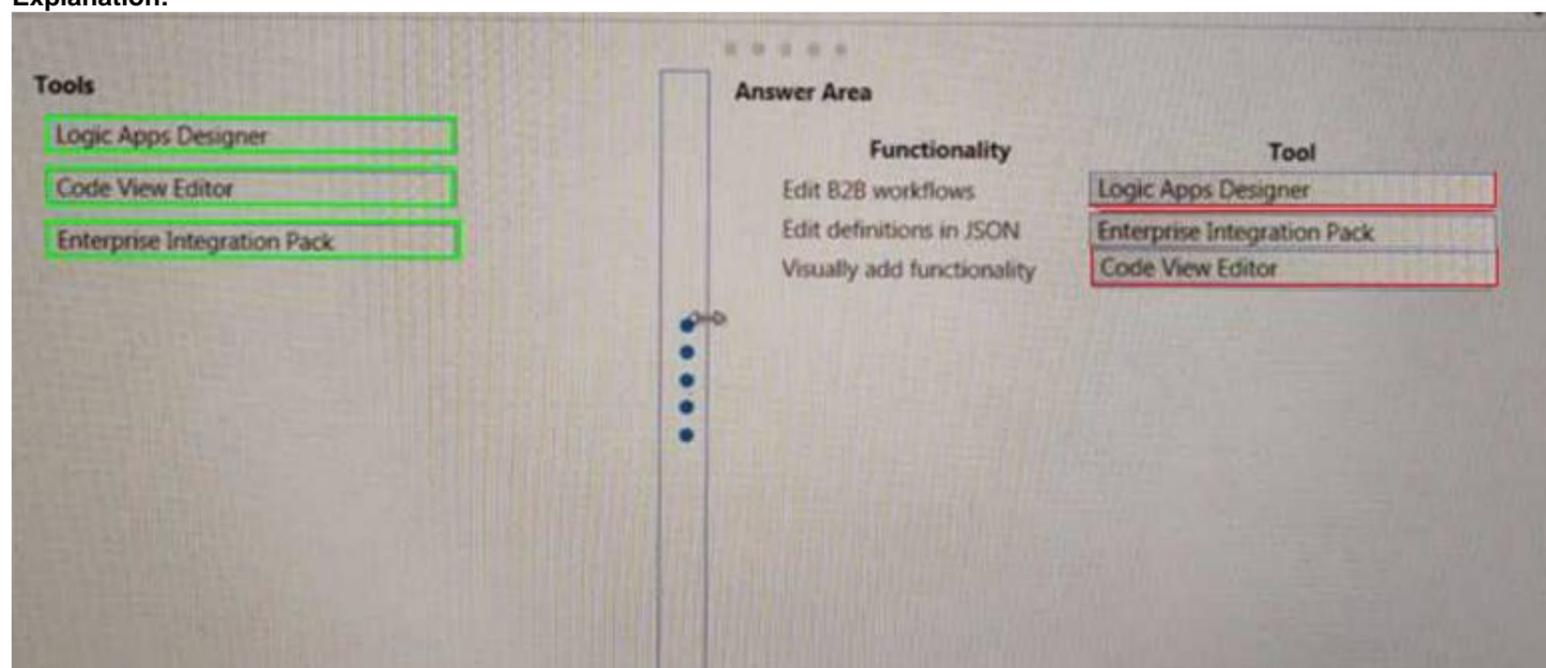
need to drag the split bar between panes or scroll to view content.  
 NOTE: Each correct selection is worth one point.



- A. Mastered
- B. Not Mastered

Answer: A

Explanation:



**NEW QUESTION 7**

You develop a gateway solution for a public facing news API. The news API back end is implemented as a RESTful service and uses an OpenAPI specification. You need to ensure that you can access the news API by using an Azure API Management service instance. Which Azure PowerShell command should you run?

A)

```
Import-AzureRmApiManagementApi -Context $ApiMgmtContext -SpecificationFormat "Swagger" -SpecificationPath $SwaggerPath -Path $Path
```

B)

```
New-AzureRmApiManagementBackend -Context $ApiMgmtContext -Url $Url -Protocol http
```

C)

```
New-AzureRmApiManagement -ResourceGroupName $ResourceGroup -Name $Name -Location $Location -Organization $Org -AdminEmail $AdminEmail
```

D)

```
New-AzureRmApiManagementBackendProxy -Url $ApiUrl
```

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

Answer: D

**NEW QUESTION 8**  
**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"/>

- A. Mastered
- B. Not Mastered

**Answer: A**

**Explanation:**

FutureOrders: SQLFilter  
 HighPriorityOrders: CorrelationFilter CorrelationID only InternationalOrders: SQLFilter  
 Country NOT USA requires an SQL Filter HighQuantityOrders: SQLFilter  
 Need to use relational operators so an SQL Filter is needed. AllOrders: No Filter  
 SQL Filter: SQL Filters - A SqlFilter holds a SQL-like conditional expression that is evaluated in the broker against the arriving messages' user-defined properties and system properties. All system properties must be prefixed with sys. in the conditional expression. The SQL-language subset for filter conditions tests for the existence of properties (EXISTS), as well as for null-values (IS NULL), logical NOT/AND/OR, relational operators, simple numeric arithmetic, and simple text pattern matching with LIKE.  
 Correlation Filters - A CorrelationFilter holds a set of conditions that are matched against one or more of an arriving message's user and system properties. A common use is to match against the CorrelationId property, but the application can also choose to match against ContentType, Label, MessageId, ReplyTo, ReplyToSessionId, SessionId, To, and any user-defined properties. A match exists when an arriving message's value for a property is equal to the value specified in the correlation filter. For string expressions, the comparison is case-sensitive. When specifying multiple match properties, the filter combines them as a logical AND condition, meaning for the filter to match, all conditions must match.  
 Boolean filters - The TrueFilter and FalseFilter either cause all arriving messages (true) or none of the arriving messages (false) to be selected for the subscription.  
 References:  
<https://docs.microsoft.com/en-us/azure/service-bus-messaging/topic-filters>

**NEW QUESTION 9**

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 10**

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.

- A. Mastered
- B. Not Mastered

**Answer: A**

**Explanation:**

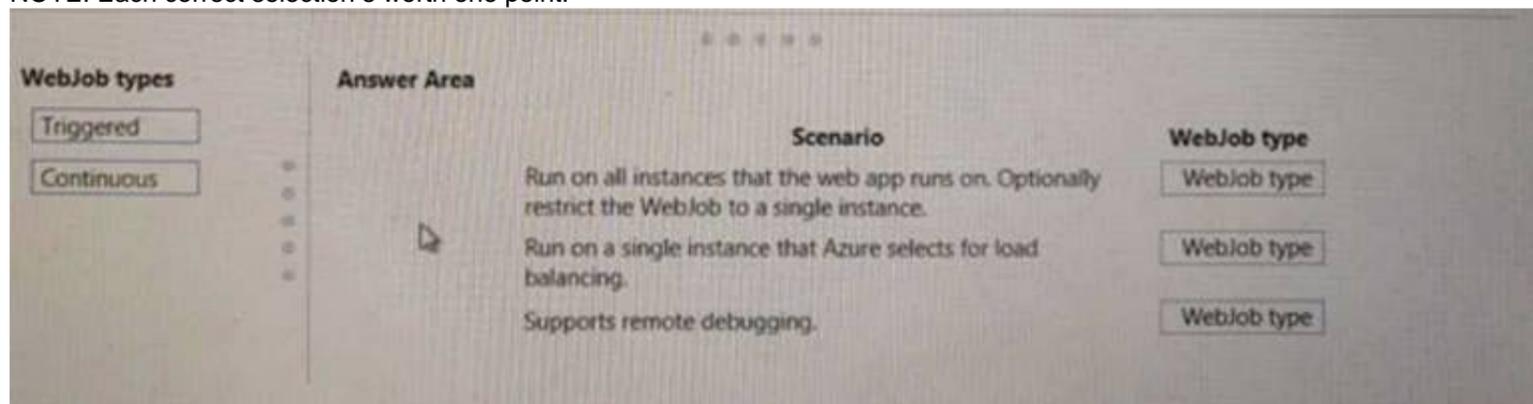
**NEW QUESTION 10**

DRAG DROP

You are developing Azure WebJobs.

You need to recommend a WebJob type for each scenario.

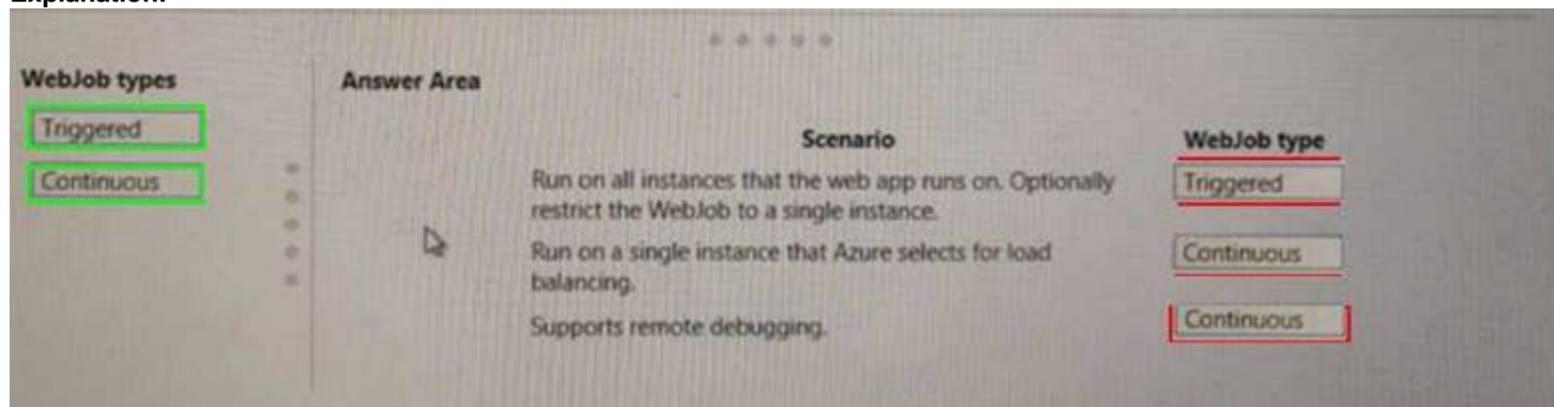
Which WebJob type should you recommend? To answer, drag the appropriate WebJob types to the correct scenarios. Each WebJob type may be used once more than once, or not at all. You may need to drag the split bar between panes or scroll to view content  
 NOTE: Each correct selection s worth one point.



- A. Mastered
- B. Not Mastered

Answer: A

Explanation:



**NEW QUESTION 12**

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	Answer Area
<pre>[Authorize (Policy = "ProviderEditor")] [Authorize (Role = "SysAdmin")]</pre>	<pre>public class PartnerController : Controller {     ...      Public ActionResult Manage ()     {         ...     } }</pre>
<pre>[Authorize (Role = "ProviderAdmin")] [Authorize (Role = "SysAdmin")]</pre>	
<pre>[Authorize (Role = "SysAdmin", "ProviderAdmin")]</pre>	
<pre>[Authorize (Policy = "ProviderEditor", Role= "SysAdmin")]</pre>	

- A. Mastered
- B. Not Mastered

Answer: A

**Explanation:**

Box 1:  
 Allow the ProviderAdmin and SysAdmin roles access to the Partner controller regardless of whether the user holds an editor claim of partner.  
 Box 2:  
 Limit access to the Manage action of the controller to users with an editor claim of partner who are also members of the SysAdmin role.

**NEW QUESTION 14**

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.

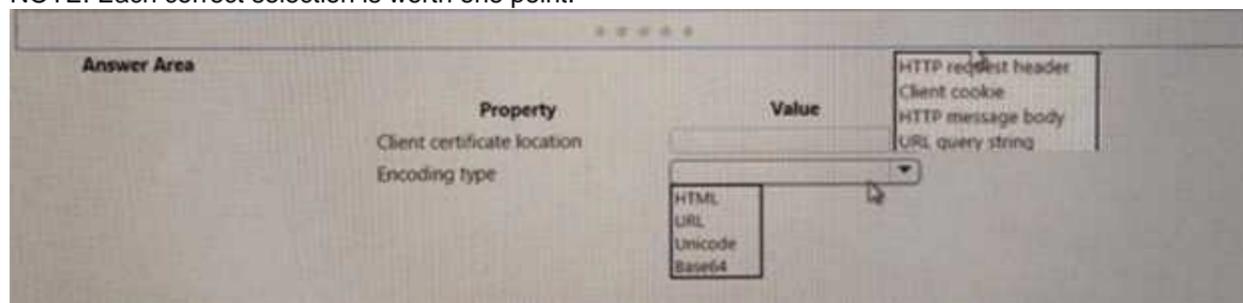
- A. New-AzureRmRoleAssignment
- B. az role assignment create
- C. az role definition create
- D. New-AzureRmRoleDefinition

Answer: C

**NEW QUESTION 18**

**HOTSPOT**

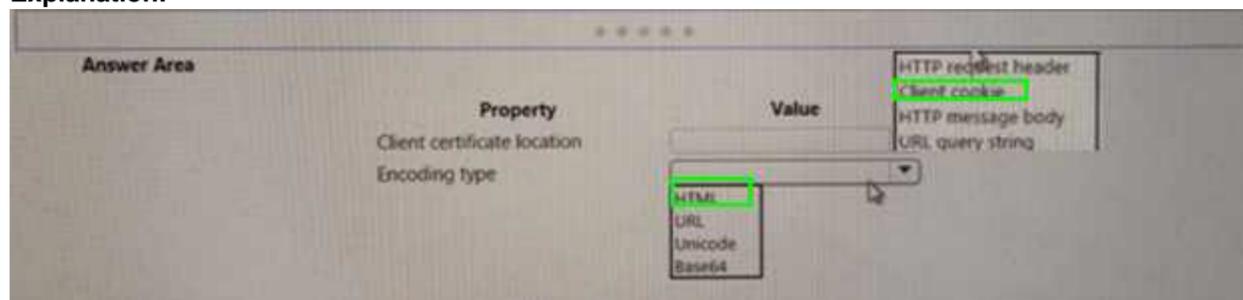
You are developing an Azure Web App. You configure TLS mutual authentication for the web app. You need to validate the client certificate in the web app. To answer, select the appropriate options in the answer area. NOTE: Each correct selection is worth one point.



- A. Mastered
- B. Not Mastered

Answer: A

**Explanation:**



**NEW QUESTION 21**

**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);
    ...
}
    SendWindowsNativeNotificationAsync
    SubmitNotificationHubJobAsync
    ScheduleNotificationAsync
```

- A. Mastered
- B. Not Mastered

Answer: A

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);
    ...
}
    SendWindowsNativeNotificationAsync
    SubmitNotificationHubJobAsync
    ScheduleNotificationAsync
```

**NEW QUESTION 25**

**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"/>

- A. Mastered
- B. Not Mastered

**Answer: A**

**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 26

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 31

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 gray; padding: 5px; width: fit-content;"> <span>CountBy</span>  <span>OrderBy</span>  <span>SearchMode</span> </div>
Organize results by counts for name-value pairs.	<div style="border: 1px solid gray; padding: 5px; width: fit-content;"> <span>Facets</span>  <span>Filter</span>  <span>SearchMode</span> </div>
List hotels within a specified distance to an airport and that fall within a specific price range.	<div style="border: 1px solid gray; padding: 5px; width: fit-content;"> <span>Order by</span>  <span>Top</span>  <span>Filter</span> </div>

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

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

**NEW QUESTION 35**

**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; }

  public string Description { get; set; }
  public string Name { get; set; }

  public string Location { get; set; }
  public string Phone { get; set; }

  public string Description { get; set; }

  public double Rating { get; set; }
  
```

- A. Mastered
- B. Not Mastered

Answer: A

**Explanation:**

```

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

  public string Description { get; set; }
  public string Name { get; set; }

  public string Location { get; set; }
  public string Phone { get; set; }

  public string Description { get; set; }

  public double Rating { get; set; }
  
```

**NEW QUESTION 40**

**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

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Policy types

- Inbound
- Outbound
- Backend

Answer Area

Requirement

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

Policy type

- Inbound
- Backend
- Outbound

NEW QUESTION 43

HOTSPOT

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

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

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

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

NOTE: Each correct selection is worth one point.



Answer Area

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

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Answer Area

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

**NEW QUESTION 47**

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 50**

You are writing code to create and run an Azure Batch job. You have created a pool of compute nodes.

You need to choose the right class and its method to submit a batch job to the Batch service.

Which method should you use?

- A. JobOperations.CreateJobO
- B. CloudJob.Enable(IEnumerable<BatchClientBehavior>)
- C. CloudJob.CommitAsync(IEnumerable<BatchClientBehavior>, CancellationToken)
- D. JobOperations.EnableJob(String, IEnumerable<BatchClientBehavior>)
- E. JobOperations.EnableJobAsync(Strin
- F. IEnumerable<BatchClientBehavior>. CancellationToken)

Answer: D

**NEW QUESTION 55**

**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	<ul style="list-style-type: none"> <li>Get-AzureRmRoleDefinition -Name "Reader"   ConvertTo-Json   Out-File C:\SupportRole.json</li> <li>Get-AzureRmRoleDefinition -Name "Operator"   ConvertTo-Json   Out-File C:\SupportRole.json</li> <li>Set-AzureRmRoleDefinition -Name "Reader"   Input-File C:\SupportRole.json</li> <li>Set-AzureRmRoleDefinition Input-File C:\SupportRole.json</li> </ul>
Actions section	<ul style="list-style-type: none"> <li>"/read","Microsoft.Support/"</li> <li>"/read"</li> <li>"/read","Microsoft.Support/"</li> <li>"/read"</li> </ul>

- A. Mastered
- B. Not Mastered

Answer: A

**Explanation:**

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

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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:

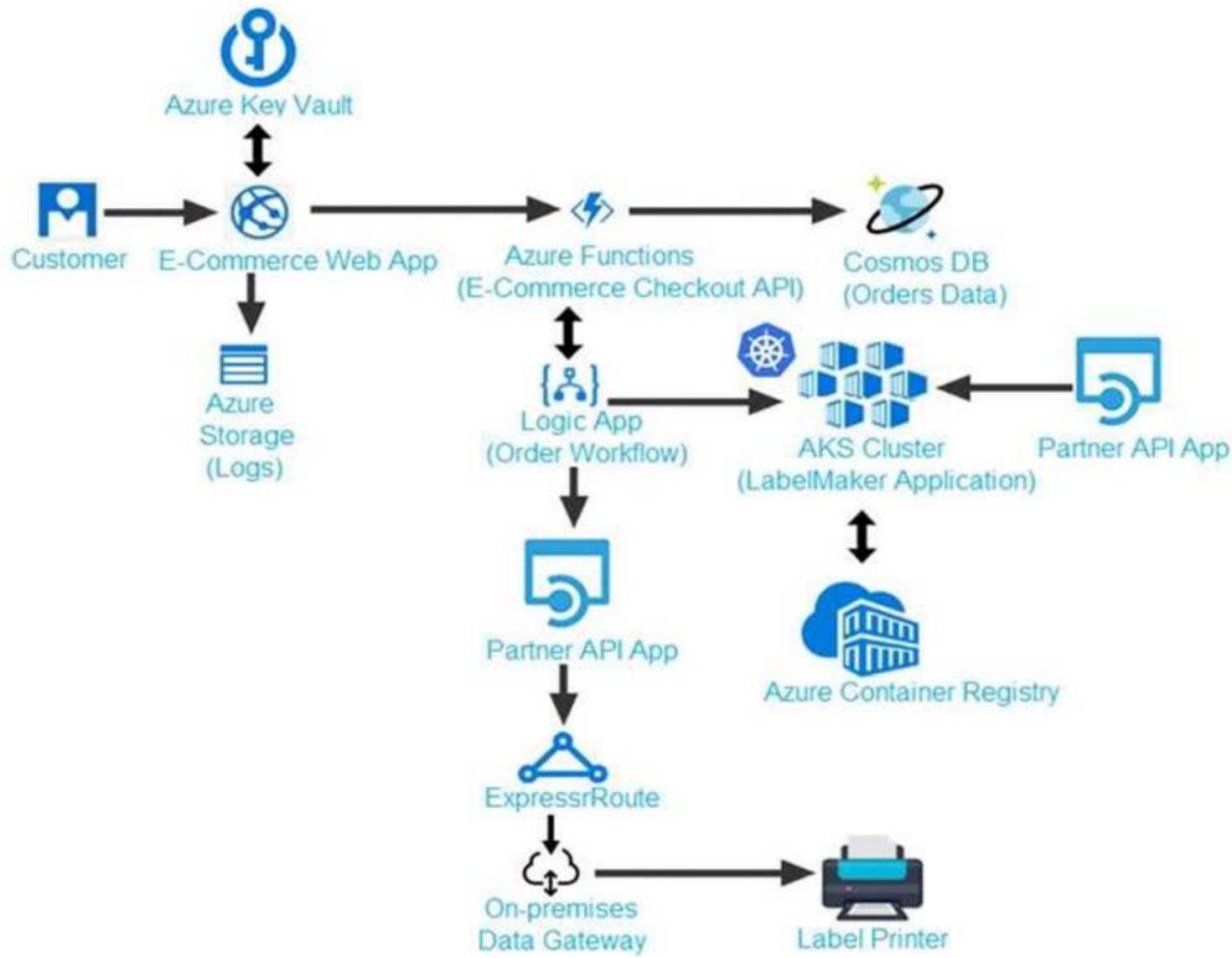
- Users of Coho Winery applications must be able to provide access to documents, resources, and applications to external partners.
- External partners must use their own credentials and authenticate with their organization's identity management solution.
- External partner logins must be audited monthly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

```
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 56**

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 61**

HOTSPOT

You need to ensure that you can deploy the LabelMaker application.

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

NOTE: Each correct selection is worth one point.

```

az  create --name  --location eastus
az  create --resource-group CohoWineryLabelMaker --name
LabelMakerCluster --node-count 5 --enable-addons 

```

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

Box 1: group

Create a resource group with the az group create command. An Azure resource group is a logical group in which Azure resources are deployed and managed. The following example creates a resource group named myResourceGroup in the westeurope location.

az group create --name myResourceGroup --location westeurope Box 2: CohoWinterLabelMaker

Use the resource group named, which is used in the second command. Box 3: aks

The command az aks create, is used to create a new managed Kubernetes cluster. Box 4: monitoring

Scenario: 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.

**NEW QUESTION 64**

**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	<input type="text" value="B2C"/>
Login Auditing	<input type="text" value="B2B"/>
	<input type="text" value="Self-service signup"/>
	<input type="text" value="Organizational Units (OU)"/>
Login Auditing	<input type="text" value="Access review"/>
	<input type="text" value="Risky sign-ins report"/>
	<input type="text" value="Identity Protection"/>
	<input type="text" value="Privileged Identity Management"/>

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

Answer Area

Requirement	Option
Authentication	B2C
Login Auditing	B2B
	Self-service signup
	Organizational Units (OU)
Login Auditing	Access review
	Risky sign-ins report
	Identity Protection
	Privileged Identity Management

NEW QUESTION 67

You need to implement the e-commerce checkout API.

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

NOTE: Each correct selection is worth one point.

- A. In the Azure Function App, enable Manger Service Identity (MSI).
- B. Set the function template's Mode property to Webhook and the Webhook type property to Generic JSON
- C. Set the function template's Mode property to Webhook and the Webhook type property to GitHub.
- D. Create an Azure Function using the HTTP POST function template.
- E. In the Azure Function App, enable Cross-Origin Resource Sharing (CORS) with all origins permitted.
- F. Create an Azure Function using the Generic webhook function template.

Answer: CDF

Explanation:

Case Study: 2

Litware Inc

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.

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Overview Background

You are a developer for Litware Inc., a SaaS company that provides a solution for managing employee expenses. The solution consists of an ASP.NET Core Web API project that is deployed as an Azure Web App.

Overall architecture

Employees upload receipts for the system to process. When processing is complete, the employee receives a summary report email that details the processing results. Employees then use a web application to manage their receipts and perform any additional tasks needed for reimbursement

Receipt processing

Employees may upload receipts in two ways:

- Uploading using an Azure Files mounted folder
- Uploading using the web application Data Storage

Receipt and employee information is stored in an Azure SQL database.

Documentation

Employees are provided with a getting started document when they first use the solution. The documentation includes details on supported operating systems for Azure File upload, and instructions on how to configure the mounted folder.

Solution details Users table

Column	Description
UserId	unique identifier for and employee
ExpenseAccount	employees expense account number in the format 1234-123-1234
AllowedAmount	limit of allowed expenses before approval is needed
SupervisorId	unique identifier for employee's supervisor
SecurityPin	value used to validate user identity

Web Application

You enable MSI for the Web App and configure the Web App to use the security principal name,

Processing

Processing is performed by an Azure Function that uses version 2 of the Azure Function runtime. Once processing is completed, results are stored in Azure Blob.

Storage and an Azure SQL database. Then, an email summary is sent to the user with a link to the processing report. The link to the report must remain valid if the email is forwarded to another user.

Requirements Receipt processing

Concurrent processing of a receipt must be prevented.

Logging

Azure Application Insights is used for telemetry and logging in both the processor and the web application. The processor also has Trace Writer logging enabled.

Application Insights must always contain all log messages.

Disaster recovery

Regional outage must not impact application availability. All DR operations must not be dependent on application running and must ensure that data in the DR region is up to date.

Security

Users' SecurityPin must be stored in such a way that access to the database does not allow the viewing of SecurityPins. The web application is the only system that should have access to SecurityPins.

All certificates and secrets used to secure data must be stored in Azure Key Vault. You must adhere to the Least Privilege Principal.

All access to Azure Storage and Azure SQL database must use the application's Managed Service Identity (MSI).

Receipt data must always be encrypted at rest. All data must be protected in transit,

User's expense account number must be visible only to logged in users. All other views of the expense account number should include only the last segment, with the remaining parts obscured.

In the case of a security breach, access to all summary reports must be revoked without impacting other parts of the system.

Issues

Upload format issue

Employees occasionally report an issue with uploading a receipt using the web application. They report that when they upload a receipt using the Azure File Share, the receipt does not appear in their profile. When this occurs, they delete the file in the file share and use the web application, which returns a 500 Internal Server error page.

Capacity issue

During busy periods, employees report long delays between the time they upload the receipt and when it appears in the web application.

Log capacity issue

Developers report that the number of log messages in the trace output for the processor is too high, resulting in lost log messages-

Application code Processing.cs

Processing.cs

```

PC01 public static class Processing
PC02 {
PC03     public static class Function
PC04     {
PC05         [FunctionName ("IssueWork")]
PC06         public static async Task Run ([TimerTrigger("0 */5" ****")] TimerInfo timer, ILogger log)
PC07         {
PC08             var container = await GetCloudBlobContainer();
PC09             foreach (var fileItem in await ListFiles())
PC10             {
PC11                 var file = new CloudFile (fileItem.StorageUri.PrimaryUri);
PC12                 var ms = new MemoryStream();
PC13                 await file.DownloadToStreamAsync(ms);
PC14                 var blob = container.GetBlockBlobReference (fileItem.Uri.ToString());
PC15                 await blob.UploadFromStreamAsync(ms);
PC16             }
PC17         }
PC18     }
PC19     private static CloudBlockBlob GetDRBlob (CloudBlockBlob sourceBlob)
PC20     {
PC21         . . .
PC22     }
PC23     private static async Task<CloudBlobContainer> GetCloudBlobContainer()
PC24     {
PC25         var cloudBlobClient = new CloudBlobClient (new Uri(" . . ."), await GetCredentials());
PC26
PC27         await cloudBlobClient.GetRootContainerReference().CreatIfNotExistAsync();
PC28         return cloudBlobClient.GetRootContainerReference();
PC29     }
PC30     private static async Task<StorageCredentials> GetCredentials()
PC31     {
PC32         . . .
PC33     }
PC34     private static async Task<List<IListFileItem>> ListFiles()
PC35     {
PC36         . . .
PC37     }
PC37     private KeyVaultClient _keyVaultClient = new KeyVaultClient(" . . .");
PC38     }
PC39     }

```

Database.cs

```
DB01 public class Database
DB02 {
DB03     private string ConnectionString =
DB04
DB05     public async Task<object> LoadUserDetails(string userId)
DB06     {
DB07
DB08     return await policy.ExecuteAsync (async () =>
DB09     {
DB10         using (var connection = new SqlConnection (ConnectionString))
DB11         {
DB12             await connection.OpenAsync ();
DB13             using (var command = new SqlCommand("_", connection))
DB14             using (var reader = command.ExecuteReader ())
DB15                 {
DB16                     -
DB17                 }
DB18         }
DB19     });
DB20 }
DB21 }
```

ReceiptUploader.cs

```
RU01 public class ReceiptUploader
RU02 {
RU03     public async Task UploadFile(string file, byte[] binary)
RU04     {
RU05         var httpClient = new HttpClient ();
RU06         var response = await httpClient.PutAsync( "...", new ByteArrayContent(binary));
RU07         while (ShouldRetry (response))
RU08         {
RU09             response = await httpClient.PutAsync ( "...", new ByteArrayContent (binary));
RU10         }
RU11     }
RU12     private bool ShouldRetry(HttpResponseMessage response)
RU13     {
RU14
RU15     }
RU16 }
```

ConfigureSSE.ps1

```
CS01 $storageAccount = Get-AzureRmStorageAccount -ResourceGroupName "_" -AccountName "_"
CS02 $keyVault = Get-AzureRmKeyVault -VaultName "_"
CS03 $key = Get-AzureKeyVaultKey -VaultName $keyVault.VaultName -Name "_"
CS04 Set-AzureRmKeyVaultAccessPolicy'
CS05 -VaultName $keyVault.VaultName'
CS06 -ObjectId $storageAccount.Identity.PrincipalId'
CS07
CS08
CS09 Set-AzureRmStorageAccount'
CS10 -ResourceGroupName $storageAccount.ResourceGroupName'
CS11 -AccountName $storageAccount.StorageAccountName'
CS12 -EnableEncryptionService File `
CS13 -KeyvaultEncryption'
CS14 -KeyName $key.Name
CS15 -KeyVersion $key.Version'
CS16 -KeyVaultUri $keyVault.VaultUri
```

#### NEW QUESTION 70

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

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

You need to ensure that 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 73**

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

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

You need to ensure that 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 75**

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 77**

**HOTSPOT**

You need to configure retries in the LoadUserDetails function in the Database class without impacting user experience.

What code should you insert on line DB07?

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

var policy=

Policy
RetryPolicy
RetryOptions
ReconnectRetryPolicy

.Handle<Exception>()

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

- A. Mastered
- B. Not Mastered

Answer: A

**Explanation:**

Box 1: Policy

RetryPolicy retry = Policy

.Handle<HttpRequestException>()

.Retry(3);

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

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

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

Example: Policy

.Handle<SomeExceptionType>()

.WaitAndRetry(3, retryAttempt => TimeSpan.FromSeconds(Math.Pow(2, retryAttempt))

);

References:

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

**NEW QUESTION 78**

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 toda
- G. Call GetSharedAccessSignature on the container and use the resulting link.

**Answer: B**

**NEW QUESTION 83**

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 86**

HOTSPOT

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

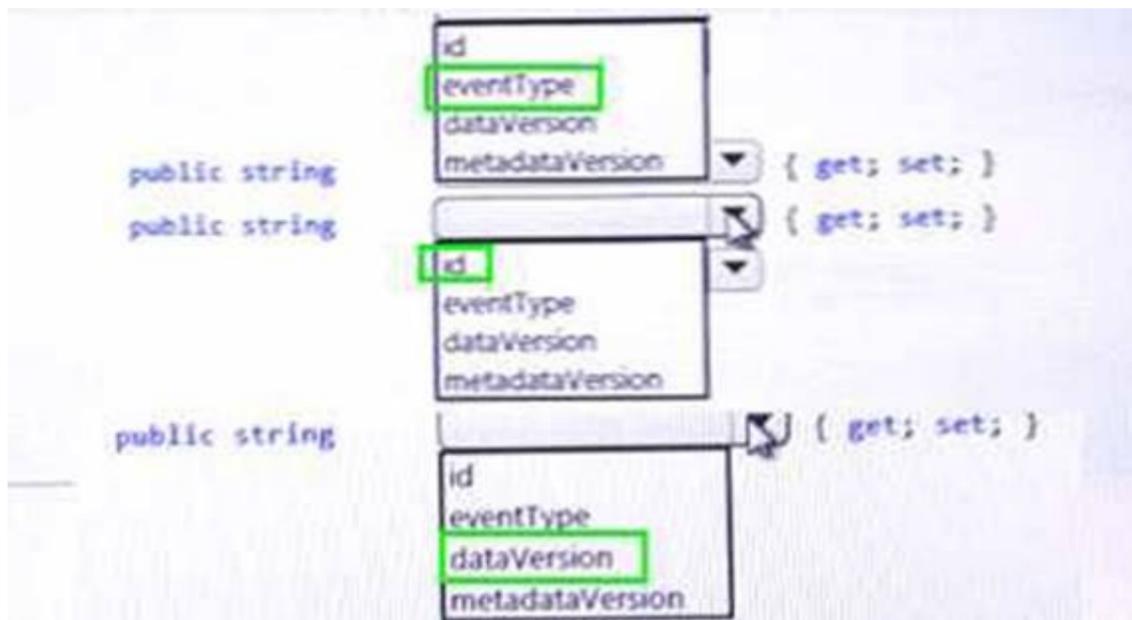
NOTE: Each correct selection is worth one point.



- A. Mastered
- B. Not Mastered

**Answer: A**

**Explanation:**



**NEW QUESTION 87**

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: Ensure that signout events have a subject prefix. Create an Azure Event Grid subscription that uses the subjectBeginsWith filter.

- A. Yes
- B. No

Answer: B

**NEW QUESTION 92**

DRAG DROP

You need to ensure that PolicyLib requirements are met.

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

NOTE: Each correct selection is worth one point.

**Code segments**

- Process
- Initialize
- telemetry.Sequence
- ITelemetryProcessor
- ITelemetryInitializer
- telemetry.Context
- EventGridController.EventId.Value
- ((EventTelemetry)telemetry).Properties["EventId"]

**Answer Area**

```
public class IncludeEventId :  code
{
    public void  code segment
        (ITelemetry telemetry)
    {
         code segment ,P
         code segment
    }
}
```

- A. Mastered
- B. Not Mastered

Answer: A

**Explanation:**

**Code segments**

- Process
- Initialize
- telemetry.Sequence
- ITelemetryProcessor
- ITelemetryInitializer
- telemetry.Context
- EventGridController.EventId.Value
- ((EventTelemetry)telemetry).Properties["EventId"]

**Answer Area**

```
public class Incl|Initialize
{
    public |ITelemetryProcessor
        (ITelemetry telemetry)
    {
        EventGridController.EventId.Value ,P
        telemetry.Context
    }
}
```

**NEW QUESTION 93**

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**

```

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

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

**Code segments**

- 
- 
- 
- 
- 
-

**Answer Area**

```

public class Filter : 
{
    private readonly  _next;
    public Filter( next)
    {
        _next = next;
    }
    public void Process(ITelemetry item)
    {
        var x = item as ;
        if (x?.Url.AbsolutePath == "")
        {
            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

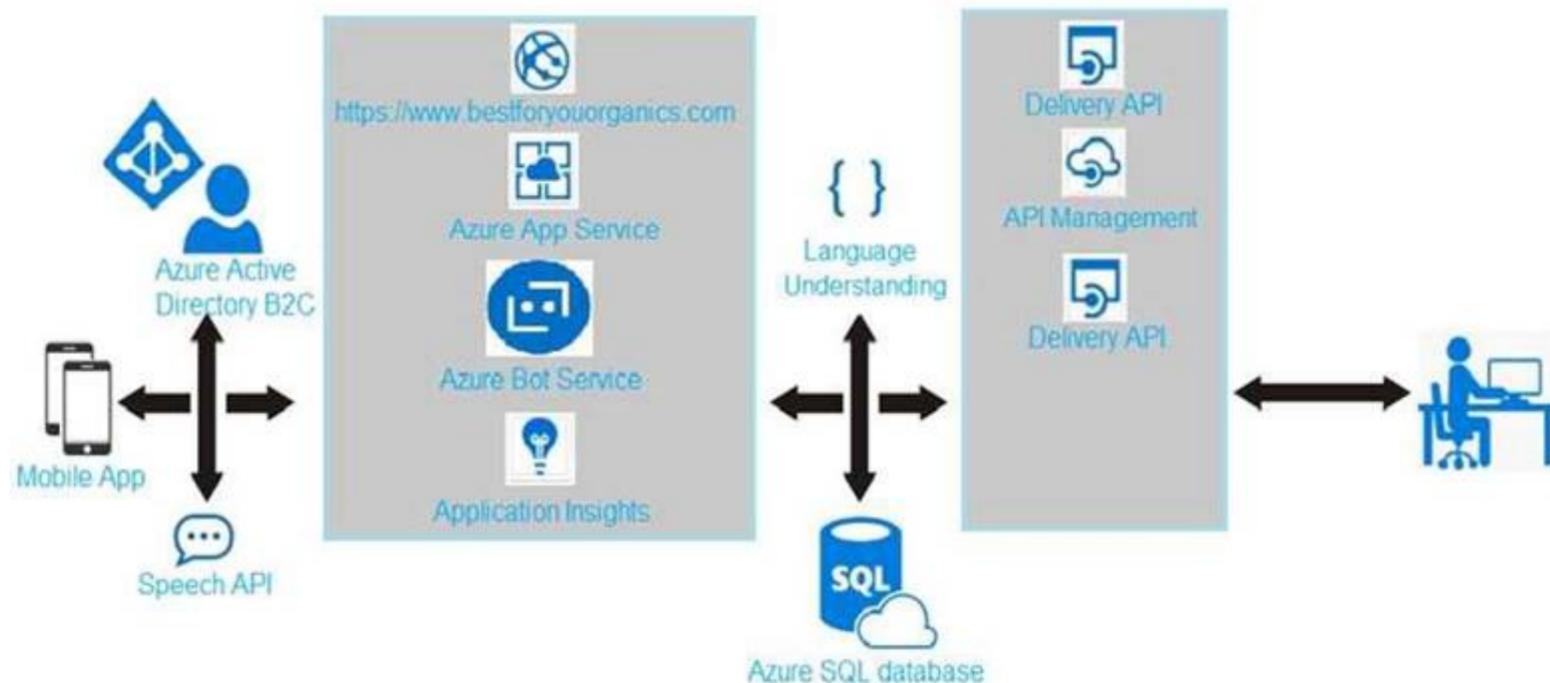
### Vendor API

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 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 95**

HOTSPOT

You need to update the Inventory API.

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

NOTE: Each correct selection is worth one point.

Development	Tool
Technology	<div style="border: 1px solid black; padding: 5px;"> <div style="background-color: #f0f0f0; padding: 2px;">Technology ▼</div> <div style="padding: 2px;">ADO.NET</div> <div style="padding: 2px;">Entity Framework</div> <div style="padding: 2px;">Entity Framework Core</div> <div style="padding: 2px;">WCF Data Services</div> </div>
Workflow	<div style="border: 1px solid black; padding: 5px;"> <div style="background-color: #f0f0f0; padding: 2px;">Workflow ▼</div> <div style="padding: 2px;">Model first</div> <div style="padding: 2px;">Database first</div> <div style="padding: 2px;">Code first</div> </div>

- A. Mastered
- B. Not Mastered

Answer: A

**Explanation:**

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

Box 2: Code first References:

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

mvc-application

### NEW QUESTION 100

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 103

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 104

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