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 tor 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 DataContainer that contains the documents which must be added.

A. Mastered
B. Not Mastered

Answer: A

NEW QUESTION 3
Create a DataSource instance and set its Container property to the DataContainer.

A. Mastered
B. Not Mastered

Answer: A

NEW QUESTION 4
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 foe 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.

A. Mastered
B. Not Mastered

Answer: A

Explanation:

NEW QUESTION 5
You are developing a software solution for an autonomous transportation system. The solution uses large data sets and Azure Batch processing to simulate navigation sets for entire fleets of vehicles.
You need to create compute nodes for the solution on Azure Batch. What should you do?

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

Answer: A

NEW QUESTION 6
HOTSPOT
You have an Azure Batch project that processes and converts files and stores the
files in Azure storage. You are developing a function to start the batch job. You add the following parameters to the function:

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

You must ensure that converted files are placed in the container referenced by the outputContainerSasUrl parameter. Files which fail to convert are placed in the container referenced by the failedContainerSasUrt parameter.
You need to ensure the files are correctly processed.
How should you complete the code segment? To answer, select the appropriate options in the answer area.

```
public List<CloudTask> StartTasks(List<FileTask> fileTasks, string jobId,
 string outputContainerSasUrl, string failedContainerSasUrl)
{
   BatchSharedKeyCredentials sharedKeyCredentials =
    new BatchSharedKeyCredentials(batchAccountUrl, batchAccountName, batchAccountKey);
   List<CloudTask> tasks = new List<CloudTask>();
   using (BatchClient batchClient = BatchClient.Open(sharedKeyCredentials))
   {
      CloudJob job = batchClient.JobOperations.              ▼  ();
                                                    ┌──────────┐
                                                    │ GetJob   │
      job.Id = jobId;                               │ GetTask  │
      job.PoolInformation = new PoolInformation     │ EnableJob│  poolId };
      job.Commit();                                 │ CreateJob│
      fileTasks.ForEach((fileTask) =>               └──────────┘
      {
         string taskId = $"Task{DateTime.Now.ToFileTimeUtc().ToString()}";
         CloudTask task = new CloudTask(taskId, fileTask.Command);
         List<OutputFile> outputFileList = new List<OutputFile>();
         OutputFileBlobContainerDestination outputContainer =
          new OutputFileBlobContainerDestination(outputContainerSasUrl);
         OutputFileBlobContainerDestination failedContainer =
          new OutputFileBlobContainerDestination(failedContainerSasUrl);
         outputFileList.Add(new OutputFile(fileTask.Output,

      OutputFileBlobContainerDestination outputContainer =
       new OutputFileBlobContainerDestination(outputContainerSasUrl);
      OutputFileBlobContainerDestination failedContainer =
       new OutputFileBlobContainerDestination(failedContainerSasUrl);
      outputFileList.Add(new OutputFile(fileTask.Output,
       new OutputFileDestination(outputContainer),
                                                          ┌──────────────┐  ▼
       new OutputFileUploadOptions(OutputFileUploadCondition.  │ TaskFailure  │   ))));
                                                          │ TaskSuccess  │
      outputFileList.Add(new OutputFile(fileTask.Output,  │ TaskFailure  │
       new OutputFileDestination(failedContainer),        │ TaskCompletion│
                                                          └──────────────┘
       new OutputFileUploadOptions(OutputFileUploadCondition.
                                                          ┌──────────────┐  ▼
                          ▼  = outputFileList;            │ TaskSuccess  │   ))));
      task.                                               │ TaskFailure  │
           ┌──────────────┐                               │ TaskCompletion│
      tasks.Ad│ OutputFiles  │                            └──────────────┘
           │ FilesToStage │                                  These are the Selected
      }));  │ ResourceFiles│
           │ StageFiles   │
   }        └──────────────┘
   return tasks;
```

A. Mastered
B. Not Mastered

Answer: A

Explanation:
EnableJob
TaskFailure
Taskcompletion
ResourceFiles

NEW QUESTION 7
DRAG DROP
You are developing an ASP.NET Core Web API web service that uses Azure Application Insights to monitor performance and trade events
You need to enable logging and ensure that log messages can be correlated to events tracked by Application Insights.
How should you complete the code? To answer, drag the appropriate code segments to the correct locations. Each code segment may be used once, more than once, or not at alt. You may need to drag the split bar between panes or scroll to view Content.
NOTE: Each correct selection is worth one point.
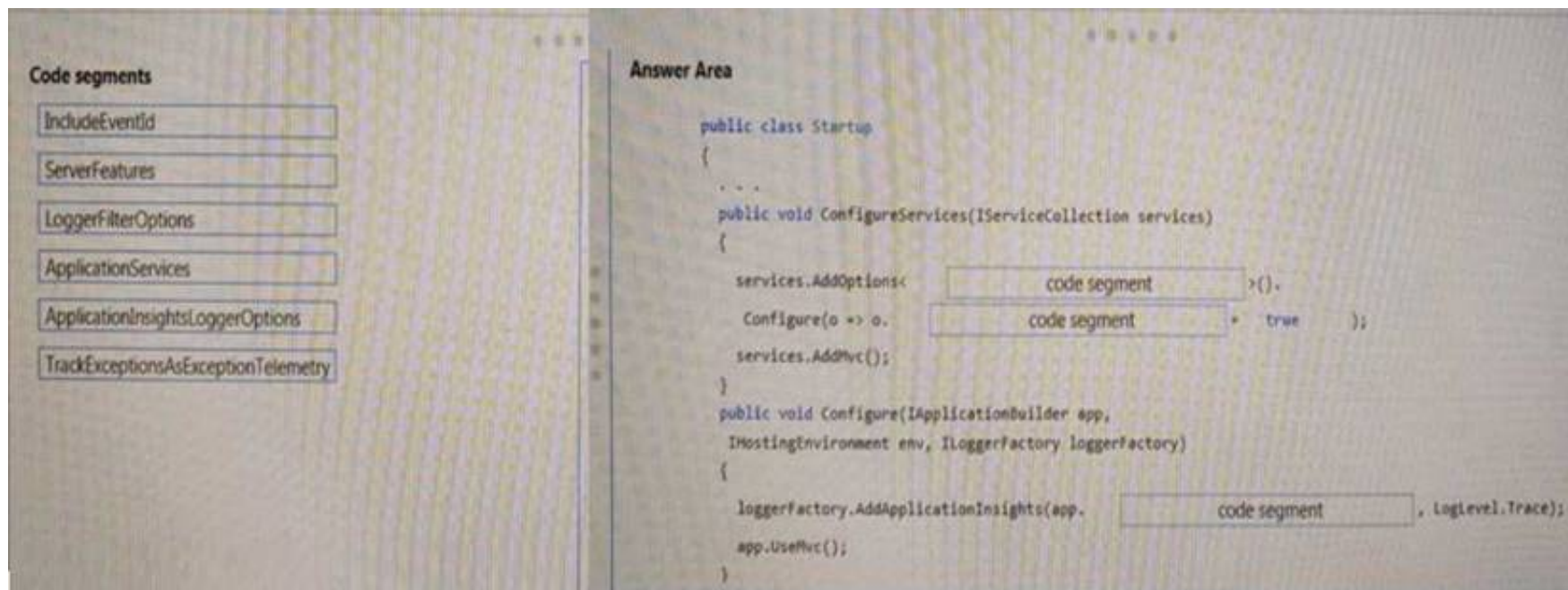
A. Mastered
B. Not Mastered

Answer: A

Explanation:

NEW QUESTION 8
You provide an Azure API Management managed web service lo clients. The back end web service implements HTTP Strict Transport Security (HSTS).
Every request to the backend service must include a valid HTTP authorization header.
You need to configure the Azure API Management instance with an authentication policy.
Which two policies can you uses? Each correct answer presents a complete solution NOTE: Each correct selection is worth one point.

A. Certificate Authentication
B. Basic Authentication
C. OAuth Client Credential Grant
D. Digest Authentication

Answer: AC

NEW QUESTION 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
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
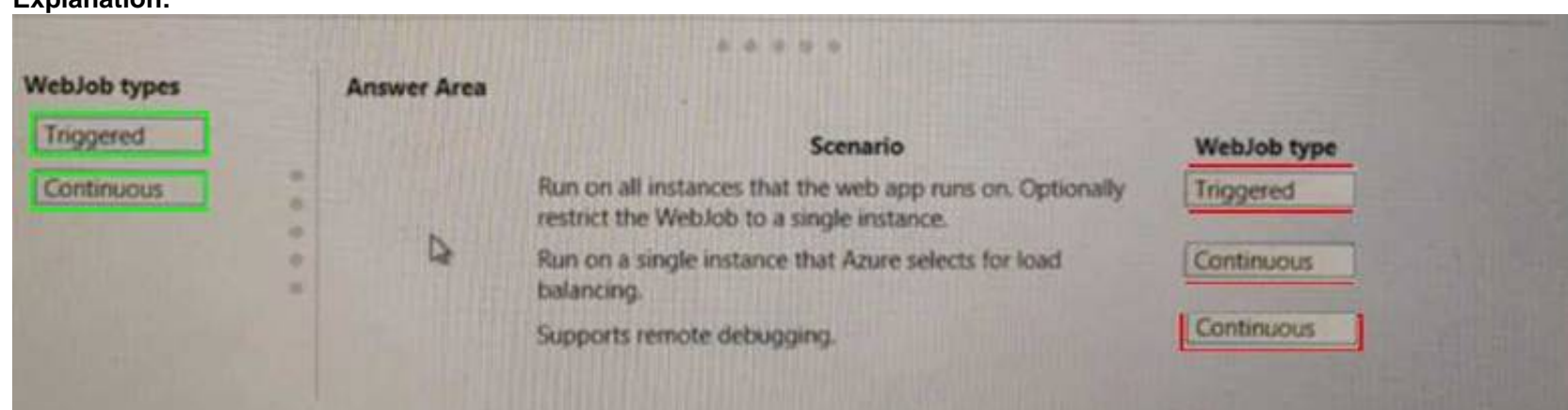
NOTE: Each correct selection s worth one point.
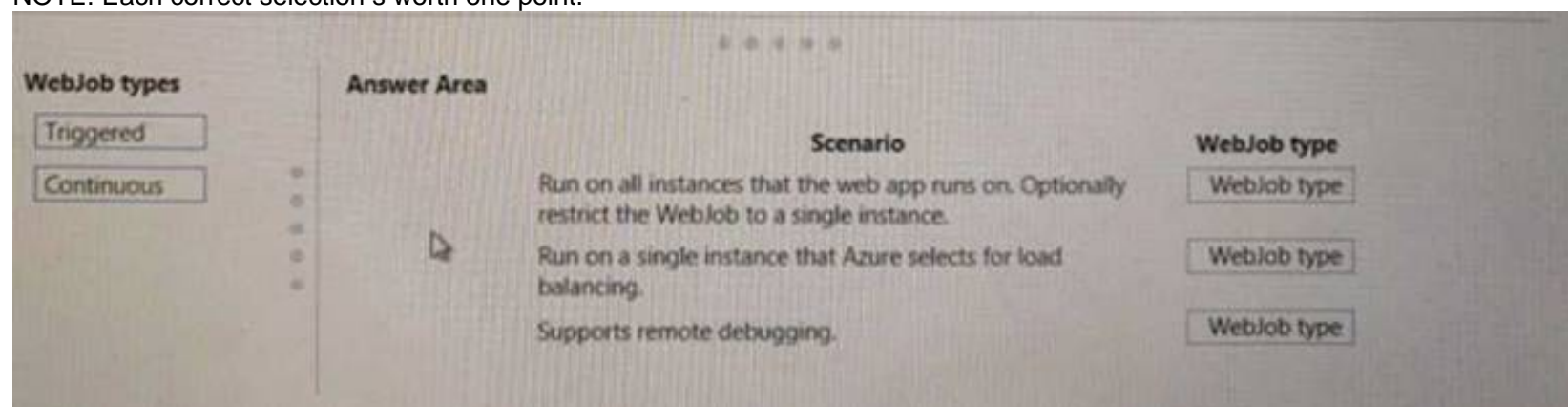
A. Mastered
B. Not Mastered

Answer: A
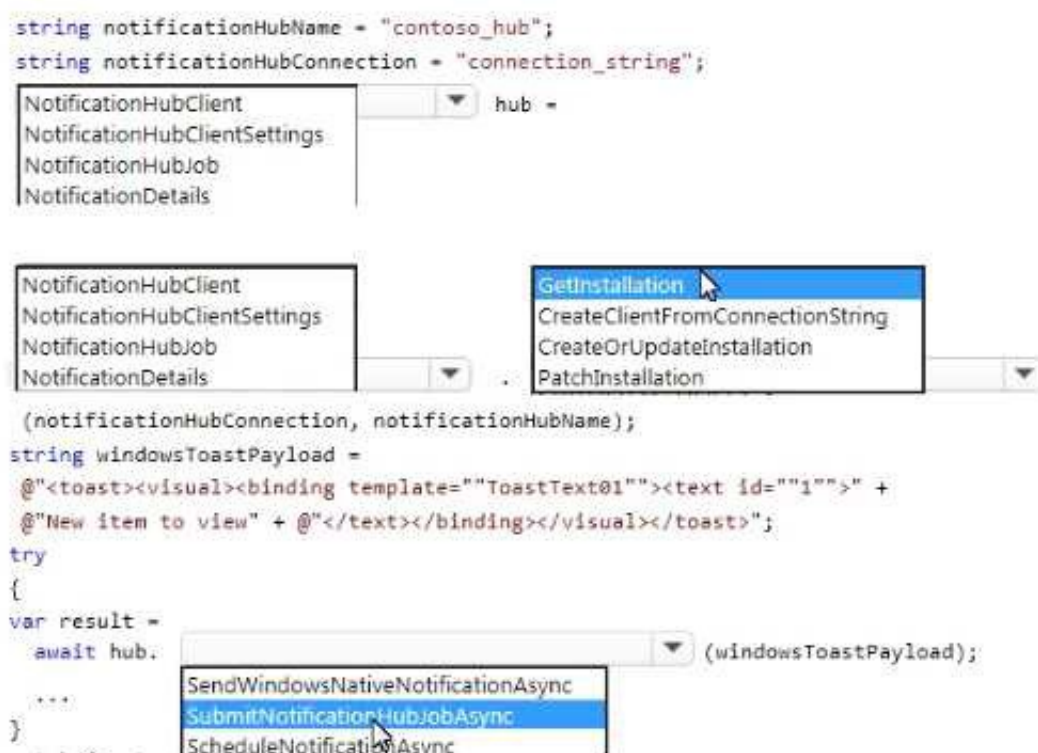
Explanation:

NEW QUESTION 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.
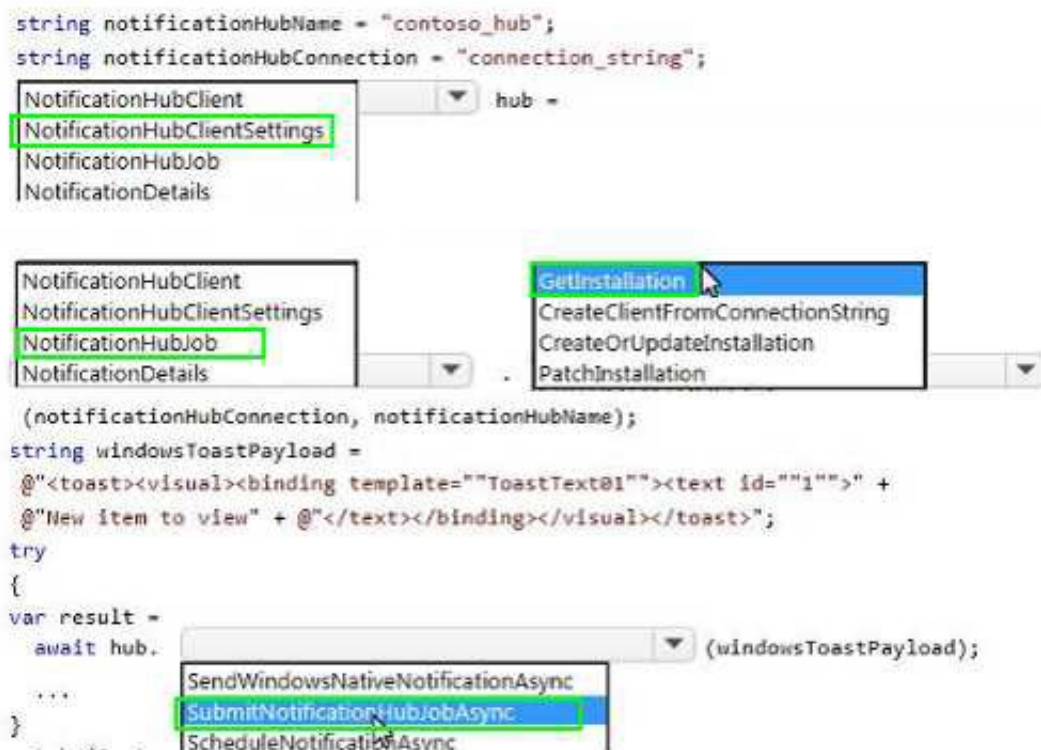How should you complete the code segment? To answer, select the appropriate options in the answer area.
NOTE: Each correct selection is worth one point.

A. Mastered
B. Not Mastered

Answer: A

Explanation:

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

┌─────────────────────────┐
│ NotificationHubClient   │ ▼  hub =
│ NotificationHubClientSettings │
│ NotificationHubJob      │
│ NotificationDetails     │
└─────────────────────────┘

┌─────────────────────────┐        ┌──────────────────────────────────┐
│ NotificationHubClient   │        │ GetInstallation  ▶                │
│ NotificationHubClientSettings │   │ CreateClientFromConnectionString │
│ NotificationHubJob      │        │ CreateOrUpdateInstallation       │
│ NotificationDetails     │  ▼  .  │ 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 14
You are developing a mobile instant messaging app for a company. The mobile app must meet the following requirements:
• Support offline data sync.
• Update the latest messages during normal sync cycles. You need to implement Offline Data Sync.
Which two actions should you perform? Each conn I answer presents part of the solution.
NOTE: Each correct selection is worth one point.

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

Answer: BD

NEW QUESTION 18
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 19
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(ne.v 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 23
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.

QueryType
OrderBy
SearchMode

Organize results by counts for name-value pairs.

Facets
Filter
SearchMode

List hotels within a specified distance to an airport and that fall within a specific price range.

Order by
Top
Filter

A. Mastered
B. Not Mastered

Answer: A

Explanation:

Scenario | Property

Search the index by using regular expressions.

QueryType
OrderBy
SearchMode

Organize results by counts for name-value pairs.

Facets
Filter
SearchMode

List hotels within a specified distance to an airport and that fall within a specific price range.

Order by
Top
Filter

NEW QUESTION 27
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:

NEW QUESTION 29
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 31
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.

A. Mastered
B. Not Mastered

Answer: A

Explanation:

Case Study: 1
Coho Winery
Overview
This is a case study. Case studies are not timed separately. You can use as much exam time as you would like to complete each case. However, there may be additional case studies and sections on this exam. You must manage your time to ensure that you are able to complete all questions included on this exam in the time provided.
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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
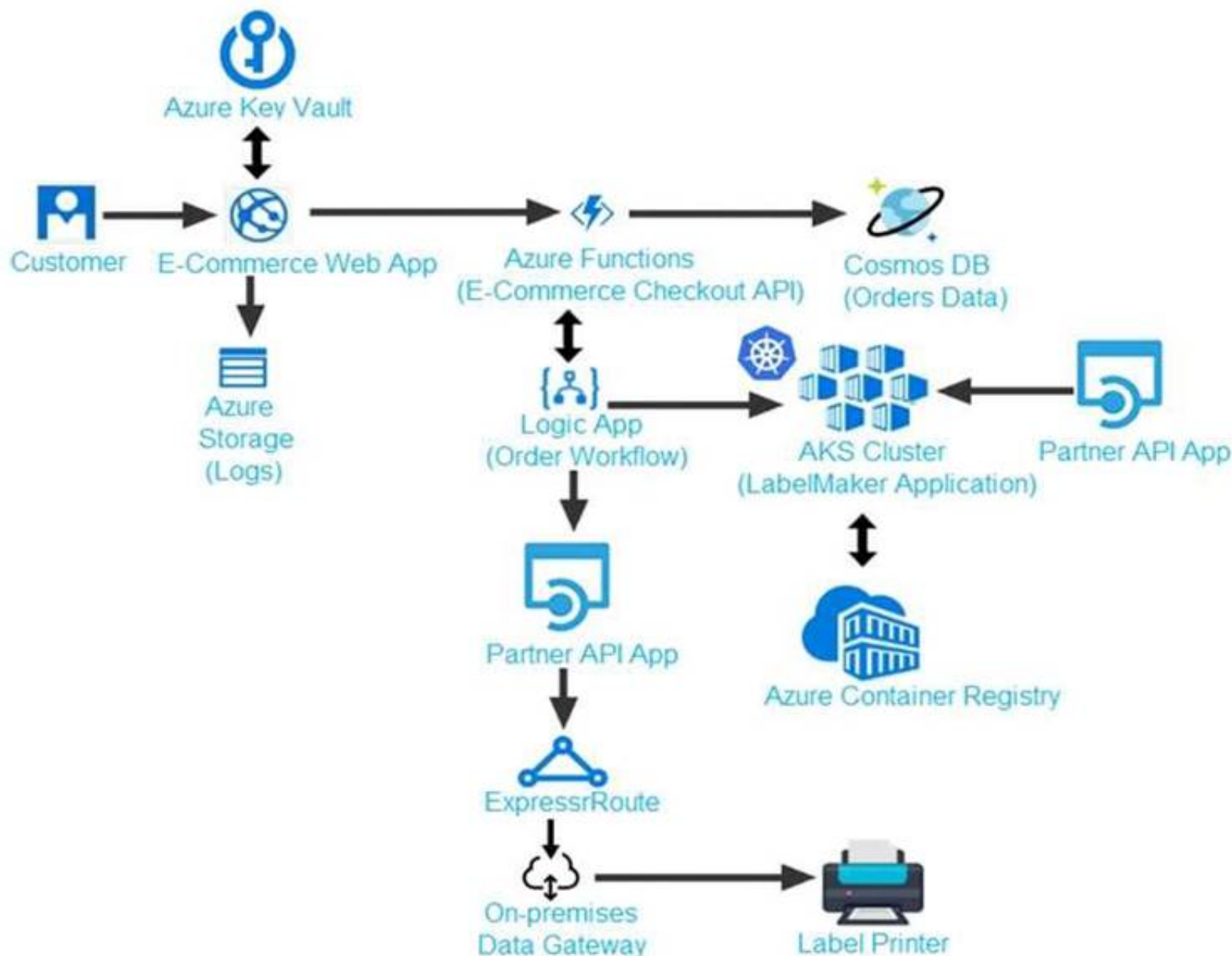
Issues

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 oi 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 35
You need to provision and deploy the order workflow.
Which three components should you include? Each correct answer presents part of the solution.
NOTE: Each correct selection is worth one point

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

Answer: CDE

NEW QUESTION 36
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
   group                    CohoWIneryLabelMaker
   aks                      LabelMakerCluster
   acr

az [ ▼ ]  create - -resource-group CohoWineryLabelMaker - -name
   group
   aks
   acr

   LabelMakerCluster - -node-count 5 - -enable-addons [ ▼ ]
                                                        monitoring
                                                        http_application_routing
```

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 41
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 44
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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Overwiew 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 47
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 50
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 51
HOTSPOT
You need to ensure that security requirements are met.
What value should be used for the ConnectionString field on line DB03 in the Database class? To answer, select the appropriate options in the answer area.
NOTE: Each correct selection is worth one point.

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

```
Integrated Security = SSPI        ▼  ;
Trusted_Connection = False
Network Library = DBNSSOCN
MultipleActiveResultSets = True
```

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

A. Mastered
B. Not Mastered

Answer: A

Explanation:
Box 1: Integrated Security=SSPI
Integrated security: For all data source types, connect using the current user account.
For SqlClient you can use Integrated Security=true; or Integrated Security=SSPI; Scenario: All access to Azure Storage and Azure SQL database must use the application's Managed Service Identity (MSI)
Box 2: Encrypt = True
Scenario: All data must be protected in transit. References:
https://docs.microsoft.com/en-us/dotnet/framework/data/adonet/connection-string- syntax

NEW QUESTION 52
HOTSPOT
You need to ensure that security policies are met. What code should you add at Line PC26?
To answer, select the appropriate options in the answer area. NOTE: Each correct selection is worth one point.

Answer Area

```
var resolver = new KeyVaultKeyResolver(_keyVaultClient);
var keyBundle = await _keyVaultClient.GetKeyAsync("_", "_");
```

```
var key = keyBundle.Key;                                                      ▼
var key = keyBundle.KeyIdentifier.Identifier;
var key = await resolver.ResolveKeyAsync("encrypt", null);
var key = await resolver.ResolveKeyAsync(keyBundle.KeyIdentifier.Identifier, CancellationToken.None);
```
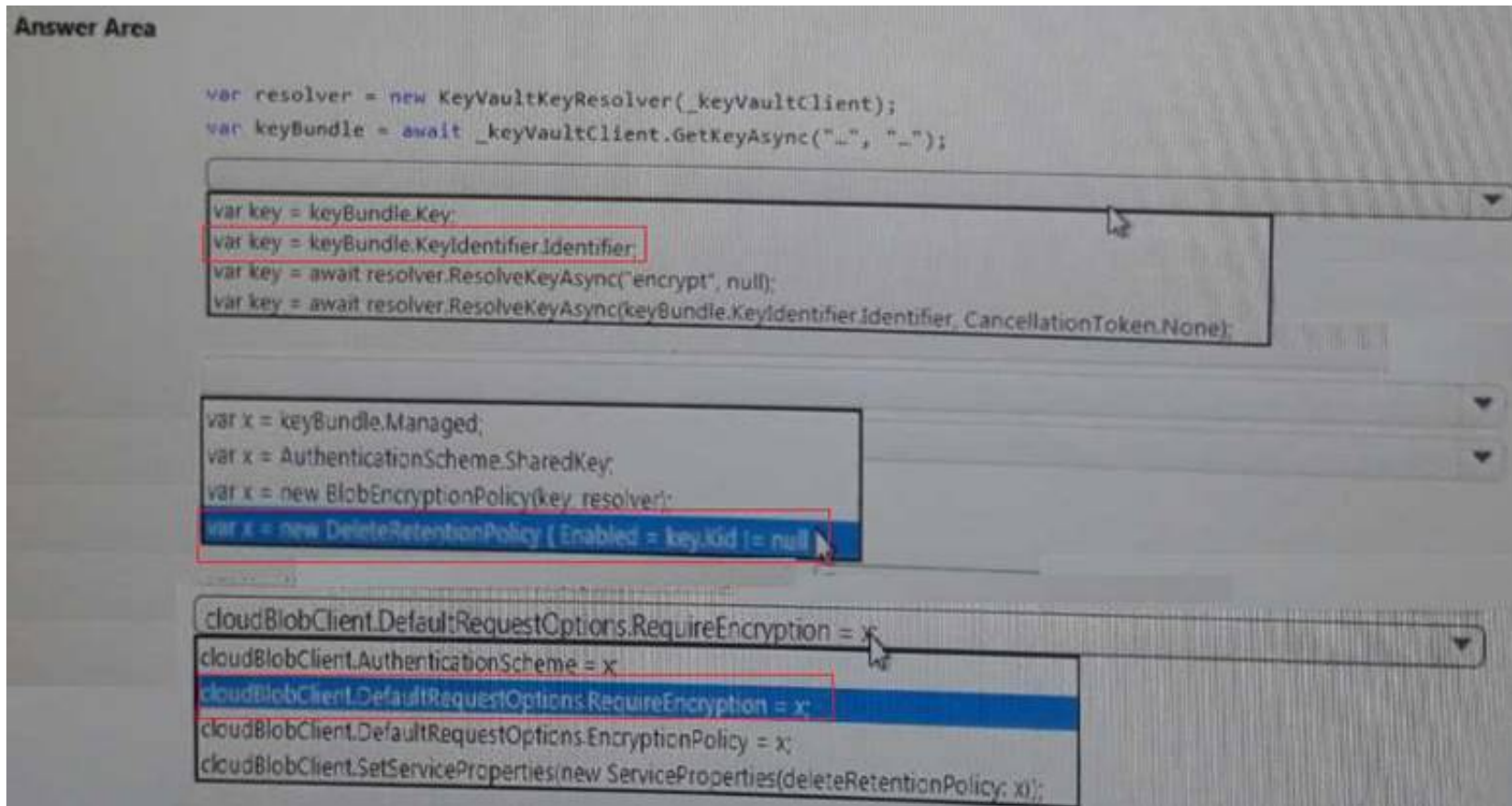
```
var x = keyBundle.Managed;                                                    ▼
var x = AuthenticationScheme.SharedKey;                                       ▼
var x = new BlobEncryptionPolicy(key, resolver);
var x = new DeleteRetentionPolicy { Enabled = key.Kid != null }
```

```
cloudBlobClient.DefaultRequestOptions.RequireEncryption = x                   ▼
cloudBlobClient.AuthenticationScheme = x
cloudBlobClient.DefaultRequestOptions.RequireEncryption = x;
cloudBlobClient.DefaultRequestOptions.EncryptionPolicy = x;
cloudBlobClient.SetServiceProperties(new ServiceProperties(deleteRetentionPolicy: x));
```

A. Mastered
B. Not Mastered

Answer: A

Explanation:

Answer Area

```
var resolver = new KeyVaultKeyResolver(_keyVaultClient);
var keyBundle = await _keyVaultClient.GetKeyAsync("_", "_");

var key = keyBundle.Key;
var key = keyBundle.KeyIdentifier.Identifier;
var key = await resolver.ResolveKeyAsync("encrypt", null);
var key = await resolver.ResolveKeyAsync(keyBundle.KeyIdentifier.Identifier, CancellationToken.None);

var x = keyBundle.Managed;
var x = AuthenticationScheme.SharedKey;
var x = new BlobEncryptionPolicy(key, resolver);
var x = new DeleteRetentionPolicy { Enabled = key.Kid != null }

cloudBlobClient.DefaultRequestOptions.RequireEncryption = x;
cloudBlobClient.AuthenticationScheme = x;
cloudBlobClient.DefaultRequestOptions.RequireEncryption = x;
cloudBlobClient.DefaultRequestOptions.EncryptionPolicy = x;
cloudBlobClient.SetServiceProperties(new ServiceProperties(deleteRetentionPolicy: x));
```

NEW QUESTION 55
You need to resolve the log capacity issue. What should you do?

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

Answer: A

NEW QUESTION 56
You need to ensure the security policies are met. What code do you add at line CS07?

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

Answer: D

Explanation:
Case Study: 3
Proseware, Inc
Background
You are a developer for Proseware, Inc. You are developing an application that applies a set of governance policies for Proseware's internal services, external services, and applications. The application will also provide a shared library for common functionality.
Requirements Policy service
You develop and deploy a stateful ASP.NET Core 2.1 web application named Policy service to an Azure App Service Web App. The application reacts to events from Azure Event Grid and performs policy actions based on those events.
The application must include the Event Grid Event ID field in all Application Insights telemetry.
Policy service must use Application Insights to automatically scale with the number of policy actions that it is performing.
Policies Log policy
All Azure App Service Web Apps must write logs to Azure Blob storage. All log files should be saved to a container named logdrop. Logs must remain in the container for 15 days.
Authentication events
Authentication events are used to monitor users signing in and signing out. All authentication events must be processed by Policy service. Sign outs must be processed as quickly as possible.
Policylib
You have a shared library named PolicyLib that contains functionality common to all ASP.NET Core web services and applications. The Policy Lib library must
• Exclude non-user actions from Application Insights telemetry.
• Provide methods that allow a web service to scale itself.
• Ensure that scaling actions do not disrupt application usage.
Other
Anomaly detection service
You have an anomaly detection service that analyzes log information for anomalies. It is implemented as an Azure as a web service.
If an anomaly is detected, an Azure Function that emails administrators is called by using an HTTP WebHook.
Health monitoring
All web applications and services have health monitoring at the /health service endpoint.
Issues Policy loss
When you deploy Policy service, policies may not be applied if they were in the process of being applied during the deployment.
Performance issue
When under heavy load, the anomaly detection service undergoes slowdowns and rejects connections.
Notification latency

Users report that anomaly detection emails can sometimes arrive several minutes after an anomaly is detected.
App code EnventGridController.cs
Relevant portions of the app files are shown below. Line numbers are included for reference only and include a two-character prefix that denotes the specific file to which they belong.

```
EventGridController.cs
EG01    public class EventGridController : Controller
EG02    {
EG03        public static AsyncLocal<string> EventId = new AsyncLocal<string>();
EG04        public IActionResult Process([FromBody]) string eventsJson
EG05        {
EG06          var events = JArray.Parse(eventsJson);
EG07
EG08          foreach (var @event in events)
EG09          {
EG10            EventId.Value = @event ["id"].ToString();
EG11            if (@event["topic"].ToString().Contains("providers/Microsoft.Storage"))
EG12            {
EG13              SendToAnomalyDetectionService(@event["data"]["url"].ToString());
EG14            }
EG15
EG16            {
EG17              EnsureLogging(@event["subject"].ToString());
EG18            }
EG19          }
EG20          return null;
EG21    }
EG22        private void EnsureLogging(string resource)
EG23        {
EG24          . . .
EG25        }
EG26        private async Task SendToAnomalyDetectionService(string uri)
EG27        {
EG28          var content = GetLogData(uri);
EG29          var scoreRequest = new
EG30          {
EG31            Inputs = new Dictionary<string, List<Dictionary<string, string>>>()
EG32            {
EG33                {
EG34                  "input1",
EG35                  new List<Dictionary<string, string>>()
EG36                  {
EG37                    new Dictionary<string, string>()
EG38                    {
EG39                    {
EG40                      "logcontent", content
EG41                    }
EG42                    }
EG43                  }
EG44                },
EG45            },
EG46            GlobalParameters = new Dictionary<string, string>() { }
EG47          };
EG48          var result = await (new HttpClient()).PostAsJsonAsync(". . .", scoreRequest);
EG49          var rawModelResult = await result.Content.ReadAsStringAsync();
EG50          var modelResult = JObject.Parse(rawModelResult);
EG51          if (modelResult["notify"].HasValues)
EG52          {
EG53            . . .
EG54          }
EG55        }
EG56        private (string name, string resourceGroup) ParseResourceId(string
resourceId)
EG57        {
EG58          . . .
EG59        }
EG60        private string GetLogData(string uri)
EG61        {
EG62          . . .
EG63        }
EG64        static string BlobStoreAccountSAS(string containerName)
EG65        {
EG66          . . .
EG67        }
EG68    }
```

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

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

NEW QUESTION 58
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 62
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: Succeded
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 67
You need to ensure that the solution can meet the scaling requirements for Policy Service. Which Azure Application Insights data model should you use?

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

Answer: D

NEW QUESTION 70
Note: This question is part of a series of questions that present the same scenario.
Each question in the series contains a unique solution that might meet the stated goals. Some question sets might have more than one correct solution, while others might not have a correct solution.
After you answer a question in this section, you will NOT be able to return to it. As a result, these questions will not appear in the review screen.
You need to ensure that authentication events are triggered and processed according to the policy.
Solution: 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 71
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.

A. Mastered
B. Not Mastered

Answer: A

Explanation:

NEW QUESTION 76
Note: This question is part of a series of questions that present the same scenario. Each question in the series contains a unique solution Determine whether the solution meets the stated goals.
You need to meet the vendor notification requirement.
Solution: Configure notifications in the Azure API Management instance. Does the solution meet the goal?

A. Yes
B. No

Answer: B

Explanation:
Use a custom outbound Azure API Management policy. Scenario:
If a vendor is nearing the number of calls or bandwidth limit, the API must trigger email notifications to the vendor.
(API usage must not exceed 5,000 calls and 50,000 kilobytes of bandwidth per hour per vendor.)
References:
https://docs.microsoft.com/en-us/azure/api-management/api-management-howto- policies

NEW QUESTION 80
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 85
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