

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

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

- A. Mastered
- B. Not Mastered

Answer: A

NEW QUESTION 3

HOTSPOT

You are developing 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 Area

```

PartitionKey = [email, phone, region] ;
RowKey = [email, phone, region] ;
}
public string Phone { get; set; }
}
public class Player
{
    protected PlayerEntity player;
    async void GetPlayer(string cs,
    {
        [ ]
        [ ]
        [ ]
        [ ]
    }
}
[ ]
[ ]
[ ]
[ ]

```

CloudTable
CloudTableClient
TableEntity
TableEntityAdapter

table, string pk, string rk)

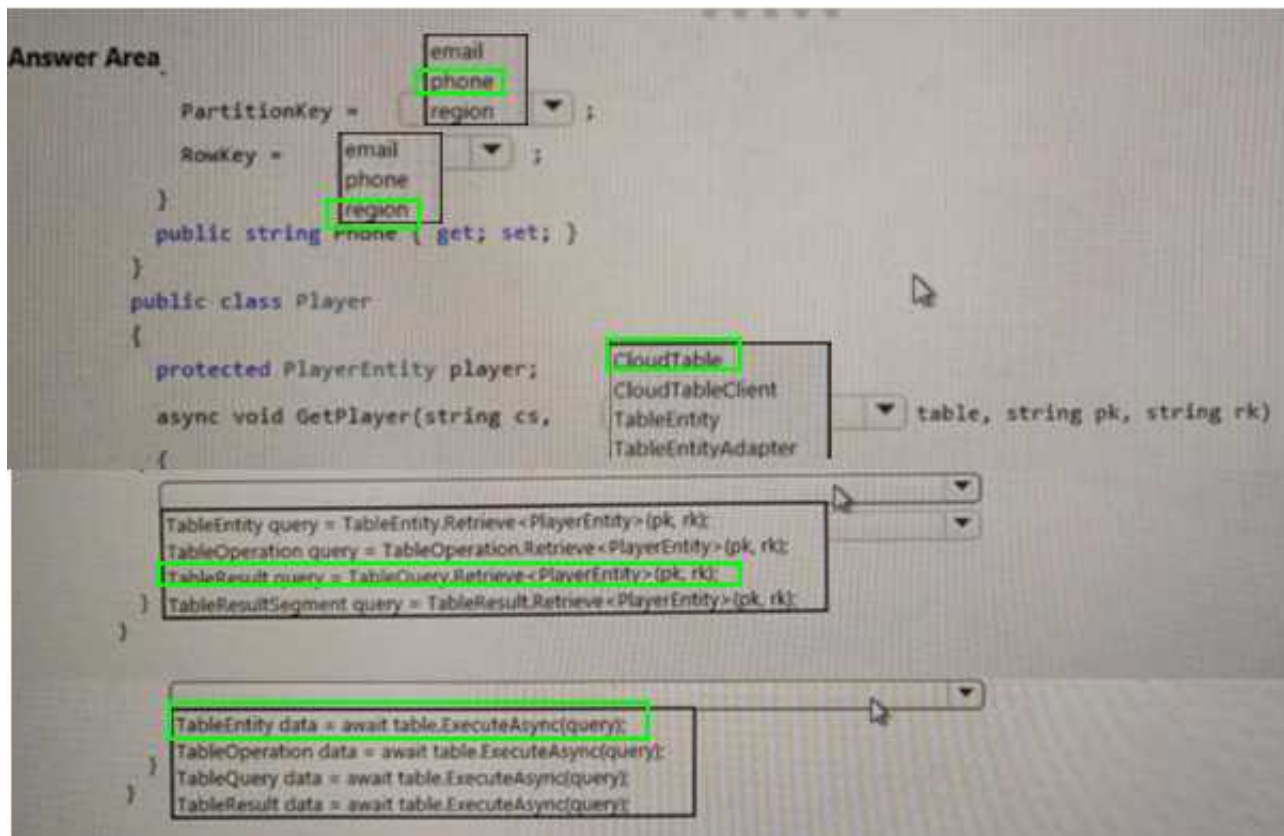
TableEntity query = TableEntity.Retrieve<PlayerEntity>(pk, rk);
TableOperation query = TableOperation.Retrieve<PlayerEntity>(pk, rk);
TableResult query = TableQuery.Retrieve<PlayerEntity>(pk, rk);
TableResultSegment query = TableResult.Retrieve<PlayerEntity>(pk, rk);

TableEntity data = await table.ExecuteAsync(query);
TableOperation data = await table.ExecuteAsync(query);
TableQuery data = await table.ExecuteAsync(query);
TableResult data = await table.ExecuteAsync(query);

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:



NEW QUESTION 4

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 5

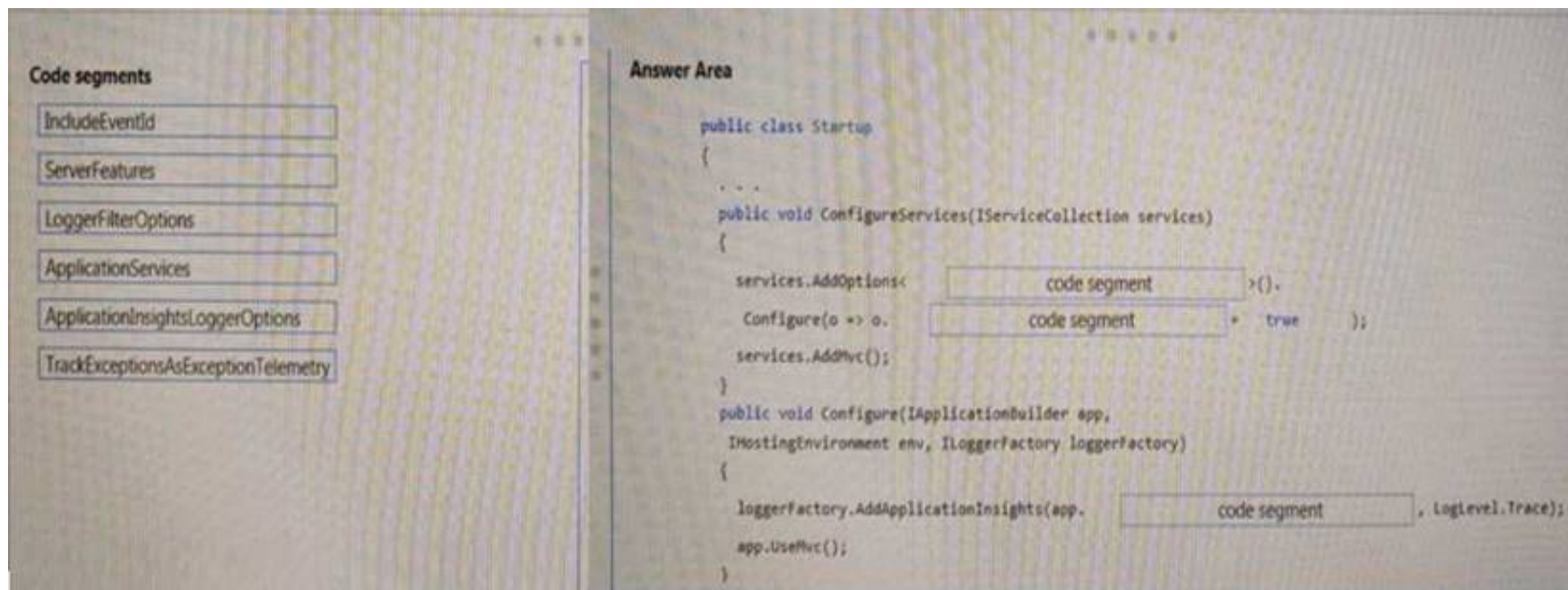
DRAG DROP

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.



- A. Mastered
- B. Not Mastered

Answer: A

Explanation:



NEW QUESTION 6

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 7

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 8

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 9

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 10

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.

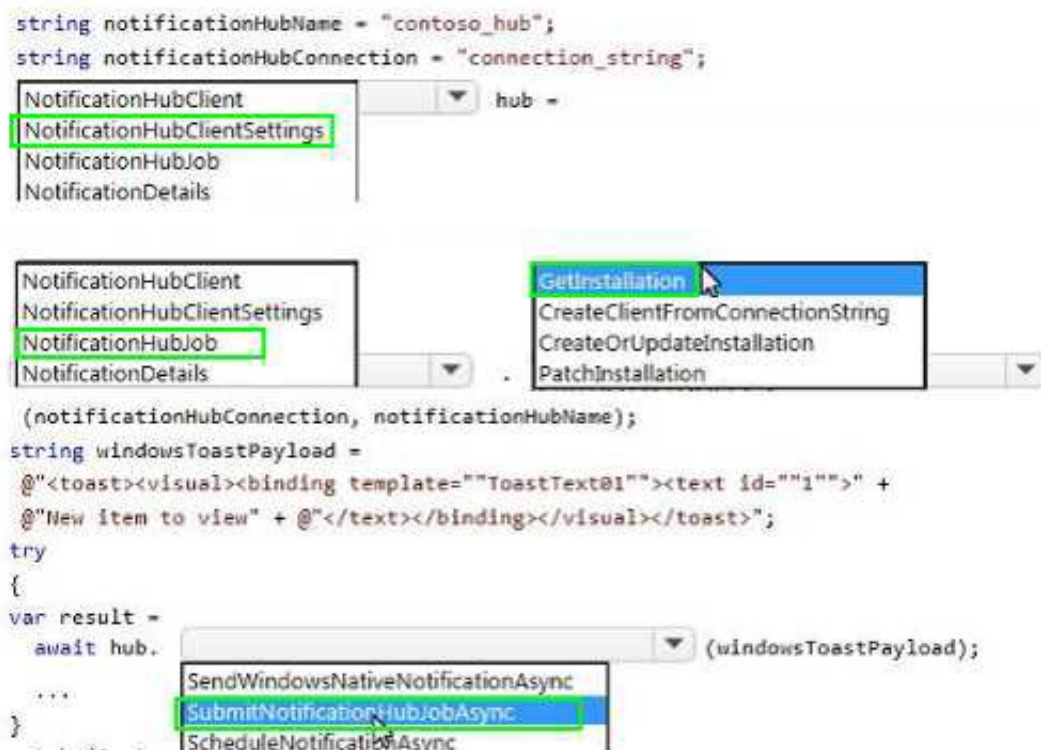
NOTE: Each correct selection is worth one point.



- A. Mastered
- B. Not Mastered

Answer: A

Explanation:



NEW QUESTION 10

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 14

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

	Yes	No
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 18

HOTSPOT

You have an app that stores player scores for an online game. The app stores data in Azure tables using a class named PlayerScore as the table entity. The table is populated with 100,000 records. You are reviewing the following section of code that is intended to retrieve 20 records where the player score exceeds 15,000. (Line numbers are included for reference only.)

```
1 public void GetScore(string playerId, int score, string gameName)
2 {
3     TableQuery<DynamicTableEntity> query = new TableQuery<DynamicTableEntity>().Select(new string[] { "Score" })
4     .Where(TableQuery.GenerateFilterConditionForInt("Score", QueryComparisons.GreaterThanOrEqual, 15000)).Take(20);
5     EntityResolver<KeyValuePair<string, int?>> resolver =
6     (partitionKey, rowKey, ts, props, etag) => new KeyValuePair<string, int?>(rowKey, props["Score"].Int32Value);
7     foreach (var scoreItem in scoreTable.ExecuteQuery(query, resolver, null, null))
8     {
9         Console.WriteLine($"{scoreItem.Key} {scoreItem.Value}");
10    }
11
12    public class PlayerScore : TableEntity
13    {
14        public PlayerScore(string gameId, string playerId, int score, long timePlayed)
15        {
16            PartitionKey = gameId;
17            RowKey = playerId;
18            Score = score;
19            TimePlayed = timePlayed;
20        }
21        public int Score { get; set; }
22        public long TimePlayed { get; set; }
23    }
```

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

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

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Answer Area



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

NEW QUESTION 22

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 26

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.	<input type="text"/> <div> <input checked="" type="checkbox"/> QueryType <input type="checkbox"/> OrderBy <input type="checkbox"/> SearchMode </div>
Organize results by counts for name-value pairs.	<input type="text"/> <div> <input type="checkbox"/> Facets <input checked="" type="checkbox"/> Filter <input type="checkbox"/> SearchMode </div>
List hotels within a specified distance to an airport and that fall within a specific price range.	<input type="text"/> <div> <input type="checkbox"/> Order by <input checked="" type="checkbox"/> Top <input type="checkbox"/> Filter </div>

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Scenario	Property
Search the index by using regular expressions.	<input type="text"/> <div> <input checked="" type="checkbox"/> QueryType <input checked="" type="checkbox"/> OrderBy <input type="checkbox"/> SearchMode </div>
Organize results by counts for name-value pairs.	<input type="text"/> <div> <input type="checkbox"/> Facets <input checked="" type="checkbox"/> Filter <input type="checkbox"/> SearchMode </div>
List hotels within a specified distance to an airport and that fall within a specific price range.	<input type="text"/> <div> <input type="checkbox"/> Order by <input checked="" type="checkbox"/> Top <input checked="" type="checkbox"/> Filter </div>

NEW QUESTION 28

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	Answer area
Create a Service Bus topic for each restaurant for which a driver can receive messages.	
Create a single Service Bus topic.	
Create a single Service Bus subscription.	
Create a single Service Bus Namespace.	
Create a Service Bus Namespace for each restaurant for which a driver can receive messages.	
Create a Service Bus subscription for each restaurant for which a driver can receive orders.	

- A. Mastered
 B. Not Mastered

Answer: A

Explanation:

Actions	Answer area
Create a Service Bus topic for each restaurant for which a driver can receive messages.	Create a single Service Bus topic.
Create a single Service Bus 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 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.	Create a Service Bus topic for each restaurant for which a driver can receive messages.

NEW QUESTION 32

HOTSPOT

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

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

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

NOTE: Each correct selection is worth one point.

```

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

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

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

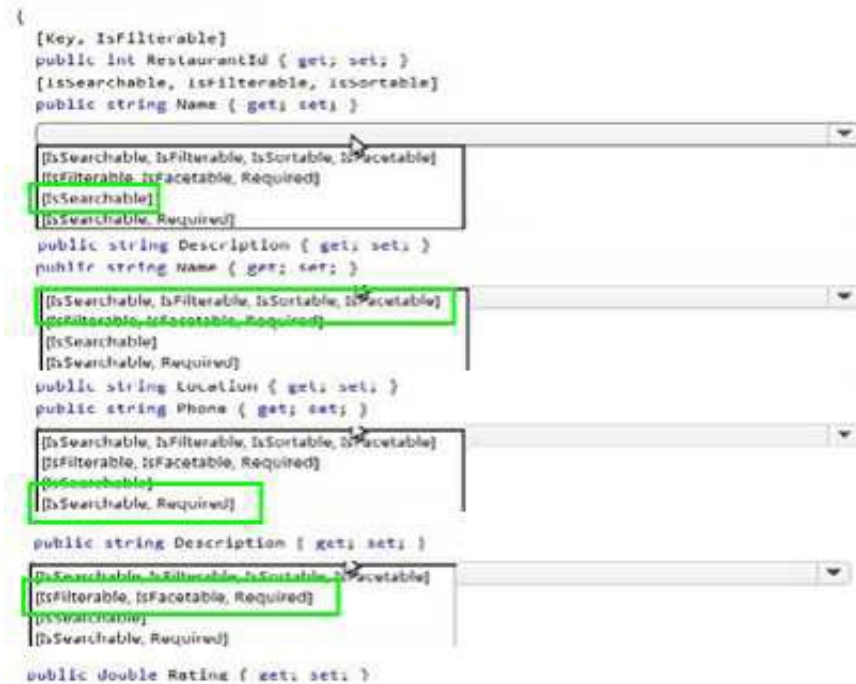
    [IsSearchable, IsFilterable, IsSortable, IsFacetable]
    [IsFilterable, IsFacetable, Required]
    [IsSearchable]
    [IsSearchable, Required]
    public string Description { get; set; }

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

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:



NEW QUESTION 35

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 40

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 45

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 47

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	<div> 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 </div>
Actions section	<div> "/read" "Microsoft.Support/" "/read" "/read" "Microsoft.Support/" </div>

- A. Mastered
B. Not Mastered

Answer: A

Explanation:

Item	Value
Powershell command	<div> 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 </div>
Actions section	<div> "/read" "Microsoft.Support/" "/read" "/read" "Microsoft.Support/" </div>

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:

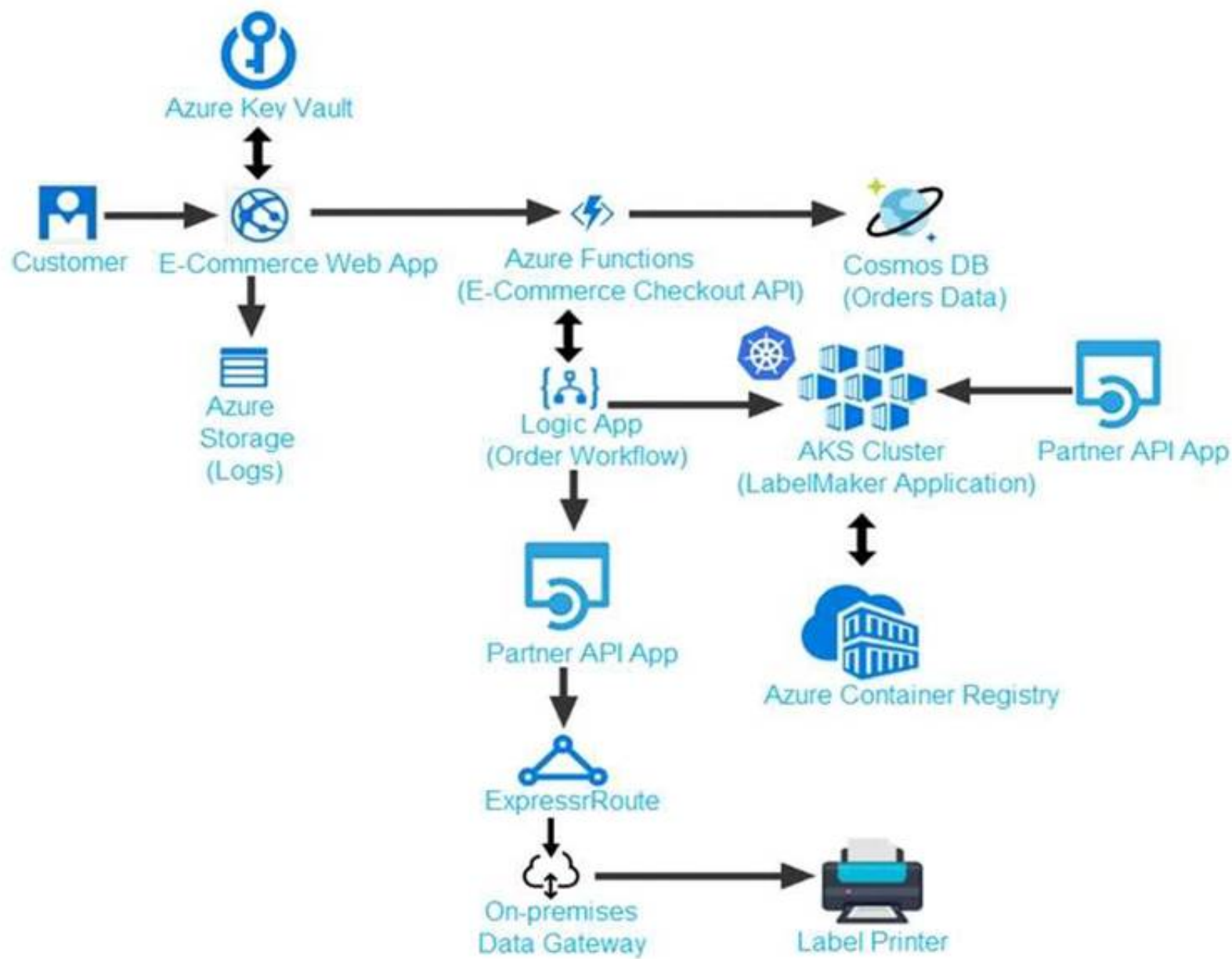
- Users of Coho Winery applications must be able to provide access to documents, resources, and applications to external partners.
- External partners must use their own credentials and authenticate with their organization's identity management solution.
- External partner logins must be audited monthly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



```
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 48**DRAG DROP**

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

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

NOTE: Each correct selection is worth one point.

Actions

Answer Area

Restart the cluster.

Create an alias of the image with the a new build number.

Build a new application image by using msbuild.

Create an alias of the image with the fully qualified path to the registry.

Build a new application image by using dockerfile.

Download the image to your local computer.

Log in to the registry and push image.



- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Step 1: Build a new application image by using dockerfile

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

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

pulls hello-world from the public docker hub

\$ docker pull hello-world

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

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

push the image

\$ docker push <REGISTRY_NAME>/hello-world Step 3: Log in to the registry and push image

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

Scenario:

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

LabelMaker app

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

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

References:

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

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

NEW QUESTION 52

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 Wet) App.
- D. Update the E-Commerce Web App with the service principal's client secret.

Answer: D

NEW QUESTION 55

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 LabelMaket 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 60

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 64

You need to troubleshoot the order workflow.

What should you do? Each correct answer presents part of the solution.

NOTE: Each correct selection is worth one point.

A. Review the run history.

B. Review the trigger history.

C. Review the API connections.

D. Review the activity log.

Answer: BD

Explanation:

Scenario: The order workflow fails to run upon initial deployment to Azure. Deployment errors arise from conditions that occur during the deployment process.

They appear in the activity log.

References:

<https://docs.microsoft.com/en-us/azure/azure-resource-manager/resource-group-audit>

NEW QUESTION 65

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 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.

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.

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 an employee
ExpenseAccount	employee's 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 69

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 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: 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 72

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 74

DRAG DROP

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

To answer, drag the appropriate code fragments to the correct locations. Each code fragment may be used once, more than once, or not at all. You may need to drag the split bar between panes or scroll to view content.

NOTE: Each correct selection is worth one point.

Values

true
false
SingleTransferContext
DirectoryTransferContext
ShouldTransferCallbackAsync
ShouldOverwriteCallbackAsync

Answer Area

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

- A. Mastered
B. Not Mastered

Answer: A

Explanation:

Values

true
false
SingleTransferContext
DirectoryTransferContext
ShouldTransferCallbackAsync
ShouldOverwriteCallbackAsync

Answer Area

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

NEW QUESTION 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 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 77

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 79

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 82

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.

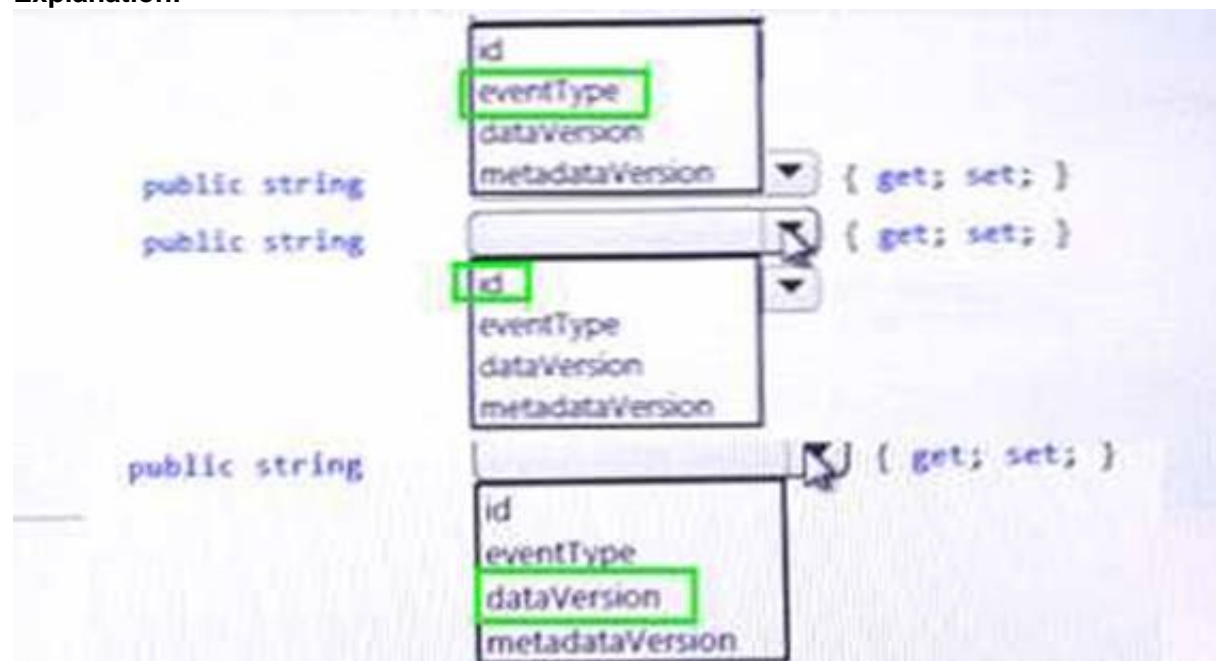
NOTE: Each correct selection is worth one point.



- A. Mastered
- B. Not Mastered

Answer: A

Explanation:



NEW QUESTION 87

You need to resolve a notification latency issue.

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

NOTE: Each correct selection is worth one point

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

Answer: AD

Explanation:

Azure Functions can run on either a Consumption Plan or a dedicated App Service Plan. If you run in a dedicated mode, you need to turn on the Always On setting for your Function App to run properly. The Function runtime will go idle after a few minutes of inactivity, so only HTTP triggers will actually "wake up" your functions. This is similar to how WebJobs must have Always On enabled.

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

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

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

References:

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

NEW QUESTION 91

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	if (
status	@event["data"] [" " "].ToString() == " " "
eventType	&&
Succeeded	@event["data"] [" " "].ToString() == "Microsoft.Web/sites/write"
operationName)
resourceProvider	

- A. Mastered
- B. Not Mastered

Answer: A

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 93

You need to resolve the Policy Loss issue.

What are two possible ways to achieve the goal? Each correct answer presents a complete solution.

NOTE: Each correct selection is worth one point.

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

Answer: BD

NEW QUESTION 97

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 100

HOTSPOT

You need to update the Inventory API.

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

NOTE: Each correct selection is worth one point.

Development

Tool

Technology

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

Workflow

	▼
Model first	
Database first	
Code first	

A. Mastered

B. Not Mastered

Answer: A

Explanation:

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

Box 2: Code first References:

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

NEW QUESTION 102

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 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 107

.....

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