Question 1: Skipped

A team has created an Index in the Azure Search service. You have to upload data into the Index. You propose the following steps to carry out from your .Net program ;Create a SearchServiceClient object to connect to the search index. ;Create a DataContainer that contains the documents which must be added. ;Create a DataSource instance and set its Container property to the DataContainer. ;Set the DataSource property of the SearchServiceClient ;Does the list of steps fulfil the requirement?

- A. Yes

- B. No

(Correct)

Explanation

The correct list of steps is given below as per an example from the Microsoft documentation ;For an example on the steps for importing data, one can go to the below link ;https://docs.microsoft.com/en-us/azure/search/search-import-data-dotnet

Question 2: Skipped

A team has created an Index in the Azure Search service. You have to upload data into the Index. You propose the following steps to carry out from your .Net program ;Create a SearchIndexClient object to connect to the search index ;Create an IndexBatch that contains the documents which must be added. ;Call the Documents.Index method of the SearchIndexClient and pass the IndexBatch. ;Does the list of steps fulfil the requirement?

- A. Yes

(Correct)

- B. No

Explanation
Yes, this is the correct list of steps as shown below from the Microsoft documentation ;For an example on the steps for importing data, one can go to the below link ;https://docs.microsoft.com/en-us/azure/search/search-import-data-dotnet

Question 3: Skipped

A team has created an Index in the Azure Search service. You have to upload data into the Index. You propose the following steps to carry out from your .Net program ;Create a SearchIndexClient object to connect to the search index. ;Create a DataContainer that contains the documents which must be added. ;Create a DataSource instance and set its Container property to the DataContainer ;Call the Documents.Search method of the SearchIndexClient and pass the DataSource. ;Does the list of steps fulfil the requirement?

- A. Yes

- B. No

(Correct)

Explanation
The correct list of steps is given below as per an example from the Microsoft documentation ;For an example on the steps for importing

data, one can go to the below link ;https://docs.microsoft.com/en-us/azure/search/search-import-data-dotnet

Question 4: Skipped

A team is developing container-based applications that need to be deployed to a Kubernetes cluster in Azure. You have to create the cluster and ensure the services are running as desired. Which of the following commands would you execute? Choose 4 answers from the options given below

- A. az aks create

  (Correct)

- B. az group create

  (Correct)

- C. kubectl apply

  (Correct)

- D. az appservice plan create

- E. az aks get-credentials

  (Correct)

Explanation

An example of the steps which need to be followed are given below ;The first command is used to create a resource group in Azure. An example is given below ;The next command is used to create the kubernetes cluster. An example is given below ;Next you need to merge the Kubernetes cluster credentials. An example is given below ;And then finally you can use “kubectl apply” to deploy your application onto the cluster ;Option D is incorrect since we don’t need an App service plan for a Kubernetes cluster. ;For more information on using the Azure CLI to work with Kubernetes clusters, one can go to the below link ;https://docs.microsoft.com/en-us/azure/aks/kubernetes-walkthrough

Question 5: Skipped

A development team is developing an application. The application will be storing its data in Azure Table storage. Below are the fields that are going to be stored in the table ;

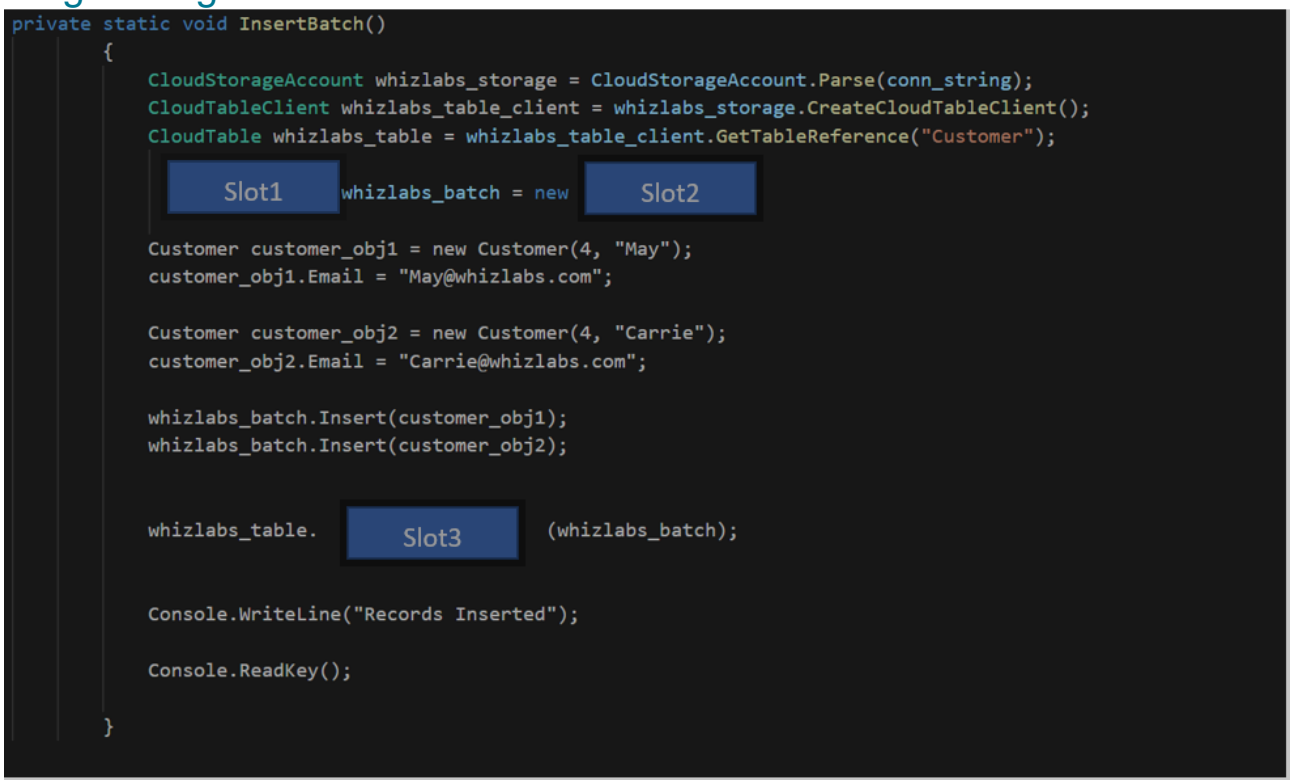
Region ;

Email address ;

Phone number ;

The following snippet of code needs to be completed that would be used to insert a batch of records. ;

Larger image



Which of the following will go into Slot1?

- A. TableOperation
- B. TableBatchOperation

  (Correct)
- C. TableEntity
- D. TableQuery

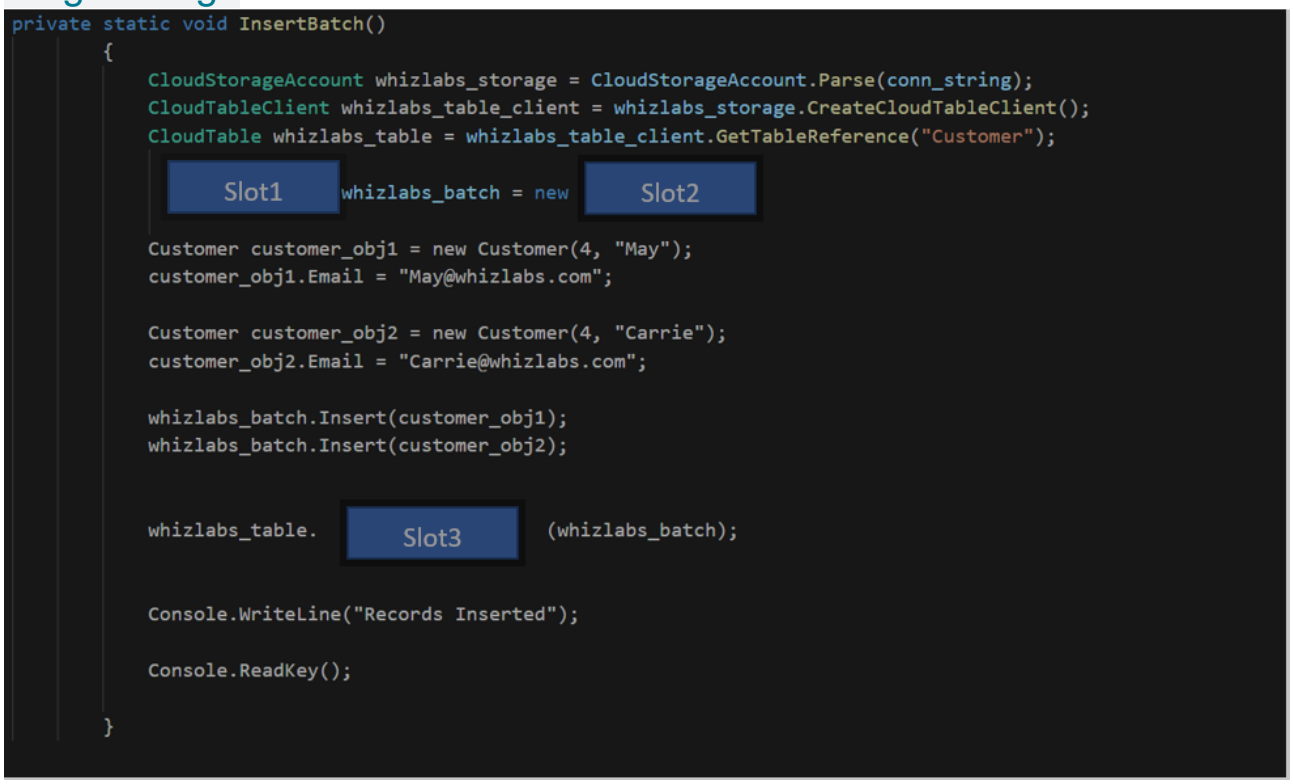
Explanation
Since this is a batch operation, we have to use the TableBatchOperation Type. An example is also given in the Microsoft documentation ;Since this is clearly given in the Microsoft documentation, all other options are incorrect ;For more information on using table storage with .Net, one can go to the below link ;https://docs.microsoft.com/en-us/azure/cosmos-db/table-storage-how-to-use-dotnet

Question 6: Skipped

A development team is developing an application. The application will be storing its data in Azure Table storage. Below are the fields that are going to be stored in the table ;
Region ;
Email address ;
Phone number ;

The following snippet of code needs to be completed that would be used to insert a batch of records. ;

Larger image



Which of the following will go into Slot2?

- A. TableOperation
- B. TableBatchOperation

  (Correct)
- C. TableEntity

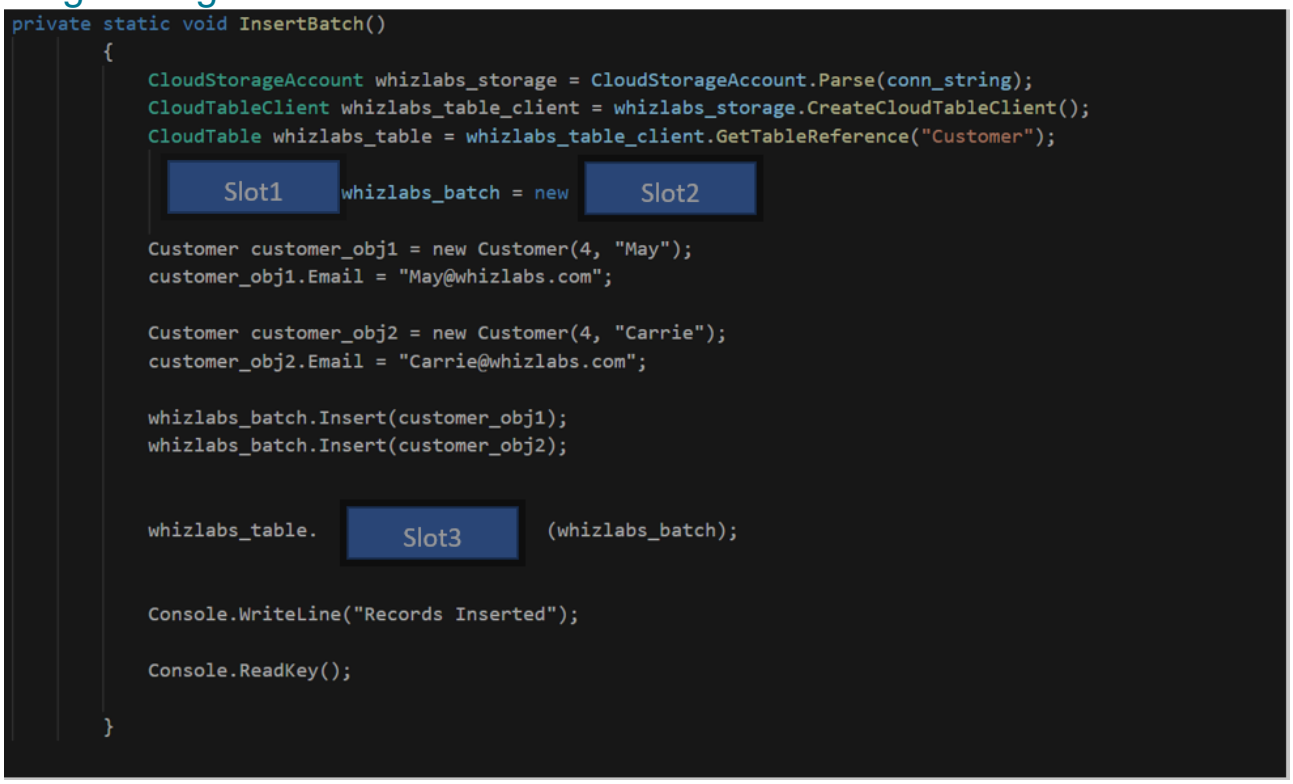
- D. TableQuery

Explanation
Since this is a batch operation, we have to use the TableBatchOperation Type. An example is also given in the Microsoft documentation ;Since this is clearly given in the Microsoft documentation, all other options are incorrect ;For more information on using table storage with .Net, one can go to the below link ;https://docs.microsoft.com/en-us/azure/cosmos-db/table-storage-how-to-use-dotnet

Question 7: Skipped

A development team is developing an application. The application will be storing its data in Azure Table storage. Below are the fields that are going to be stored in the table ;
Region ;
Email address ;
Phone number ;
The following snippet of code needs to be completed that would be used to insert a batch of records.

Larger image



Which of the following will go into Slot3?

- A. ExecuteBatch

  (Correct)

- B. Execute

- C. Insert

- D. InsertOrMerge

Explanation
We have to use the ExecuteBatch method to Execute the Insertion of the Batch of records. An example is also given in the Microsoft documentation ;Since this is clearly given in the Microsoft documentation, all other options are incorrect ;For more information on using table storage with .Net, one can go to the below link ;https://docs.microsoft.com/en-us/azure/cosmos-db/table-storage-how-to-use-dotnet

Question 8: Skipped

Your company has an ASP.Net Core web application. This web application runs on Docker. The application is mapped to a domain named www.skillcertlabs.com. ;
The application needs to be hosted in Azure using Azure Web App service and the docker image for the web application. You also

have to map a custom domain to the Azure Web app service. The following variables are in place ;
Variable name Description ;
skillcertlabsAppName Name of the application ;
Location Location of the resource ;
dockerHubContainerPath Location of the docker image ;
You have to issue the required CLI commands for the provisioning process. ;
Which of the following would you issue to create the App Service plan?

- A. az appservice plan create --name skillcertlabsplan --resource-group skillcertlabs-rg

- B. az appservice plan create --name skillcertlabsplan --resource-group skillcertlabs-rg --location $location --is-linux --sku S1

  (Correct)

- C. az appservice plan set --name skillcertlabsplan --resource-group skillcertlabs-rg --location $location --is-linux --sku S1

- D. az appservice plan docker create --name skillcertlabsplan --resource-group skillcertlabs-rg --location $location --is-linux --sku S1

Explanation
An example of this is given in the Microsoft documentation ;Since this is clearly given in the documentation, all other options are incorrect ;For more information on create a linux docker web app, one can go to the below link ;https://docs.microsoft.com/en-us/azure/app-service/scripts/cli-linux-docker-aspnetcore

Question 9: Skipped

Your company has an ASP.Net Core web application. This web application runs on Docker. The application is mapped to a domain named www.skillcertlabs.com. ;
The application needs to be hosted in Azure using Azure Web App service and the docker image for the web application. You also have to map a custom domain to the Azure Web app service. The following variables are in place ;
Variable name Description ;
skillcertlabsAppName Name of the application ;
Location Location of the resource ;
dockerHubContainerPath Location of the docker image ;
You have to issue the required CLI commands for the provisioning process. ;
Which of the following would you issue to create the Web App?

- A. az webapp create --name $appName --plan skillcertlabsplan --resource-group skillcertlabs-rg

  (Correct)

- B. az webapp set--name $appName --plan skillcertlabsplan --resource-group skillcertlabs-rg

- C. az docker create --name $appName --plan skillcertlabsplan --resource-group skillcertlabs-rg

- D. az docker image create --name $appName --plan skillcertlabsplan --resource-group skillcertlabs-rg

Explanation
An example of this is given in the Microsoft documentation ;Since this is clearly given in the documentation, all other options are incorrect ;For more information on create a linux docker web app, one can go to the below link ;https://docs.microsoft.com/en-us/azure/app-service/scripts/cli-linux-docker-aspnetcore

Question 10: Skipped

Your company has an ASP.Net Core web application. This web application runs on Docker. The application is mapped to a domain named www.skillcertlabs.com. ;
The application needs to be hosted in Azure using Azure Web App service and the docker image for the web application. You also have to map a custom domain to the Azure Web app service. The following variables are in place ;
Variable name Description ;
skillcertlabsAppName Name of the application ;
Location Location of the resource ;
dockerHubContainerPath Location of the docker image ;
You have to issue the required CLI commands for the provisioning process. ;
Which of the following would you issue to configure the Web App?

- A. az webapp config container set --docker-custom-image-name $dockerHubContainerPath --name $appName --resource-group skillcertlabs-rg

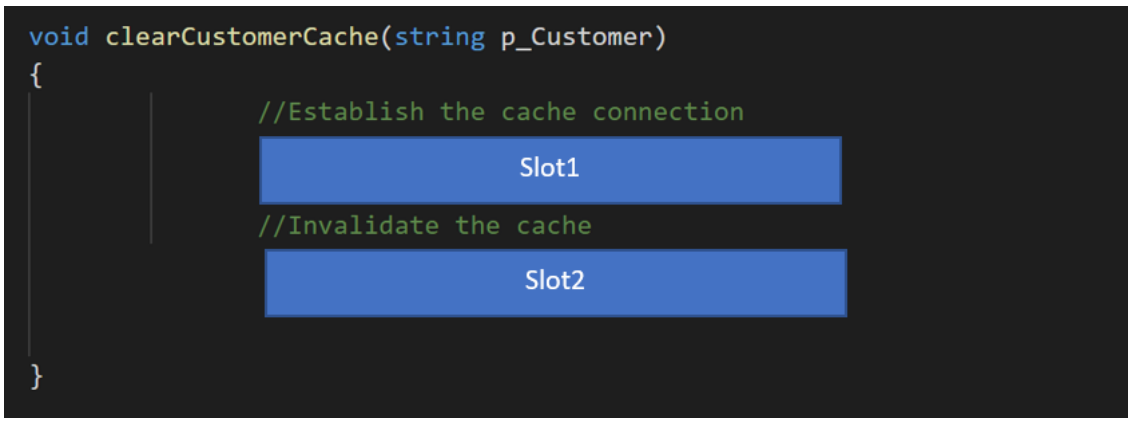
(Correct)

- B. az docker config container set --docker-custom-image-name $dockerHubContainerPath --name $appName --resource-group skillcertlabs-rg

- C. az kubernetes config container set --docker-custom-image-name $dockerHubContainerPath --name $appName --resource-group skillcertlabs-rg

- D. az kubectl config container set --docker-custom-image-name $dockerHubContainerPath --name $appName --resource-group skillcertlabs-rg

Explanation
An example of this is given in the Microsoft documentation ;Since this is clearly given in the documentation, all other options are incorrect ;For more information on create a linux docker web app, one can go to the below link ;https://docs.microsoft.com/en-us/azure/app-service/scripts/cli-linux-docker-aspnetcore
Question 11: Skipped
A development team is developing an application. The application will be working with customer data. The application will also be making use of Azure Redis Cache. You need to invalidate the cache when the customer data is changed. ;
You have to complete the below code to comply with the requirement ;
Larger image



Which of the following will go into Slot1?

- A. IDatabase cache=Connection.GetDatabase();

  (Correct)

- B. IDatabase cache=Connection.GetCache();

- C. ICache cache=Connection.GetDatabase();

- D. ICache cache=Connection.GetCache();

Explanation

The right way is to use the IDatabase interface. Also you need to use the GetDatabase() method. This is also mentioned in the Microsoft documentation. ;Since this is clearly given in the Microsoft documentation, all other options are incorrect ;For more information on

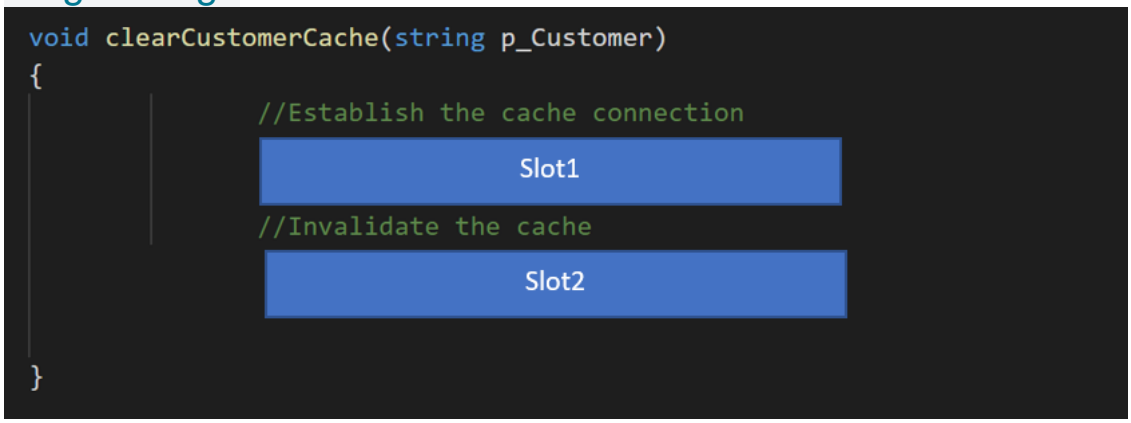
an example on how to work with Azure Redis from .Net, one can go to the below link ;https://docs.microsoft.com/en-us/azure/azure-cache-for-redis/cache-dotnet-how-to-use-azure-redis-cache

Question 12: Skipped

A development team is developing an application. The application will be working with customer data. The application will also be making use of Azure Redis Cache. You need to invalidate the cache when the customer data is changed.

You have to complete the below code to comply with the requirement ;

Larger image



Which of the following will go into Slot2?

- A. cache.KeyDelete(p_Customer);

  (Correct)

- B. cache.ValueDelete(p_Customer);

- C. cache.StringGet(p_Customer);

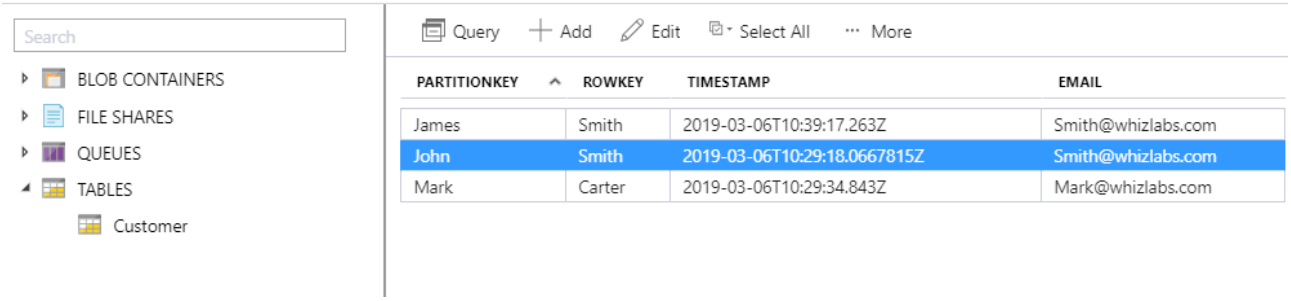
- D. cache.StringSet(p_Customer);

Explanation
Since you have to invalidate the cache, you have to delete the Key itself ;Option B is incorrect since you need to work with keys and not the values ;Option C is incorrect this is used to get the string value ;Option D is incorrect this is used to set the string value ;For more information on an example on how to work with Azure Redis from .Net, one can go to the below link ;https://docs.microsoft.com/en-us/azure/azure-cache-for-redis/cache-dotnet-how-to-use-azure-redis-cache

Question 13: Skipped

A development team is developing an application that works with Azure Table storage. ;
Below is the table structure ;
Column ;
FirstName Partition Key ;
LastName RowKey ;
Email Property ;
Below are some of the rows in the table ;

Larger image



You have the following code statement from a C# program

Larger image

```
TableQuery<CustomerEntity> rangeQuery = new TableQuery<CustomerEntity>().Where(
    TableQuery.CombineFilters(
        TableQuery.GenerateFilterCondition("PartitionKey", QueryComparisons.Equal, "James"),
        TableOperators.And,
        TableQuery.GenerateFilterCondition("RowKey", QueryComparisons.Equal, "Smith@whizlabs.com")));
```

Would this return all the entities where the RowKey is Smith@skillcertlabs.com?

- A. Yes

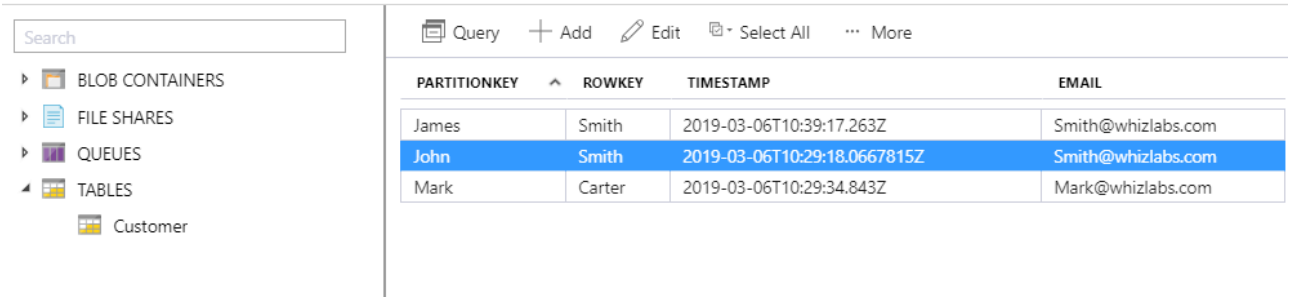
- B. No

(Correct)

Explanation
Here since we have the AND operator, we need both of the conditions to be fulfilled. ;And this is not fulfilled with the following row ;For more information on accessing table storage from .Net, one can go to the below link ;https://docs.microsoft.com/en-us/azure/cosmos-db/table-storage-how-to-use-dotnet

Question 14: Skipped

A development team is developing an application that works with Azure Table storage.
Below is the table structure ;
Column ;
FirstName Partition Key ;
LastName RowKey ;
Email Property ;
Below are some of the rows in the table ;
Larger image



Is the below.Net Code query ;
Larger image

```
TableQuery<CustomerEntity> rangeQuery = new TableQuery<CustomerEntity>().Where(
    TableQuery.CombineFilters(
        TableQuery.GenerateFilterCondition("PartitionKey", QueryComparisons.Equal, "James"),
        TableOperators.And,
        TableQuery.GenerateFilterCondition("RowKey", QueryComparisons.Equal, "Smith")));
```

Same as executing the below REST API call along with a valid Shared Access Signature ; https://skillcertlabsstore.table.core.windows.net/Customer(PartitionKey='James',RowKey='Smith')

- A. Yes

  (Correct)

- B. No

Explanation

Yes, this is the same. Below is an example of the request sent from a POSTMAN tool. Here you can see the valid output of the entity. ;For more information on accessing table storage from REST API, one can go to the below link ;https://docs.microsoft.com/en-us/rest/api/storageservices/querying-tables-and-entities

Question 15: Skipped

As a developer you need to create a Dockerfile for an application. The application will be based on ASP.Net core. The application has the following requirements ;Ensure that the application skillcertlabsApp.dll runs at the startup of the docker container ;Run a powershell script called skillcertlabscsript.ps1 in the Docker container ;The skillcertlabsApp.dll and the skillcertlabscsript.ps1 are in the same location as the DockerFile. Which of the following commands would you place in the DockerFile?

- A. FROM microsoft/dotnet:2.2-aspnetcore-runtime

(Correct)

- B. EXPOSE skillcertlabsApp.dll ,skillcertlabscsript.ps1

- C. ENTRYPOINT ["dotnet", "skillcertlabsApp.dll "]

  (Correct)

- D. ENTRYPOINT ["skillcertlabsApp.dll" ,"skillcertlabscsript.ps1"]

- E. RUN powershell "skillcertlabscsript.ps1"

  (Correct)

- F. RUN "skillcertlabsApp.dll","skillcertlabscsript.ps1"

Explanation
Examples of DockerFiles are given in the Microsoft documentation. The below example shows how to define the base image and run an application on startup of the docker container ;And the below example shows how to run a powershell script ;Based on the examples given in

the documentation, all other options are incorrect ;For more information on a complete docker application workflow, one can go to the below link ;https://docs.microsoft.com/en-us/dotnet/standard/microservices-architecture/docker-application-development-process/docker-app-development-workflow

Question 16: Skipped

A team has created an Index in the Azure Search service. You have to upload data into the Index. You propose the following steps to carry out from your .Net program ;Create a SearchServiceClient object to connect to the search index. ;Create a DataContainer that contains the documents which must be added. ;Create a DataSource instance and set its Container property to the DataContainer. ;Set the DataSource property of the SearchServiceClient ;Does the list of steps fulfil the requirement?

- A. Yes
- B. No (Correct)

Explanation

The correct list of steps is given below as per an example from the Microsoft documentation ;For an example on the steps for importing data, one can go to the below link ;https://docs.microsoft.com/en-us/azure/search/search-import-data-dotnet

Question 17: Skipped

A team has created an Index in the Azure Search service. You have to upload data into the Index. You propose the following steps to carry out from your .Net program ;Create a SearchIndexClient object to connect to the search index ;Create an IndexBatch that contains the documents which must be added. ;Call the Documents.Index method of the SearchIndexClient and pass the IndexBatch. ;Does the list of steps fulfil the requirement?

- A. Yes

  (Correct)

- B. No

Explanation
Yes, this is the correct list of steps as shown below from the Microsoft documentation ;For an example on the steps for importing data, one can go to the below link ;https://docs.microsoft.com/en-us/azure/search/search-import-data-dotnet

Question 18: Skipped

A team has created an Index in the Azure Search service. You have to upload data into the Index. You propose the following steps to carry out from your .Net program ;Create a SearchIndexClient object to connect to the search index. ;Create a DataContainer that contains the documents which must be added. ;Create a DataSource instance and set its Container property to the DataContainer ;Call the Documents.Search method of the SearchIndexClient and pass the DataSource. ;Does the list of steps fulfil the requirement?

- A. Yes

- B. No

  (Correct)

Explanation
The correct list of steps is given below as per an example from the Microsoft documentation ;For an example on the steps for importing data, one can go to the below link ;https://docs.microsoft.com/en-us/azure/search/search-import-data-dotnet
Question 19: Skipped
A developer has created a table in an Azure storage account called "Customers". The data in the table is partitioned by the column firstname. The developer needs to write a query that would return all the customers with the first name of "Dave". Which of the following is the right code segment for the Where clause?

- A. TableQuery.GenerateFilterCondition("PartitionKey", QueryComparisons.Equal, "Dave")

  (Correct)

- B. TableQuery.GenerateFilterCondition("PartitionKey", Equals, "Dave")

- C. TableQuery.GenerateFilterCondition("firstname", QueryComparisons.Equal, "Dave")

- D. TableQuery.GenerateFilterCondition("firstname", Equal, "Dave")

Explanation
An example of this is given in the Microsoft documentation as shown below. Here you need to search via the partition key and use the QueryComparisions clause. ;Since this is clearly given in the Microsoft documentation, all other options are incorrect ;For an example on using table storage from .Net, one can go to the below link ;https://docs.microsoft.com/en-us/azure/cosmos-db/table-storage-how-to-use-dotnet

Question 20: Skipped

A company is developing an application for a company. The application is making use of CosmosDB as the backend store. The application store patient details for a hospital. ;Below are the key requirements for certain modules ;
Requirement 1 - The status for the patient must be the most recent. This should be the case even if multiple users in different locations update the patient's records ;
Requirement 2 - The health for a patient is recorded by one module. Here it needs to be ensured that the data must be either the current version or a prior version ;
Requirement 3 - When the patient is being discharged, all charges should be processed, and the final bill should be processed ;You have to ensure that you minimize the latency and any impact on the availability of the solution
Which of the following consistency level would you choose for Requirement1?

- A. Strong

  (Correct)

- B. Bounded Staleness

- C. Consistent Prefix
- D. Eventual

Explanation
Here since the requirement is that the patient's record should be the most consistent, there is a need for consistency in data and no staleness. So, we have to choose Strong consistency for this. The Microsoft documentation mentions the following on the consistency level. ;The other consistency level options will not give you the required level of consistency ;For more information on consistency levels, one can go to the below link ;https://docs.microsoft.com/en-us/azure/cosmos-db/consistency-levels

Question 21: Skipped

A company is developing an application for a company. The application is making use of CosmosDB as the backend store. The application store patient details for a hospital. ;Below are the key requirements for certain modules ;
Requirement 1 - The status for the patient must be the most recent. This should be the case even if multiple users in different locations update the patient's records ;
Requirement 2 - The health for a patient is recorded by one module. Here it needs to be ensured that the data must be either the current version or a prior version ;
Requirement 3 - When the patient is being discharged, all charges should be processed, and the final bill should be processed ;You have to ensure that you minimize the latency and any impact on the availability of the solution
Which of the following consistency level would you choose for Requirement2?

-

A. Strong

- B. Bounded Staleness

  (Correct)

- C. Consistent Prefix

- D. Eventual

Explanation
Here you can have consistency up to a certain level. From the Microsoft documentation, you can see that this consistency level provides a feature of providing consistency up to a certain number of versions of an item. ;Since this is the best consistency preference as per the requirement, all the options are invalid. ;For more information on consistency levels, one can go to the below link ;https://docs.microsoft.com/en-us/azure/cosmos-db/consistency-levels

Question 22: Skipped

A company is developing an application for a company. The application is making use of CosmosDB as the backend store. The application store patient details for a hospital. ;Below are the key requirements for certain modules ;
Requirement 1 - The status for the patient must be the most recent. This should be the case even if multiple users in different locations update the patient's records ;

Requirement 2 - The health for a patient is recorded by one module. Here it needs to be ensured that the data must be either the current version or a prior version ;
Requirement 3 - When the patient is being discharged, all charges should be processed, and the final bill should be processed ;You have to ensure that you minimize the latency and any impact on the availability of the solution
Which of the following consistency level would you choose for Requirement3?

- A. Strong
- B. Bounded Staleness
- C. Consistent Prefix
- D. Eventual

(Correct)

Explanation
Since we here we just need to wait for the final charges, we can just wait for all changes to take effect so here the most effective would be Eventual consistency. ;The Microsoft documentation mentions the following on the consistency level. ;Since this is the best consistency preference as per the requirement, all the options are invalid. ;For more

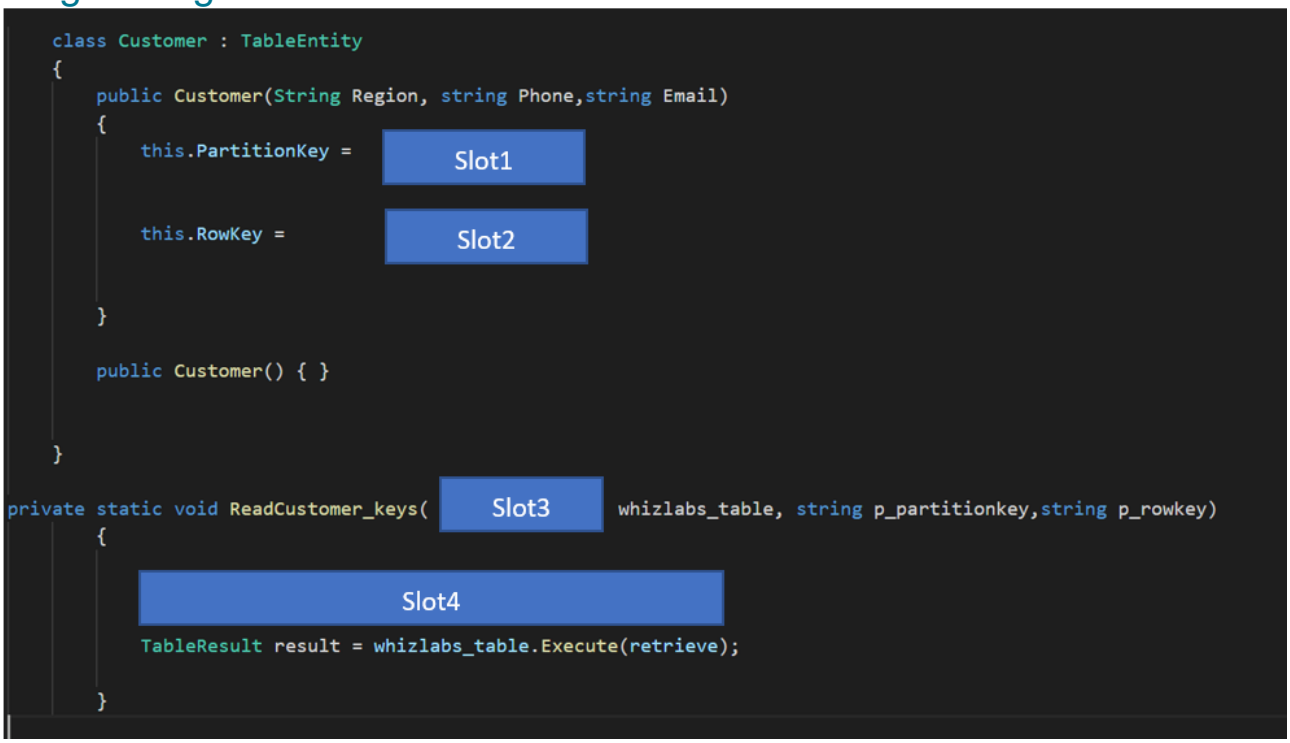
information on consistency levels, one can go to the below link ;https://docs.microsoft.com/en-us/azure/cosmos-db/consistency-levels

Question 23: Skipped

View Case Study ;

- A development team is developing an application. The application will be storing its data in Azure Table storage. Below are the fields that are going to be stored in the table:
- Region
- Email address
- Phone number
-
- Below are some key aspects with respect to the fields:
- The region field will be used to load balance the data
- There is a chance that some entities may have blank phone numbers.
-
- The following snippet of code needs to be completed that would be used to retrieve a particular data entity from the table

Larger image



Which of the following will go into Slot1?

-

A. Region

(Correct)

- B. Phone
- C. Email
- D. ID

Explanation
Since the question states that we will be using Region to load balance the data, we have to use that as the partition key. The Microsoft documentation mentions the following on the partition key design ;For more information on Azure Table storage design, one can go to the below link ;https://docs.microsoft.com/en-us/azure/cosmos-db/table-storage-design-guide

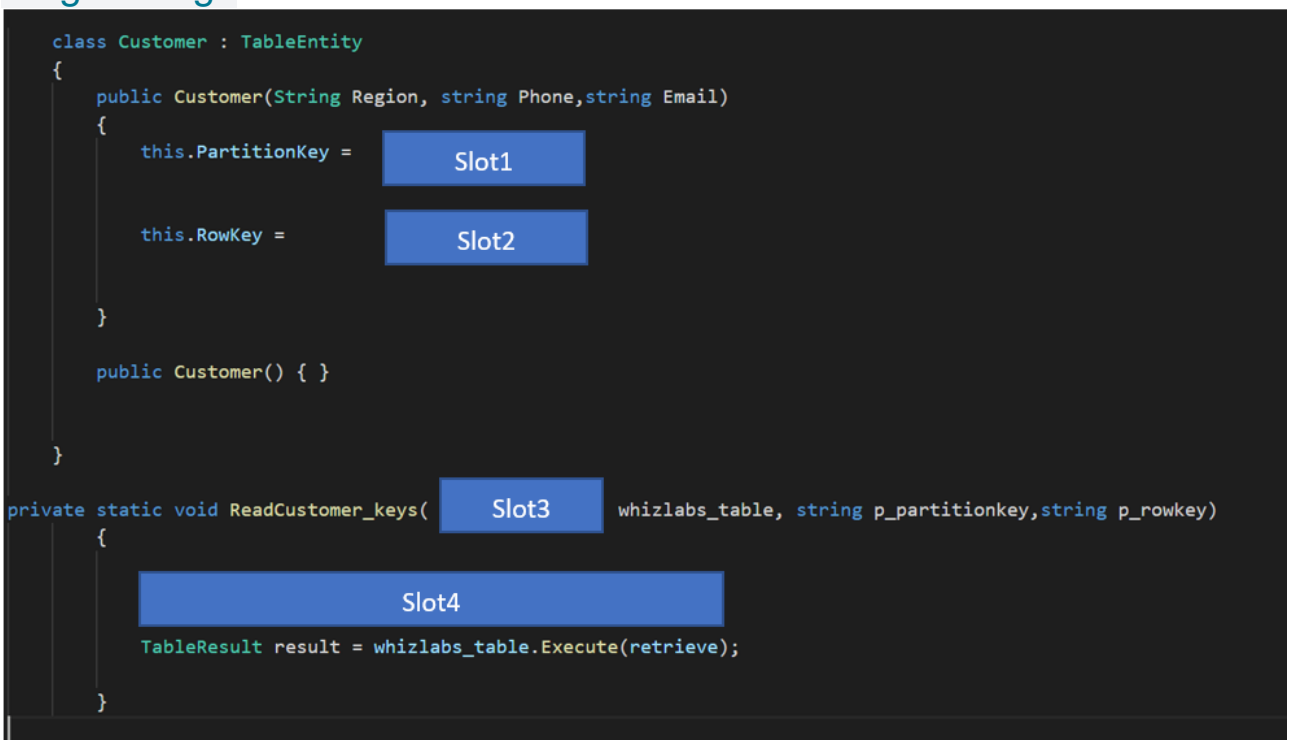
Question 24: Skipped

View Case Study ;

- A development team is developing an application. The application will be storing its data in Azure Table storage. Below are the fields that are going to be stored in the table:
- Region
- Email address
- Phone number
-
- Below are some key aspects with respect to the fields:
- The region field will be used to load balance the data
- There is a chance that some entities may have blank phone numbers.
-

- The following snippet of code needs to be completed that would be used to retrieve a particular data entity from the table

Larger image



Which of the following will go into Slot2?

- A. Region
- B. Phone
- C. Email

(Correct)

- D. ID

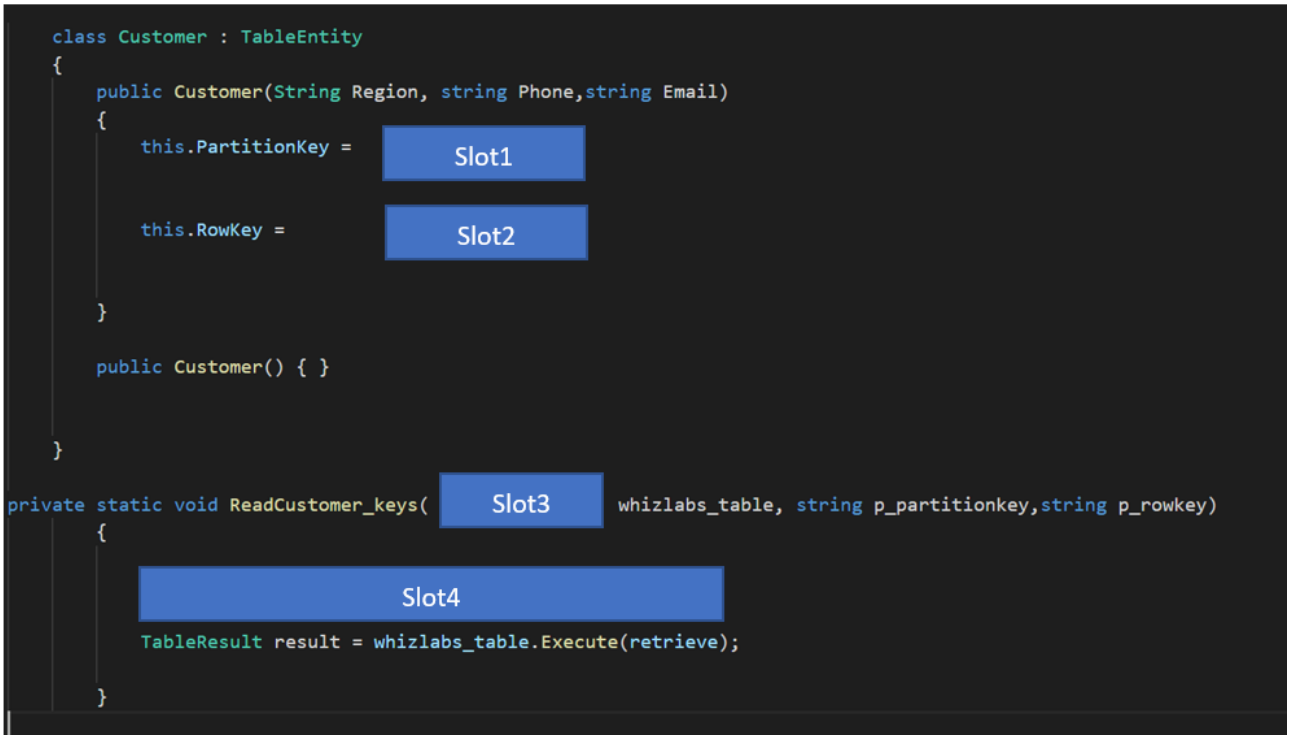
Explanation
You need to have a value for the RowKey. So, if the Phone field has missing values for some of the entities, then we have to choose Email as the RowKey. The Microsoft documentation mentions the following on the Row Key ;For more information on understanding the table service data model, one can go to the below link ;https://docs.microsoft.com/en-us/rest/api/storageservices/understanding-the-table-service-data-model

Question 25: Skipped

View Case Study ;

- A development team is developing an application. The application will be storing its data in Azure Table storage. Below are the fields that are going to be stored in the table:
- Region
- Email address
- Phone number
-
- Below are some key aspects with respect to the fields:
- The region field will be used to load balance the data
- There is a chance that some entities may have blank phone numbers.
-
- The following snippet of code needs to be completed that would be used to retrieve a particular data entity from the table

Larger image



Which of the following will go into Slot3?

- A. CloudTable

  (Correct)

- B. CloudTableClient

- C. TableEntity

- D. TableEntityAdapter

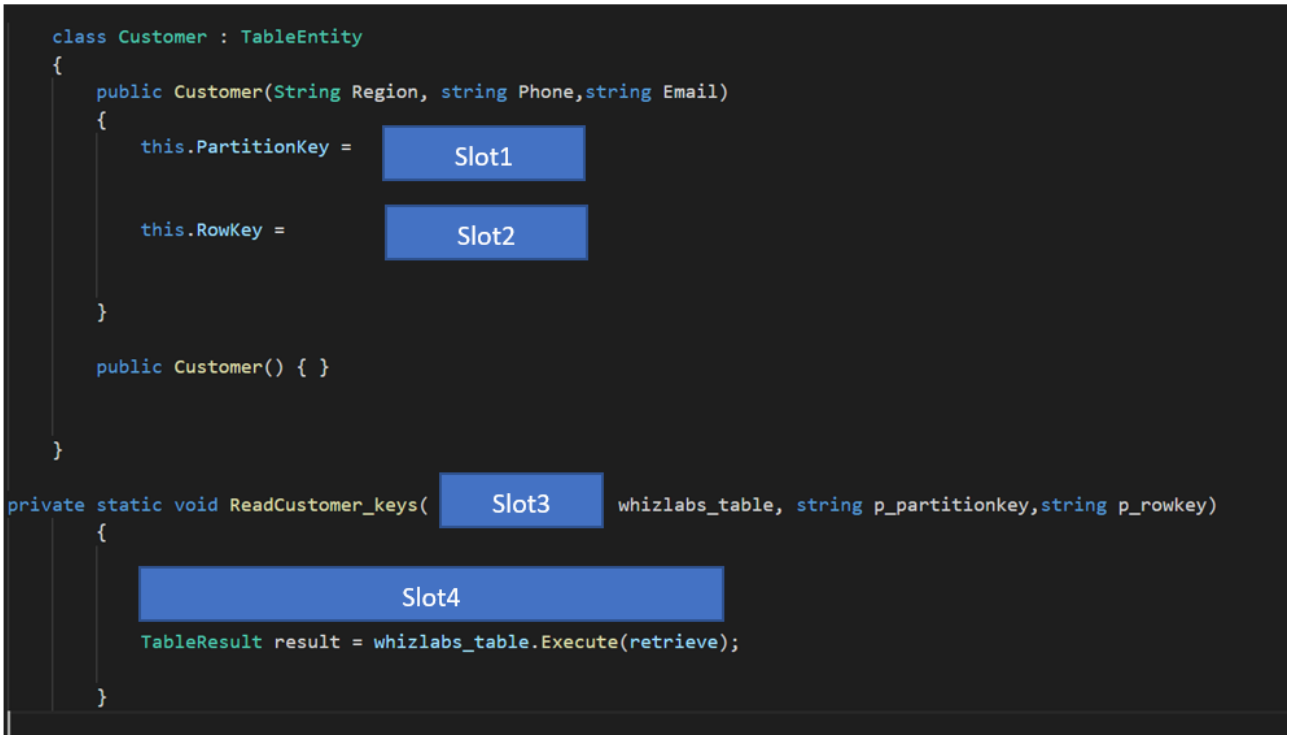
Explanation
Since we are passing in a table parameter, and this would be a reference to our cloud table, we would need to use the CloudTable data type. ;An example snippet of code in the Microsoft documentation is given below ;Since this is clearly given in the Microsoft documentation, all other options are incorrect ;For more information on using table storage with .Net, one can go to the below link ;https://docs.microsoft.com/en-us/azure/cosmos-db/table-storage-how-to-use-dotnet

Question 26: Skipped

View Case Study ;

- A development team is developing an application. The application will be storing its data in Azure Table storage. Below are the fields that are going to be stored in the table:
- Region
- Email address
- Phone number
-
- Below are some key aspects with respect to the fields:
- The region field will be used to load balance the data
- There is a chance that some entities may have blank phone numbers.
-
- The following snippet of code needs to be completed that would be used to retrieve a particular data entity from the table

Larger image



Which of the following will go into Slot4?

- A. TableEntity retrieve=TableEntity.Retrieve(p_partitionkey,p_rowkey)

- B. TableOperation retrieve=TableOperation.Retrieve(p_partitionkey,p_rowkey)

  (Correct)

- C. TableResult retrieve=TableQuery.Retrieve(p_partitionkey,p_rowkey)

-

D. TableResultSegment retrieve=TableResult.Retrieve(p_partitionkey,p_rowkey)

Explanation
If we need to retrieve an entity based on the partition and row key , we will need to use the TableOperation method. ;An example snippet of code in the Microsoft documentation is given below ;Since this is clearly given in the Microsoft documentation, all other options are incorrect ;For more information on using table storage with .Net, one can go to the below link ;https://docs.microsoft.com/en-us/azure/cosmos-db/table-storage-how-to-use-dotnet

Question 27: Skipped

A team is developing a software that will generate large data sets. These large data sets will be processed by nodes in the Azure Batch Service. In the program , you have to create the compute nodes for Azure Batch. Which of the following would you do?

- A. In the program, implement a class for TaskAddParameter
- B. In the program, implement a class for JobAddParameter
- C. In the program, call the method - BatchClient.PoolOperations.CreatePool

  (Correct)

D. In the program, call the method - BatchClient.VMOperations.CreateVM

Explanation
The Microsoft documentation clearly gives the command for creating a pool of Virtual Machines as shown below ;The Batch client class and the CreatePool method are used to create a pool of instances ;Since this is clearly given in the Microsoft documentation, all other options are incorrect ;For more information on using .Net to work with Batch clients, one can go to the below link ;https://docs.microsoft.com/en-us/azure/batch/quick-run-dotnet

Question 28: Skipped

A team is developing container-based applications that need to be deployed to a Kubernetes cluster in Azure. You have to create the cluster and ensure the services are running as desired. Which of the following commands would you execute? Choose 4 answers from the options given below

- A. az aks create

  (Correct)

- B. az group create

  (Correct)

- C. kubectl apply

  (Correct)

- D. az appservice plan create

- E. az aks get-credentials

(Correct)

Explanation
An example of the steps which need to be followed are given below ;The first command is used to create a resource group in Azure. An example is given below ;The next command is used to create the kubernetes cluster. An example is given below ;Next you need to merge the Kubernetes cluster credentials. An example is given below ;And then finally you can use “kubectl apply” to deploy your application onto the cluster ;Option D is incorrect since we don’t need an App service plan for a Kubernetes cluster. ;For more information on using the Azure CLI to work with Kubernetes clusters, one can go to the below link ;https://docs.microsoft.com/en-us/azure/aks/kubernetes-walkthrough

Question 29: Skipped

A company has a web application that has been deployed using the Azure Web App service. The current service plan being used is D1. It needs to be ensured that the application infrastructure can automatically scale when the CPU load reaches 85 percent. You also have to ensure costs are minimized. Which of the following steps would you implement to achieve the requirements? Choose 4 answers from the options given below

- A. Enable autoscaling on the Web application

(Correct)

- B. Configure a scale condition

  (Correct)

- C. Configure the web application to use the Standard App Service Plan

  (Correct)

- D. Configure the web application to use the Premium App Service Plan

- E. Add a scale rule.

  (Correct)

Explanation
Since the app service plan being used is D1, that means this is the Shared Service Plan as shown below. And this plan does not have support for Autoscaling ;Step 1) We have to scale up to at least the Standard App service plan. ;Once this is done, you can now see the ability to enable Autoscale when you go to the Scale out section for the Azure Web App ;Step 2) Next you add a scale condition and a rule for autoscaling based on a CPU threshold. ;Option D is incorrect since the Premium app service plan would be a more expensive option. ;For more information on Azure Web App Autoscaling, one can go to the below

link ;https://blogs.msdn.microsoft.com/benjaminperkins/2017/07/26/how-to-configure-auto-scaling-for-an-azure-app-service-with-powershell/

Question 30: Skipped

A company is planning on using the Azure CDN service to distribute static images. ;
Below is a set of steps in a random order which would be followed by the CDN service. ;
1. The Origin server will return an image to the Edge server in the Point of Presence. The edge server will cache the image and return the image to the user ;
2. If no edge server in the Point of Presence has an image in the cache, the Point of Presence will request the image from the origin server. ;
3. A user requests an image from the CDN URL. The DNS routes the request to the best performing Point of Presence location ;
4. Subsequent requests for the image may be directed to the same Point of Presence. The Point of Presence will return the image if the TTL has not expired.
Which of the following is the correct process of how the Content Delivery service would distribute the images?

- A. 3,2,1,4

  (Correct)

- B. 2,1,3,4

- C. 1,2,3,4

- D. 4,3,2,1

Explanation
An example of this is given in the Microsoft documentation ;Since the steps are clearly mentioned, all other options are incorrect ;For more information on Azure Web App Autoscaling, one can go to the below link ;https://docs.microsoft.com/en-us/azure/cdn/cdn-overview

Question 31: Skipped

A team needs to manage several Logic Apps. There is a need to change definitions, add new logic and optimize the applications on a regular basis. You need to ensure that you use the right tools for the right purpose. ;Which of the following would you use to edit B2B workflows?

- A. Logic Apps Designer
- B. Code View Editor
- C. Enterprise Integration Pack

  (Correct)
- D. API Connections

Explanation
This is given in the Microsoft documentation ;Since this is clearly given, all other options are incorrect ;For more information on enterprise integration with B2B, one can go to the below link ;https://docs.microsoft.com/en-us/azure/logic-apps/logic-apps-enterprise-integration-b2b

Question 32: Skipped

A team needs to manage several Logic Apps. There is a need to change definitions, add new logic and optimize the applications on a regular basis. You need to ensure that you use the right tools for the right purpose. ;Which of the following would you use to edit definitions in JSON?

- A. Logic Apps Designer
- B. Code View Editor

  (Correct)
- C. Enterprise Integration Pack
- D. API Connections

Explanation

You can use the App Code view of Azure Logic Apps as shown below. ;Since this is evident from the implementation, all other options are invalid. ;For more information on authoring definitions in Azure Logic Apps, one can go to the below link ;https://docs.microsoft.com/en-us/azure/logic-apps/logic-apps-author-definitions

Question 33: Skipped

A team needs to manage several Logic Apps. There is a need to change definitions, add new logic and optimize the applications on a regular basis. You need to ensure that you use the right tools for the right purpose. ;Which of the following would you use to visually add functionality to the Logic App?

- A. Logic Apps Designer **(Correct)**
- B. Code View Editor
- C. Enterprise Integration Pack
- D. API Connections

Explanation

You can use the Logic Apps Designer as shown below. There you can create and add functionality to the Logic App using the Designer. ;Since this is evident from the implementation, all other options are invalid. ;For

more information on an example on using Azure Logic Apps, one can go to the below link ;https://docs.microsoft.com/en-us/azure/logic-apps/quickstart-create-first-logic-app-workflow

Question 34: Skipped

A team is developing a project management service by using ASP.NET. One of the modules of the service needs to allow users to search for keywords in the index data hosted in Azure Search. You need to implement code that creates the object which is used to create indexes ;in the Azure Search service. Which of the following objects would you use for this purpose? Choose 2 answers from the options given below

- A. SearchService
- B. SearchIndexClient
- C. SearchServiceClient

  (Correct)
- D. SearchCredentials

  (Correct)

Explanation

You have to use the SearchServiceClient and use the Indexes property as shown below in the Microsoft documentation. And the other object

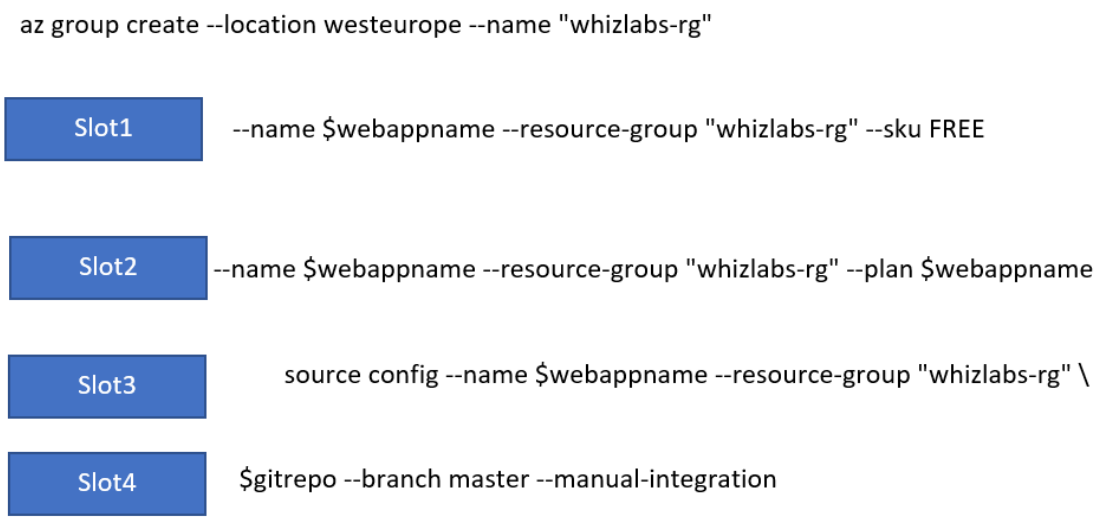
you would use is the SearchCredentials object which has the credentials to connect to the Search service. ;Since this is clearly given in the Microsoft documentation, all other options are incorrect ;For more information on creating an index in .Net, one can go to the below link ;https://docs.microsoft.com/en-us/azure/search/search-create-index-dotnet

Question 35: Skipped

A company needs to develop a script that will do the following ;
Create an Azure Web App ;
Create the Web App service plan ;
Ensure automatic deployment of code from Github ;

The following variables are in place ;
Variable Name Variable value ;
$gitrepo https://github.com/skillcertlabs/app ;
$webappname skillcertlabsapp ;
You have to complete the following script

Larger image



Which of the following would go into Slot1?

- A. az webapp create
- B. az appservice plan create

(Correct)

- C. az webapp deployment

- D. az group assign

Explanation
This is given as an example in the Microsoft documentation
Question 36: Skipped
A company needs to develop a script that will do the following ;
Create an Azure Web App ;
Create the Web App service plan ;
Ensure automatic deployment of code from Github ;

The following variables are in place ;
Variable Name Variable value ;
$gitrepo https://github.com/skillcertlabs/app ;
$webappname skillcertlabsapp ;
You have to complete the following script
Larger image

az group create --location westeurope --name "whizlabs-rg"

Slot1 --name $webappname --resource-group "whizlabs-rg" --sku FREE

Slot2 --name $webappname --resource-group "whizlabs-rg" --plan $webappname

Slot3 source config --name $webappname --resource-group "whizlabs-rg" \

Slot4 $gitrepo --branch master --manual-integration

Which of the following would go into Slot2?

- A. az webapp create

  (Correct)

- B. az appservice plan create

- C. az webapp deployment

- D. az group assign

Explanation

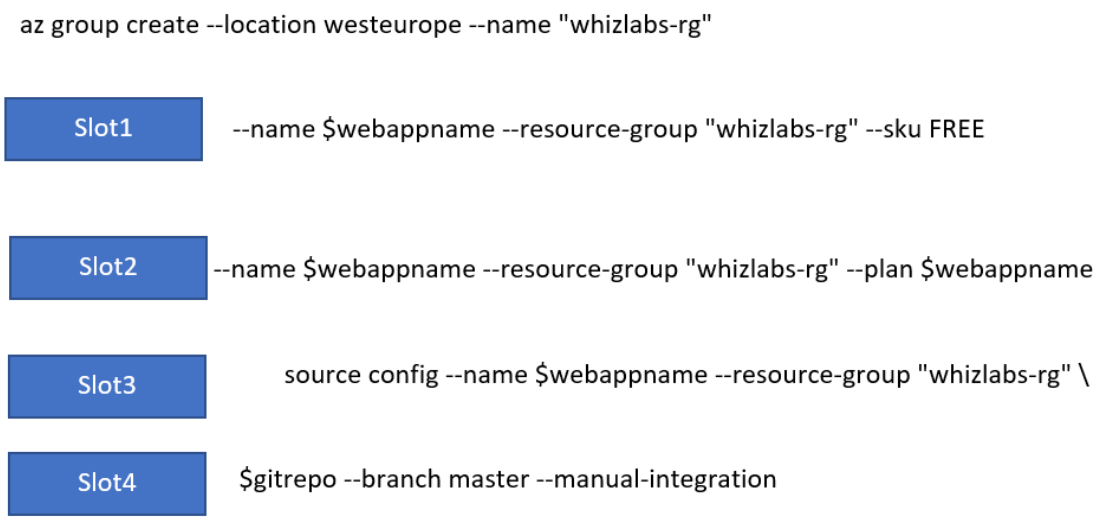
This is given as an example in the Microsoft documentation ;Since this is clearly given in the documentation, all other options are incorrect ;For more information on using the CLI for deployment, one can go to the below link ;https://docs.microsoft.com/en-us/azure/app-service/scripts/cli-deploy-github

Question 37: Skipped

A company needs to develop a script that will do the following ;
Create an Azure Web App ;
Create the Web App service plan ;
Ensure automatic deployment of code from Github ;

The following variables are in place ;
Variable Name Variable value ;
$gitrepo https://github.com/skillcertlabs/app ;
$webappname skillcertlabsapp ;
You have to complete the following script

Larger image



Which of the following would go into Slot3?

- A. az webapp create
- B. az appservice plan create

- C. az webapp deployment

  (Correct)

- D. az group assign

Explanation
This is given as an example in the Microsoft documentation ;Since this is clearly given in the documentation, all other options are incorrect ;For more information on using the CLI for deployment, one can go to the below link ;https://docs.microsoft.com/en-us/azure/app-service/scripts/cli-deploy-github

Question 38: Skipped

A company needs to develop a script that will do the following ;
Create an Azure Web App ;
Create the Web App service plan ;
Ensure automatic deployment of code from Github ;

The following variables are in place ;
Variable Name Variable value ;
$gitrepo https://github.com/skillcertlabs/app ;
$webappname skillcertlabsapp ;
You have to complete the following script
Larger image

```
az group create --location westeurope --name "whizlabs-rg"

Slot1   --name $webappname --resource-group "whizlabs-rg" --sku FREE

Slot2   --name $webappname --resource-group "whizlabs-rg" --plan $webappname

Slot3   source config --name $webappname --resource-group "whizlabs-rg" \

Slot4   $gitrepo --branch master --manual-integration
```

Which of the following would go into Slot4?

- A. --repo-url

  (Correct)

- B. --github-deploy

- C. --github-repo

- D. --repo-deploy

Explanation

This is given as an example in the Microsoft documentation ;Since this is clearly given in the documentation, all other options are incorrect ;For more information on using the CLI for deployment, one can go to the below link ;https://docs.microsoft.com/en-us/azure/app-service/scripts/cli-deploy-github

Question 39: Skipped

Your team is developing Azure Web jobs. You have to decide on the type of Webjobs to be used for different scenarios:
Runs on all instances that the web app runs on. ;
Have the ability to restrict the web job to run on a single instance ;
Supports remote debugging ;
Ability to run based on a schedule ;
Which of the following web job type would you choose for the below requirement?
“Runs on all instances that the web app runs on.”

- A. Triggered
- B. Continuous

  (Correct)
- C. Scheduled
- D. Instance

Explanation
This is given in the Microsoft documentation as shown below ;Since this is clearly given in the documentation, all other options are incorrect ;For more information on creating web jobs, one can go to the below link ;https://docs.microsoft.com/en-us/azure/app-service/webjobs-create
Question 40: Skipped
Your team is developing Azure Web jobs. You have to decide on the type of Webjobs to be used for different scenarios:
Runs on all instances that the web app runs on. ;
Have the ability to restrict the web job to run on a single instance ;
Supports remote debugging ;
Ability to run based on a schedule ;
Which of the following web job type would you choose for the below requirement?
“Have the ability to restrict the web job to run on a single instance”

- A. Triggered
- B. Continuous **(Correct)**
- C. Scheduled
- D. Instance

Explanation
This is given in the Microsoft documentation as shown below ;Since this is clearly given in the documentation, all other options are incorrect ;For more information on creating web jobs, one can go to the below link ;https://docs.microsoft.com/en-us/azure/app-service/webjobs-create
Question 41: Skipped
Your team is developing Azure Web jobs. You have to decide on the type of Webjobs to be used for different scenarios:
Runs on all instances that the web app runs on. ;
Have the ability to restrict the web job to run on a single instance ;
Supports remote debugging ;
Ability to run based on a schedule ;
Which of the following web job type would you choose for the below requirement?
“Supports remote debugging”

- A. Triggered
- B. Continuous

  (Correct)
- C. Scheduled
- D. Instance

Explanation
This is given in the Microsoft documentation as shown below ;Since this is clearly given in the documentation, all other options are incorrect ;For more information on creating web jobs, one can go to the below link ;https://docs.microsoft.com/en-us/azure/app-service/webjobs-create
Question 42: Skipped
Your team is developing Azure Web jobs. You have to decide on the type of Webjobs to be used for different scenarios:
Runs on all instances that the web app runs on. ;
Have the ability to restrict the web job to run on a single instance ;
Supports remote debugging ;
Ability to run based on a schedule ;
Which of the following web job type would you choose for the below requirement?
“Ability to run based on a schedule”

- A. Triggered

  (Correct)

- B. Continuous

- C. Scheduled

- D. Instance

Explanation

This is given in the Microsoft documentation as shown below ;Since this is clearly given in the documentation, all other options are incorrect ;For more information on creating web jobs, one can go to the below link ;https://docs.microsoft.com/en-us/azure/app-service/webjobs-create

Question 43: Skipped

A company is developing a shopping application for Windows devices. A notification needs to be sent on a user's device whenever a new product is entered into the application. You have to implement push notifications. ;You have to complete the missing parts in the partial code segment given below

Larger image

Which of the following would go into Slot4?

- A. SendWindowsNativeAsync
- B. SendWindowsNativeNotificationAsync

(Correct)

- C. ScheduleNotification

- D. ScheduleNotificationAsync

Explanation
An example of this is given in the Microsoft documentation ;Since this is clearly given in the documentation, all other options are incorrect ;For more information on enterprise push notification architecture, one can go to the below link ;https://docs.microsoft.com/en-us/azure/notification-hubs/notification-hubs-enterprise-push-notification-architecture

Question 44: Skipped

A company is developing an application. The application will maintain data about a customer. The following code snippet is in place for creating a table.

Larger image

```
class Program
    {
        static void Main(string[] args)
        {
            CloudStorageAccount storageAccount = CloudStorageAccount.Parse(conn_string);
            CloudTableClient tableClient = storageAccount.CreateCloudTableClient();

            CloudTable table = tableClient.GetTableReference("Customer");

            table.CreateIfNotExists();
            Console.WriteLine("Table created");
        }
    }
```

If you place the connection string for an Azure Storage account, would the code create a table called “Customer”?

- A. Yes

(Correct)

- B. No

Explanation
Yes, this will work. Below is stated in the Microsoft documentation for creating a table in Azure storage ;For more information on how to use table storage from .Net, one can go to the below link ;https://docs.microsoft.com/en-us/azure/cosmos-db/table-storage-how-to-use-dotnet

Question 45: Skipped

A company is developing an application. The application will maintain data about a customer. The following code snippet is in place for creating a table.

Larger image

```
class Program
    {
        static void Main(string[] args)
        {
            CloudStorageAccount storageAccount = CloudStorageAccount.Parse(conn_string);
            CloudTableClient tableClient = storageAccount.CreateCloudTableClient();

            CloudTable table = tableClient.GetTableReference("Customer");

            table.CreateIfNotExists();
            Console.WriteLine("Table created");
        }
    }
```

If you place the connection string for a CosmosDB account-Table API, would the code create a table called “Customer”?

- A. Yes

(Correct)

- B. No

Explanation
Yes, this will work. The Table API can be used for both Azure Storage and CosmosDB ;For more information on how to use table storage from .Net, one can go to the below link ;https://docs.microsoft.com/en-us/azure/cosmos-db/table-storage-how-to-use-dotnet

Question 46: Skipped

A company is developing an API system that will be hosted behind an Azure API Management service. You have to implement response caching. Here the user ID of the client must be detected and then the response must be cached for the given user ID. ;
You need to add the following policies to the policies file: ;
A set-variable policy to store the detected user identity ;
A cache-lookup-value policy ;
A cache-store-value policy ;
A find-and-replace policy to update the response body with the user profile information ;
To which policy section would you implement the policy for ;
“A set-variable policy to store the detected user identity”

- A. Inbound

  (Correct)

- B. Outbound

- C. Error

- D. Parameters

Explanation
Here since you need to detect the User ID from the request, you need to set the variable in the Input section. An example of this is given in the Microsoft documentation ;Since this is clearly mentioned, all other options are incorrect ;For more information on an example of managing requests with API management, one can go to the below link ;https://docs.microsoft.com/en-us/azure/api-management/api-management-sample-send-request

Question 47: Skipped

A company is developing an API system that will be hosted behind an Azure API Management service. You have to implement response caching. Here the user ID of the client must be detected and then the response must be cached for the given user ID. ;
You need to add the following policies to the policies file: ;
A set-variable policy to store the detected user identity ;
A cache-lookup-value policy ;
A cache-store-value policy ;
A find-and-replace policy to update the response body with the user profile information ;
To which policy section would you implement the policy for ;
“A cache-lookup-value policy”

- A. Inbound

  (Correct)

- B. Outbound

- C. Error

- D. Parameters

Explanation
An example of this is given in the Microsoft documentation as shown below ;Since this is clearly mentioned, all other options are incorrect ;For more information on how to work with the cache in API management, one can go to the below link ;https://docs.microsoft.com/en-us/azure/api-management/api-management-howto-cache

Question 48: Skipped

A company is developing an API system that will be hosted behind an Azure API Management service. You have to implement response caching. Here the user ID of the client must be detected and then the response must be cached for the given user ID. ;
You need to add the following policies to the policies file: ;
A set-variable policy to store the detected user identity ;
A cache-lookup-value policy ;
A cache-store-value policy ;
A find-and-replace policy to update the response body with the user profile information ;
To which policy section would you implement the policy for ;
“A cache-store-value policy”

- A. Inbound

- B. Outbound

  (Correct)

- C. Error

- D. Parameters

Explanation
An example of this is given in the Microsoft documentation as shown below ;Since this is clearly mentioned, all other options are incorrect ;For more information on how to work with the cache in API management, one can go to the below link ;https://docs.microsoft.com/en-us/azure/api-management/api-management-howto-cache

Question 49: Skipped

A company is developing an API system that will be hosted behind an Azure API Management service. You have to implement response caching. Here the user ID of the client must be detected and then the response must be cached for the given user ID. ;
You need to add the following policies to the policies file: ;
A set-variable policy to store the detected user identity ;
A cache-lookup-value policy ;
A cache-store-value policy ;
A find-and-replace policy to update the response body with the user profile information ;
To which policy section would you implement the policy for ;
“A find-and-replace policy to update the response body with the user profile information”

- A. Inbound

  (Correct)

- B. Outbound

- C. Error

- D. Parameters

Explanation
You can again set the variables in the response in the Input section itself. An example of this is given in the Microsoft documentation ;Since this is clearly mentioned, all other options are incorrect ;For more information on an example of managing requests with API management, one can go to the below link ;https://docs.microsoft.com/en-us/azure/api-management/api-management-sample-send-request

Question 50: Skipped

A company is planning on using the Azure Search service. This service will connect to an Azure SQL database containing customer and product data. You have to setup the Index and import the data from the database onto Azure Search. Additionally, from a search perspective, you have to adhere to the following ;
Ability to search the index by using regular expressions. ;

Ability to organize results by counts for name-value pairs ;List products via a particular price range ;
You need to configure the SearchParameters class. ;
Which Property would you configure for the requirement? ;
“Ability to search the index by using regular expressions.”

- A. QueryIndex
- B. OrderBy
- C. SearchMode
- D. queryType

(Correct)

Explanation
For using regular expressions in the search, you should change the QueryType to a Full Lucence search. The Microsoft documentation mentions the following ;Since this is clearly mentioned, all other options are incorrect ;For more information on an overview on search queries, one can go to the below link ;https://docs.microsoft.com/en-us/azure/search/search-query-overview

Question 51: Skipped

A company is planning on using the Azure Search service. This service will connect to an Azure SQL database containing

customer and product data. You have to setup the Index and import the data from the database onto Azure Search. Additionally, from a search perspective, you have to adhere to the following ;
Ability to search the index by using regular expressions. ;
Ability to organize results by counts for name-value pairs ;
List products via a particular price range ;
You need to configure the SearchParameters class. ;
Which Property would you configure for the requirement? ;
“Ability to organize results by counts for name-value pairs”

- A. Facets

  (Correct)

- B. Filters

- C. SearchMode

- D. Query Type

Explanation
You should use facets for grouping results. An example is given in the Microsoft documentation ;Since this is clearly mentioned, all other options are incorrect ;For more information on using facets, one can go to the below link ;https://docs.microsoft.com/en-us/azure/search/search-filters-facets

Question 52: Skipped

A company is planning on using the Azure Search service. This service will connect to an Azure SQL database containing customer and product data. You have to setup the Index and import the data from the database onto Azure Search. Additionally, from a search perspective, you have to adhere to the following ;
Ability to search the index by using regular expressions. ;
Ability to organize results by counts for name-value pairs ;
List products via a particular price range ;
You need to configure the SearchParameters class. ;
Which Property would you configure for the requirement? ;
“List products via a particular price range”

- A. OrderBy
- B. Top
- C. Filter

  (Correct)
- D. Query Type

Explanation
You can use filters to search for selecting specific documents. The Microsoft documentation mentions the following ;Since this is clearly

mentioned, all other options are incorrect ;For more information on using filters, one can go to the below link ;https://docs.microsoft.com/en-us/azure/search/search-filters

Question 53: Skipped

View Case Study ;

- Company
- skillcertlabs is an On-line training provider.
- Current Application:
- The company has 2 applications – "Question-App" and "base-app". The "base-app" application consists of modules that will be used by several other applications.
- The current applications are currently hosted in their on-premise environment
- The application consists of several modules
- Customers can place orders on the site for several training courses using the "Question-App" application
- There are external partners who are also given access to courses and various course documents.
- These applications/modules are currently hosted on Virtual Machines in the on-premise environment
- Requirement:
- The applications along with the modules needs to be moved to Azure
- The application "base-app" will be hosted on a Kubernetes cluster
- The Question-App will be hosted in Azure using the Azure Web Service
- Data:
- The data section of the application currently consists of an Order module
- The Order data is stored as nonrelational JSON
- The data is queried via SQL
- Any change to the Order data must be reflected immediately across all partitions
- All reads to the order data must fetch the most recent writes
- An Order workflow will also be in place using Azure Logic Apps.
- Security:
- skillcertlabs admins must be able to provide access to resources to the external partners

- The external partners must be able to use their own credentials and have the ability to authenticate using their own identity management solution
- Auditing should be in place for the login process for the external partners
- The application settings for “Question-App” must be stored in Azure Key Vault
- Conditional Access policies must be in place for the application
- The application “base-app” must be secured by using an AAD account that has full access to all namespaces of the Azure Kubernetes Service (AKS) cluster.
- Azure Monitor Container Health must be used to monitor the performance of workloads that are deployed to Kubernetes environments
- For the “Question-App” the sign-ins need be secured via the Azure App service and Azure AD Authentication.
- Azure Container Registry will be used to publish images to the AKS environment

You have to deploy a newer version of the “base-app” application to the Kubernetes cluster. Which of the following steps would you need to implement for this requirement? Choose 3 answers from the options given below

- A. Restart the cluster
- B. Create a new alias of the image with the new build number
- C. Build a new application image by using MSBuild
- D. Build a new application image by using dockerFile

(Correct)

- E. Download the image to your local computer

  (Correct)

- F. Log into the registry and push the image

  (Correct)

Explanation
The Microsoft documentation lists the steps to push images from the Azure container service as shown below ;Once you have created and build the application image, you can push it to the Azure container registry. ;Option A is incorrect since the cluster does not need to be restarted for a new image deployment ;Options B and C are incorrect since you need to use dockerFile to build a new image ;For more information on working with the container registry, one can go to the below link ;https://docs.microsoft.com/en-us/azure/container-registry/container-registry-get-started-azure-cli

Question 54: Skipped

A company is developing a web site. They are planning on deploying the web site to Azure. There is a requirement to ensure that the web site remains available when it experiences high volumes of traffic. You need to minimize on cost. Which of the following would you consider from a deployment perspective?

- A. Deploy the website to an App Service that uses the Shared service tier. Configure the App Service plan to automatically scale when the CPU load is high.

- B. Deploy the website to a virtual machine. Configure the virtual machine to automatically scale when the CPU load is high.

- C. Deploy the website to an App Service that uses the Standard service tier. Configure the App Service plan to automatically scale when the CPU load is high.

  (Correct)

- D. Deploy the website to a virtual machine. Configure a Scale Set to increase the virtual machine instance count when the CPU load

Explanation
Web Apps deployed to the Standard App Service Plan have the ability to scale up based on demand. ;Below is the sample implementation snapshots. ;You can add a scale condition and a rule for autoscaling based on a CPU threshold. ; ;Option A is incorrect since the Shared App Service plan does not have the option to scale the application based on demand. ;Option B is incorrect since you need to scale amongst multiple instances ;Option D is incorrect since this would not be cost effective ;For more information on Azure Web App Autoscaling, one can go to the below link ;https://blogs.msdn.microsoft.com/benjaminperkins/2017/07/26/how-to-configure-auto-scaling-for-an-azure-app-service-with-powershell/
Question 55: Skipped

A developer is creating code to implement the Azure batch service. You have to implement the method to submit a job to the Batch service. Which method would you use? ;Shoose 2 Options.

- A. JobOperations.CreateJob()

  (Correct)

- B. CloudJob.Enable(IEnumerable)

- C. CloudJob.CommitAsync(IEnumerable, CancellationToken)

  (Correct)

- D. JobOperations.EnableJob(String, Enumerable)

- E. JobOperations.EnableJobAsync(String. IEnumerable. CancellationToken)

Explanation
commit : ;URL https://docs.microsoft.com/en-us/dotnet/api/microsoft.azure.batch.cloudjob.commit?view=azure-dotnet ;Commits this CloudJob to the Azure Batch service. This is a blocking

operation. ;commitAsync : ;URL https://docs.microsoft.com/en-us/dotnet/api/microsoft.azure.batch.cloudjob.commitasync?view=azure-dotnet ;Commits this CloudJob to the Azure Batch service. The commit operation runs asynchronously. ;This is given as an example in the Microsoft documentation ;Since this is clearly given in the Microsoft documentation, all other options are incorrect ;For more information on an example of using Azure Batch with .Net, one can go to the below link ;https://docs.microsoft.com/en-us/azure/batch/quick-run-dotnet

Question 56: Skipped

A development is deploying a web application to Azure. The Web application uses Azure Active Directory for authentication. There is a requirement to implement multifactor authentication for the application. Which of the following needs to be done to fulfil this requirement? Choose 2 answers from the options given below

- A. In Azure AD, create a new conditional access policy.

  (Correct)

- 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.

  (Correct)

Explanation
The Microsoft documentation mentions the following ;Conditional access policies can be used to ensure that Multi-factor is implemented for users. ;The Microsoft documentation also has a quick start tutorial on how to implement MFA for apps using conditional access policies. ;To use conditional access policies, you need to have Azure AD Premium licensing. ;Option B is incorrect since you need to use conditional access policies and not application proxy ;Option C is incorrect since this does not have the feature for Multi-factor authentication ;Option D is incorrect since the baseline is already in place and only allows MFA for administrators ;For more information on conditional access policies, one can go to the below link ;https://docs.microsoft.com/en-us/azure/active-directory/conditional-access/overview

Question 57: Skipped

A company is setting role definitions for various departments in their IT department. Below are some of the requirements ;
The development teams should be able to communicate with Microsoft support ;
The IT customer center team should be able to view Azure resources and create support tickets ;
Custom role definitions need to be in place for the various requirements based on existing role definitions. ;
Which of the following powershell command would you use to create the custom role?

- A. Get-AzRoleDefinition -Name "Reader" | ConvertTo-Json Out-File C:\Sample.json

  (Correct)

- B. Set-AzRoleDefinition -Name "Reader" I ConvertTo-Json Out-File C:\Sample.json

- C. Update-AzRoleDefinition -Name "Reader" I ConvertTo-Json Out-File C:\Sample.json

- D. Update-AzRoleDefinition -Name "Reader"

Explanation
First you have to get an existing role definition using the Get-AzRoleDefinition command. An example from the Microsoft documentation is given below ;Since this is clearly shown in the documentation, all other options are incorrect ;For more information on creating custom roles, one can go to the below link ;https://docs.microsoft.com/en-us/azure/role-based-access-control/custom-roles-powershell

Question 58: Skipped

A company is setting role definitions for various departments in their IT department. Below are some of the requirements ;
The development teams should be able to communicate with Microsoft support ;
The IT customer center team should be able to view Azure resources and create support tickets ;
Custom role definitions need to be in place for the various requirements based on existing role definitions. ;
Which of the following action would be applicable to allow a team to contact Microsoft support?

- A. "*/read.Microsoft.support"
- B. "*"
- C. “Microsoft.Support/*”

  (Correct)
- D. “/*/Microsoft.Support/*”

Explanation
If you look at the built-in role and see an example for actions to allow support to raise Microsoft support tickets, you can see the required action ;Since this is clearly shown in the documentation, all other options are incorrect ;For more information on the built-in roles, one can go to the below link ;https://docs.microsoft.com/en-us/azure/role-based-access-control/built-in-roles

Question 59: Skipped

A team is developing an ASP.NET Core application. The Application needs to log information onto Application Insights. You have to enable logging. You also have to ensure that log messages can be correlated to events tracked by Application Insights. ;
Partial code snippets are given below. You have to complete the missing slots for the code. ;
Larger image

Which of the following would go into Slot1?

- A. IncludeEventId
- B. ServerFeatures
- C. LoggerFilterOptions
- D. ApplicationServices
- E. ApplicationInsightsLoggerOptions

(Correct)

- F. TrackExceptionsAsExceptionTelemetry

Explanation
This is given as an example in a github article ;Since the implementation is clearly given, all other options are incorrect ;For more information on logging in ASP.Net Core, one can go to the below link ;https://github.com/Microsoft/ApplicationInsights-aspnetcore/wiki/Logging

Question 60: Skipped

A team is developing an ASP.NET Core application. The Application needs to log information onto Application Insights. You have to enable logging. You also have to ensure that log messages can be correlated to events tracked by Application Insights. ;
Partial code snippets are given below. You have to complete the missing slots for the code. ;

Larger image

Which of the following would go into Slot2?

- A. IncludeEventId

(Correct)

- B. ServerFeatures
- C. LoggerFilterOptions
- D. ApplicationServices
- E. ApplicationInsightsLoggerOptions
- F. TrackExceptionsAsExceptionTelemetry

Explanation
This is given as an example in a github article ;Since the implementation is clearly given, all other options are incorrect ;For more information on logging in ASP.Net Core, one can go to the below link ;https://github.com/Microsoft/ApplicationInsights-aspnetcore/wiki/Logging
Question 61: Skipped
A team is developing an ASP.NET Core application. The Application needs to log information onto Application Insights. You have to

enable logging. You also have to ensure that log messages can be correlated to events tracked by Application Insights. ;
Partial code snippets are given below. You have to complete the missing slots for the code. ;
Larger image

Which of the following would go into Slot3?

- A. app.IncludeEventId
- B. app.ServerFeatures
- C. app.LoggerFilterOptions
- D. app.ApplicationServices

(Correct)

- E. app.ApplicationInsightsLoggerOptions

- F. app.TrackExceptionsAsExceptionTelemetry

Explanation
This is given as an example in a github article ;Since the implementation is clearly given, all other options are incorrect ;For more information on logging in ASP.Net Core, one can go to the below link ;https://github.com/Microsoft/ApplicationInsights-aspnetcore/wiki/Logging
Question 62: Skipped
Your team has developed an application API based on the OpenAPI specification. You have to ensure that the API can be accessed via an Azure API management service instance. Which of the following Azure PowerShell command would you run to create an API management service?

- A. Import-AzApiManagementApi -Context $skillcertlabsApiMgmtContext -SpecificationFormat "Swagger" -SpecificationPath $skillcertlabsSwaggerPath -Path $skillcertlabsPath

- B. New-AzApiManagementBackend -Context $skillcertlabsApiMgmtContext -Url $skillcertlabsurl -Protocol http

- C. New-AzApiManagement -ResourceGroupName $skillcertlabs-rg -Name $skillcertlabsname -Location $Location -Organization "skillcertlabs" -AdminEmail $skillcertlabsadmin

  (Correct)

- D. New-AzApiManagementBackendProxy -Url $skillcertlabsurl

Explanation
First you need to create a new API management instance as shown below ;Option A is incorrect since this is used to import an Azure API Management API from a file or a URL in Web Application Description Language (WADL), Web Services Description Language (WSDL), or Swagger format ;Option B is incorrect since this is used to create a new backend for the API ;Option D is incorrect since this is used is just used to create a new backend proxy ;For more information on creating an API Instance, one can go to the below link ;https://docs.microsoft.com/en-us/azure/api-management/powershell-create-service-instance
Question 63: Skipped
A company is developing an application. The application will be storing data about game scores for players. A class called PlayerScore is in place in the code as a Table Entity. The table is populated with thousands of records.
You need to design code that will retrieve 10 records where the score exceeds 4000.
The following snippets of code have been put in place
Larger image

```
class PlayerScore : TableEntity
    {
        public PlayerScore()
            {
            }
        public PlayerScore(string p_GameID,string p_PlayerID,int p_score,long p_timeplayed)
        {
            this.PartitionKey = p_GameID;
            this.RowKey = p_PlayerID;
            this.score = p_score;
            this.Timeplayed = p_timeplayed;
        }
        public int score { get; set; }
        public long Timeplayed { get; set; }
    }
```

Larger image

```
private static void Query()
        {
            CloudStorageAccount whizlabs_storage = CloudStorageAccount.Parse(conn_string);
            CloudTableClient whizlabs_table_client = whizlabs_storage.CreateCloudTableClient();
            CloudTable whizlabs_table = whizlabs_table_client.GetTableReference("Player");

            TableQuery<DynamicTableEntity> query = new TableQuery<DynamicTableEntity>().Select
            (new string[] { "score" }).Where(TableQuery.GenerateFilterConditionForInt("score",
            QueryComparisons.GreaterThanOrEqual, 4000)).Take(10);
            EntityResolver<KeyValuePair<string, int?>> resolver = (partitionKey, rowKey, ts, props, etag)
    => new KeyValuePair<string, int?>(rowKey, props["score"].Int32Value);

            foreach (var scoreItem in whizlabs_table.ExecuteQuery(query, resolver, null, null))
            {
                Console.WriteLine(scoreItem.Key);
                Console.WriteLine(scoreItem.Value);
            }

        }
```

Does the code query the Azure Table and retrieve the TimePlayed property from the table?

- A. Yes

- B. No

(Correct)

Explanation

No, since the Select part is in place, this will only select the score property. ;For more information on table operations in .Net, one can go to the below link ;https://docs.microsoft.com/en-us/azure/cosmos-db/table-storage-how-to-use-dotnet

Question 64: Skipped

A company is developing an application. The application will be storing data about game scores for players. A class called PlayerScore is in place in the code as a Table Entity. The table is populated with thousands of records.

You need to design code that will retrieve 10 records where the score exceeds 4000.

The following snippets of code have been put in place ;

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    {
        public PlayerScore()
            {
            }
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            this.PartitionKey = p_GameID;
            this.RowKey = p_PlayerID;
            this.score = p_score;
            this.Timeplayed = p_timeplayed;
        }
        public int score { get; set; }
        public long Timeplayed { get; set; }
    }
```

Larger image

```
private static void Query()
       {
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           EntityResolver<KeyValuePair<string, int?>> resolver = (partitionKey, rowKey, ts, props, etag)
   => new KeyValuePair<string, int?>(rowKey, props["score"].Int32Value);

           foreach (var scoreItem in whizlabs_table.ExecuteQuery(query, resolver, null, null))
           {
               Console.WriteLine(scoreItem.Key);
               Console.WriteLine(scoreItem.Value);
           }

       }
```

Does the code return a maximum of ten records?

- A. Yes

  (Correct)

- B. No

Explanation
Yes, because of the Take condition which limits the rows, the number of records will be limited to 10. ;For more information on table operations in .Net, one can go to the below link ;https://docs.microsoft.com/en-us/azure/cosmos-db/table-storage-how-to-use-dotnet

Question 65: Skipped

A company is developing an application. The application will be storing data about game scores for players. A class called PlayerScore is in place in the code as a Table Entity. The table is populated with thousands of records.
You need to design code that will retrieve 10 records where the score exceeds 4000.
The following snippets of code have been put in place

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```
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    {
        public PlayerScore()
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            }
        public PlayerScore(string p_GameID,string p_PlayerID,int p_score,long p_timeplayed)
        {
            this.PartitionKey = p_GameID;
            this.RowKey = p_PlayerID;
            this.score = p_score;
            this.Timeplayed = p_timeplayed;
        }
        public int score { get; set; }
        public long Timeplayed { get; set; }
    }
```

Larger image

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            CloudTable whizlabs_table = whizlabs_table_client.GetTableReference("Player");

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            EntityResolver<KeyValuePair<string, int?>> resolver = (partitionKey, rowKey, ts, props, etag)
    => new KeyValuePair<string, int?>(rowKey, props["score"].Int32Value);

            foreach (var scoreItem in whizlabs_table.ExecuteQuery(query, resolver, null, null))
            {
                Console.WriteLine(scoreItem.Key);
                Console.WriteLine(scoreItem.Value);
            }

        }
```

Does the code return all records to the client? The client will then display the records where the score is greater than 4000?

- A. Yes

  (Correct)

- B. No

Explanation

Here since the query is performed on a property that is not related to the Partition Key, all the rows from the table will be fetched. The Microsoft documentation mentions the following ;For more information on designing table storage, one can go to the below link ;https://docs.microsoft.com/en-us/azure/storage/tables/table-storage-design-for-query

Question 66: Skipped

View Case Study ;

- **Company**
- **skillcertlabs is an IT Consulting company.**
- **Application**

-
- The company has developed a series of applications and services.
- The Application and services are developed in ASP.Net Core.
- An application called “skillcertlabsPolicyService” is deployed to Azure Web App Service.
- The “skillcertlabsPolicyService” application needs to react to events from Azure Event Grid and perform required actions
- The “skillcertlabsPolicyService” application must include the Event Grid Event ID field in all Application Insights telemetry.
- The “skillcertlabsPolicyService” application must process all sign-in and sign-out events. The sign-out process must be processed as soon as possible.
- All applications must write logs to BLOB storage and logs must remain there for 15 days.
- A shared library named skillcertlabsLib contains all common functionality for the ASP.NET Core web services and application.
- The company has an anomaly detection service that analyses all log information for anomalies.
- The anomaly detection service is implemented as a Machine Learning Model.
- If an anomaly is detected, an Azure Function that emails administrators is called by using an HTTP WebHook.

Code snippets for various code modules are displayed below

EventGridController.cs

Larger image

```
public class EventGridController : Controller
{
    public static AsyncLocal<string> EventId = new AsyncLocal<string>();
    public IActionResult Process([FromBody]) string eventsJson
    {
        var events =JArray.Parse(eventsJson);
        foreach (var @event in events)
        {
            EventId.Value=@event["id"].ToString();
            if(@event["topic"].ToString().Contains("providers/Microsoft.Storage"))
            {
                sendToDetectionService(@event["data"]["url"].ToString());
            }
            {
                LogService(@event["subject"] ToString());
            }
       }
       return null;
       }
```

Larger image

```
private async Task SendToAnomalyService(string uri)
{
    var content =GetLogData(uri);
    var whizlabs_scoreRequest=new
    {
    whizlabs_input=new Dictionary<string , List<IDictionary<string,string>>>()
    {
    {
        "input1",
        new List<Dictionary<string, string>>()
            {
                new Dictionary<string,string>()
            {
                "logcontent",content
            }}}},
                GlobalParameters=new Dictionary<string,string>(){}
  };
```

Objective - Connect to and Consume Azure Services and Third-party Services
You have to ensure that all sign-in and sign-out events can be processed by the EventGridController. ;
You propose the following solution ;
“Create separate Azure Event Grid topics and subscriptions for sign-in and sign-out events.” ;
Does this solution meet the requirement?

- A. Yes

  (Correct)

- B. No

Explanation

Yes, you can create topics for both the sign in and sign out events. ;For more information on posting to a custom topic, one can go to the below link ;https://docs.microsoft.com/en-us/azure/event-grid/post-to-custom-topic

Question 67: Skipped

View Case Study ;

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- A shared library named skillcertlabsLib contains all common functionality for the ASP.NET Core web services and application.

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                LogService(@event["subject"] ToString());
            }
       }
       return null;
       }
```

Larger image

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private async Task SendToAnomalyService(string uri)
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                GlobalParameters=new Dictionary<string,string>(){}
  };
```

Objective - Connect to and Consume Azure Services and Third-party Services
You have to ensure that all sign-in and sign-out events can be processed by the EventGridController. ;
You propose the following solution ;
“Create a new Azure Event Grid subscription for all authentication that delivers messages to an Azure Event Hub. Use the subscription to process sign-out events” ;
Does this solution meet the requirement?

- A. Yes

- B. No

(Correct)

Explanation

The Azure Event Hub is normally used as a data ingestion service ;For more information on Event Hubs, one can go to the below link ;https://docs.microsoft.com/en-us/azure/event-hubs/event-hubs-about

Question 68: Skipped

View Case Study ;

- Company
-
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            {
                "logcontent",content
            }}}},
                GlobalParameters=new Dictionary<string,string>(){}
  };
```

Objective - Connect to and Consume Azure Services and Third-party Services
You have to ensure that all sign-in and sign-out events can be processed by the EventGridController.
You propose the following solution ;
“Create a new Azure Event Grid topic and add a subscription for the events.”
Does this solution meet the requirement?

- A. Yes
- B. No

(Correct)

Explanation
It is better to create separate topics. Since the sign-outs need to be processed immediately, you should create a separate topic for the sign in a separate topic for the sign-out process. ;For more information on posting to a custom topic, one can go to the below link ;https://docs.microsoft.com/en-us/azure/event-grid/post-to-custom-topic

Question 69: Skipped

View Case Study ;

- **Company**
- **skillcertlabs is an IT Consulting company.**
- **Application**
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- **The “skillcertlabsPolicyService” application must process all sign-in and sign-out events. The sign-out process must be processed as soon as possible.**
- **All applications must write logs to BLOB storage and logs must remain there for 15 days.**

- A shared library named skillcertlabsLib contains all common functionality for the ASP.NET Core web services and application.
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                LogService(@event["subject"] ToString());
            }
       }
       return null;
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Larger image

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    whizlabs_input=new Dictionary<string , List<IDictionary<string,string>>>()
    {
    {
        "input1",
        new List<Dictionary<string, string>>()
            {
                new Dictionary<string,string>()
            {
                "logcontent",content
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                GlobalParameters=new Dictionary<string,string>(){}
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```
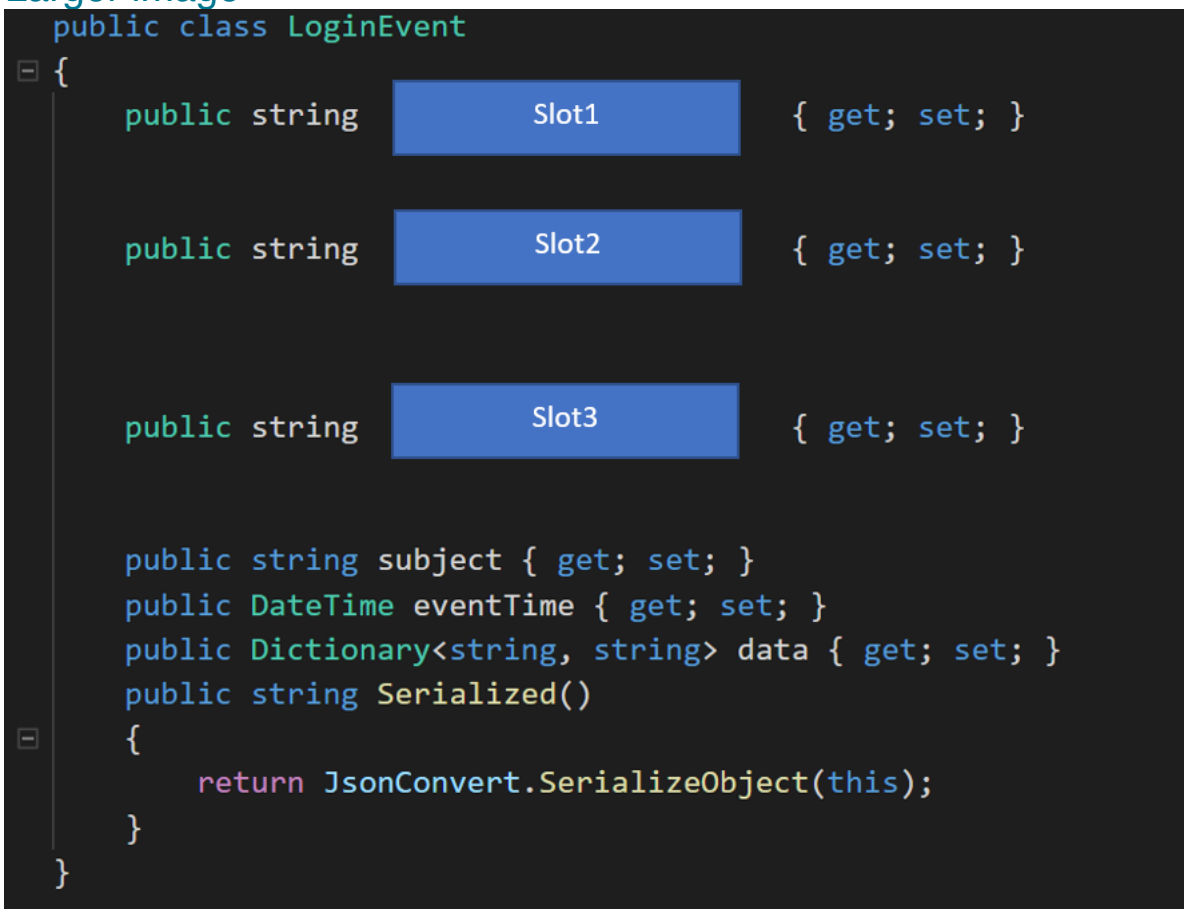

Objective - Connect to and Consume Azure Services and Third-party Services

You are designing the class that will be used to parse the Event Data from the Event Grid. You have to complete the below class segment ;

Larger image



Which of the following will go into Slot1?

- A. id

  (Correct)

- B. eventType

- C. topic

- D. metadataVersion

Explanation
Since the EventGridController.cs file refers to the id and topic value, we need to ensure these are in place in the class definition for the object ;The Microsoft documentation below specifies the Event Schema for the Event Grid ;For more information on the Event Grid schema, one can go to the below link ;https://docs.microsoft.com/en-us/azure/event-grid/event-schema

Question 70: Skipped

View Case Study ;

- **Company**
- **skillcertlabs is an IT Consulting company.**
- **Application**

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- The Application and services are developed in ASP.Net Core.
- An application called “skillcertlabsPolicyService” is deployed to Azure Web App Service.
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            {
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                LogService(@event["subject"] ToString());
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Objective - Connect to and Consume Azure Services and Third-party Services

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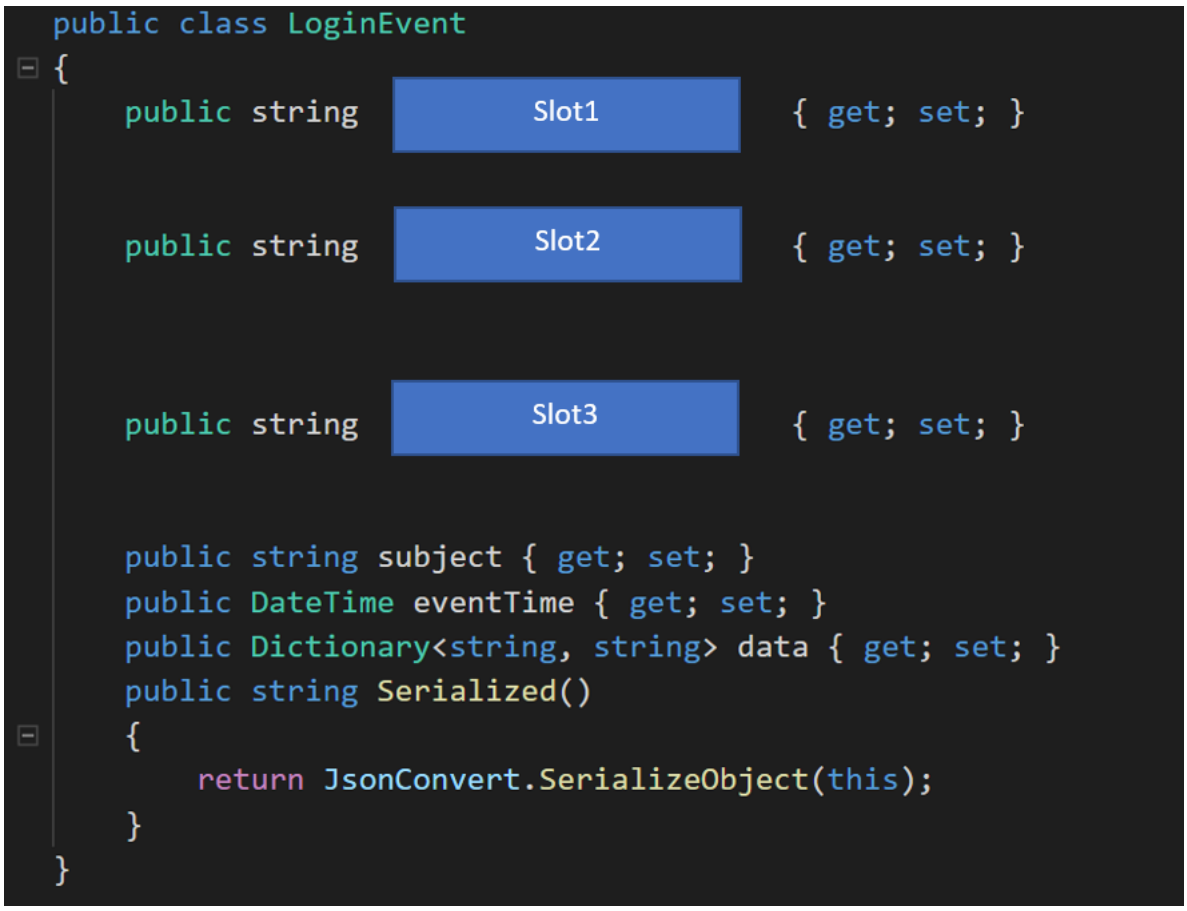

Which of the following will go into Slot2?

- A. id
- B. eventType
- C. topic

(Correct)

- D. metadataVersion

Explanation
Since the EventGridController.cs file refers to the id and topic value, we need to ensure these are in place in the class definition for the object ;The Microsoft documentation below specifies the Event Schema for the Event Grid ;For more information on the Event Grid schema, one can go to the below link ;https://docs.microsoft.com/en-us/azure/event-grid/event-schema

Question 71: Skipped

View Case Study ;

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- Application
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Objective - Connect to and Consume Azure Services and Third-party Services

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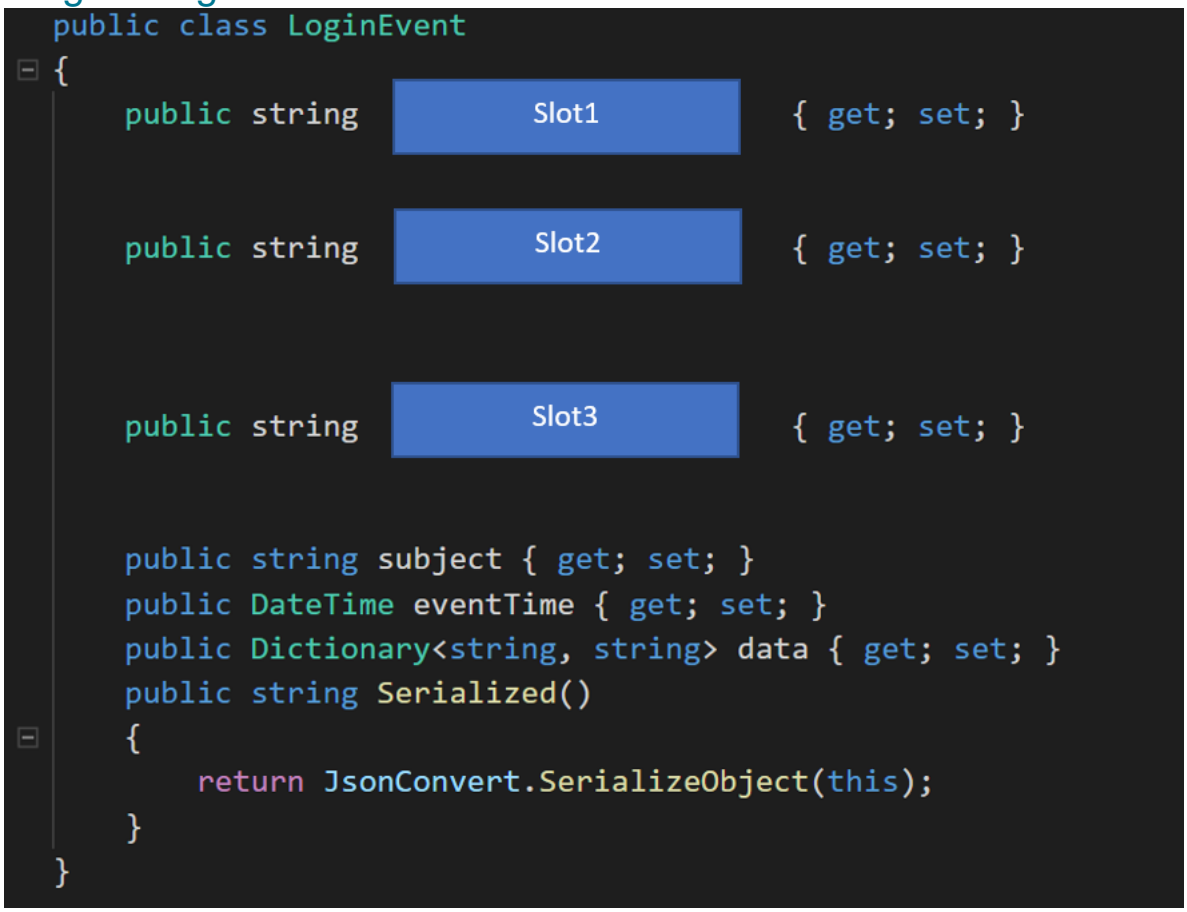

Which of the following will go into Slot3?

- A. id
- B. eventType

  (Correct)
- C. topic

- D. metadataVersion

Explanation
We also need to have the eventType in place. ;The Microsoft documentation below specifies the Event Schema for the Event Grid ;For more information on the Event Grid schema, one can go to the below link ;https://docs.microsoft.com/en-us/azure/event-grid/event-schema

Question 72: Skipped

View Case Study ;

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  };
```

Objective - Connect to and Consume Azure Services and Third-party Services

Users report that anomaly detection emails can sometimes arrive several minutes after an anomaly is detected. How can you resolve this issue?

- 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.

(Correct)

Explanation
Here the issue is that the Azure Web app is being stopped when it is not being used. For this you have to ensure the AlwaysOn setting for the Web App is implemented as True as shown below ;The Microsoft documentation mentions the following on the setting. ;Options A and C are incorrect since this is not an issue with the Azure Function, but with the Web App ;Option B is incorrect since the setting should be True ;For more information on Azure Web App settings, one can go to the below link ;https://docs.microsoft.com/en-us/azure/app-service/web-sites-configure

Question 73: Skipped

View Case Study ;

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-
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Objective - Connect to and Consume Azure Services and Third-party Services
The “skillcertlabsPolicyService” application must be able to scale on demand. Which Azure Application Insights data model should you use?

- A. An Application Insights metric

(Correct)

- B. An Application Insights dependency

- C. An Application Insights trace

- D. An Application Insights event

Explanation
You can use Application Insights metrics to scale Web Apps. The Microsoft documentation gives an example on this where the metrics source is Application Insgihts. ;Since this is clearly mentioned in the Microsoft documentation, all other options are incorrect ;For more information on autoscaling based on a custom metric, one can go to the below link ;https://docs.microsoft.com/en-us/azure/azure-monitor/platform/autoscale-custom-metric

Question 74: Skipped

View Case Study ;

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```

Objective - Connect to and Consume Azure Services and Third-party Services

There is a plan to use Azure Redis Cache to improve the performance of the “skillcertlabsPolicyService” application. Which of the following would you store in Azure Redis Cache?

- A. HttpContext.Items
- B. ViewState
- C. Session state

(Correct)

- D. TempData

Explanation
You would ideally store the session state in Azure Redis. The Microsoft documentation mentions the following as one of the patterns or use cases for using Azure Redis. ;For more information on Azure Redis, one can go to the below link ;https://docs.microsoft.com/en-us/azure/azure-cache-for-redis/cache-overview

Question 75: Skipped

A company maintains an existing Azure SQL Database. Keys which can be used to encrypt the database is stored in the Azure Key Vault. The database contains the following columns ;
FirstName ;
LastName ;
Age ;
SSN ;
An external consulting firm has been given the responsibility to manage the database. But you have to ensure that the external party does not have the ability to access the data in the SSN column of the table ;
You decide on using the following protection method ;
"Enable AlwaysOn encryption" ;
Would this protection method fulfil the requirement?

- A. Yes

  (Correct)

- B. No

Explanation
A similar example of this is given in the Microsoft documentation as shown below. So, you should ensure AlwaysOn Encryption for this requirement ;For more information on AlwaysOn Encryption for Azure SQL Database, please go ahead and visit the below URL ;https://docs.microsoft.com/en-us/azure/sql-database/sql-database-always-encrypted-azure-key-vault

Question 76: Skipped

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FirstName ;
LastName ;
Age ;
SSN ;
An external consulting firm has been given the responsibility to manage the database. But you have to ensure that the external party does not have the ability to access the data in the SSN column of the table ;
You decide on using the following protection method ;
"Set the column encryption setting as disabled" ;
Would this protection method fulfil the requirement?

- A. Yes
- B. No **(Correct)**

Explanation
You have to setup AlwaysOn Encryption. This is how you can protect certain columns in the Azure SQL Database ;For more information on AlwaysOn Encryption for Azure SQL Database, please go ahead and

visit the below URL ;https://docs.microsoft.com/en-us/azure/sql-database/sql-database-always-encrypted-azure-key-vault

Question 77: Skipped

A company maintains an existing Azure SQL Database. Keys which can be used to encrypt the database is stored in the Azure Key Vault. The database contains the following columns ;
FirstName ;
LastName ;
Age ;
SSN ;
An external consulting firm has been given the responsibility to manage the database. But you have to ensure that the external party does not have the ability to access the data in the SSN column of the table ;
You decide on using the following protection method ;
"Assign users to the Public fixed database role" ;
Would this protection method fulfil the requirement?

- A. Yes
- B. No

(Correct)

Explanation

Roles are more from a permission level aspect from the entire database perspective and not from a column to column perspective ;For more information on security for SQL databases, please go ahead and visit the below URL ;https://docs.microsoft.com/en-us/sql/relational-databases/security/authentication-access/getting-started-with-database-engine-permissions?view=sql-server-2017

Question 78: Skipped

A company maintains an existing Azure SQL Database. Keys which can be used to encrypt the database is stored in the Azure Key Vault. The database contains the following columns ;
FirstName ;
LastName ;
Age ;
SSN ;
An external consulting firm has been given the responsibility to manage the database. But you have to ensure that the external party does not have the ability to access the data in the SSN column of the table ;
You decide on using the following protection method ;
"Store column encryption keys in the system catalogue view of the database" ;
Would this protection method fulfil the requirement?

- A. Yes

- B. No

(Correct)

Explanation
The keys should always be stored in the Azure Key vault from a security perspective and should not be stored in the database itself. ;The Microsoft documentation mentions the following ;For more information on AlwaysOn Encryption for Azure SQL Database, please go ahead and visit the below URL ;https://docs.microsoft.com/en-us/azure/sql-database/sql-database-always-encrypted-azure-key-vault
Question 79: Skipped
A development team is developing an application that needs to be deployed to an Azure Virtual Machine. It needs to be ensured that the underlying disk is encrypted using a Key from the Azure Key Vault service. Which of the following powershell cmdlets would you

execute for this requirement? Choose 3 answers from the options given below

- A. New-AzVM

  (Correct)

- B. New-AzVmDiskEncryption

- C. Set-AzVmDiskEncryptionExtension

  (Correct)

- D. Set-AzVM

- E. Get-AzKeyVault

  (Correct)

Explanation
First ensure that the Virtual Machine is in place. ;Also ensure that you have an Azure Key vault already in place. ;And then finally use the Set-AzVmDiskEncryptionExtension to enable encryption on the disk ;An example of this is given in the Microsoft documentation ;Option B is

invalid since this is not a valid cmdlet ;Option D is invalid since this is used to set a VM as generalized ;For more information on encrypting a VM, please go ahead and visit the below URL ;https://docs.microsoft.com/en-us/azure/security/quick-encrypt-vm-powershell

Question 80: Skipped

A consultant needs to deploy Web Applications to the Azure Web App service for 4 customers. Each customer needs to have the application running on a separate individual instance. The following key requirements are also in place ;
Ability to automatically scale on demand ;
Ability to use deployment slots to test staging environments ;
All Azure resources should be located in a separate isolated network ;
Costs need to be minimized ;
Which of the following would you choose for the App Service Plan?

- A. Basic
- B. Standard
- C. Premium
- D. Isolated

(Correct)

Explanation
Here the defining requirement is to ensure that Azure resources are located in a separate environment, and for that we need to use the Isolated App Service Plan ;The Microsoft documentation mentions the following ;The Isolated App Service plan supports Auto Scaling and Deployment slots ;Since this is the only viable option, all other options are incorrect ;For more information on App Service Plans, please go ahead and visit the below URL ;https://azure.microsoft.com/en-us/pricing/details/app-service/plans/

Question 81: Skipped

A consultant needs to deploy Web Applications to the Azure Web App service for 4 customers. Each customer needs to have the application running on a separate individual instance. The following key requirements are also in place ;
Ability to automatically scale on demand ;
Ability to use deployment slots to test staging environments ;
All Azure resources should be located in a separate isolated network ;
Costs need to be minimized ;
How many instances would you keep running for the requirement?

- A. 4

  (Correct)

- B. 8

- C. 12

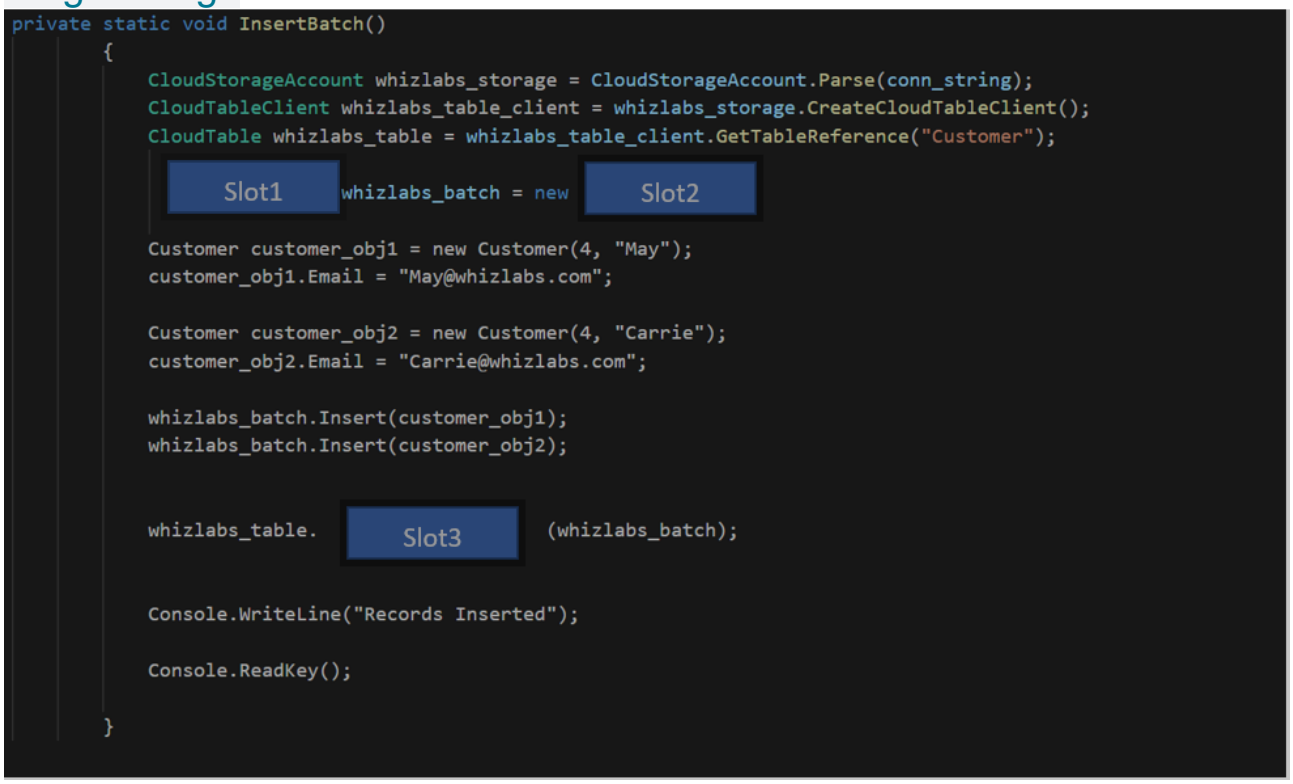
- D. 16

Explanation
Since each we need to ensure each customer's Web app is running on a separate instance and since we also need to cut down on costs , we should limit the number of instances to 4. ;Since this is the only viable option, all other options are incorrect ;For more information on App Service Plans, please go ahead and visit the below URL ;https://azure.microsoft.com/en-us/pricing/details/app-service/plans/

Question 82: Skipped

A development team is developing an application. The application will be storing its data in Azure Table storage. Below are the fields that are going to be stored in the table ;
Region ;
Email address ;
Phone number ;
The following snippet of code needs to be completed that would be used to insert a batch of records.

Larger image



Which of the following will go into Slot1?

- A. TableOperation
- B. TableBatchOperation

  (Correct)
- C. TableEntity
- D. TableQuery

Explanation
Since this is a batch operation, we have to use the TableBatchOperation Type. An example is also given in the Microsoft documentation ;Since this is clearly given in the Microsoft documentation, all other options are incorrect ;For more information on using table storage with .Net, one can go to the below link ;https://docs.microsoft.com/en-us/azure/cosmos-db/table-storage-how-to-use-dotnet

Question 83: Skipped

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The following snippet of code needs to be completed that would be used to insert a batch of records.

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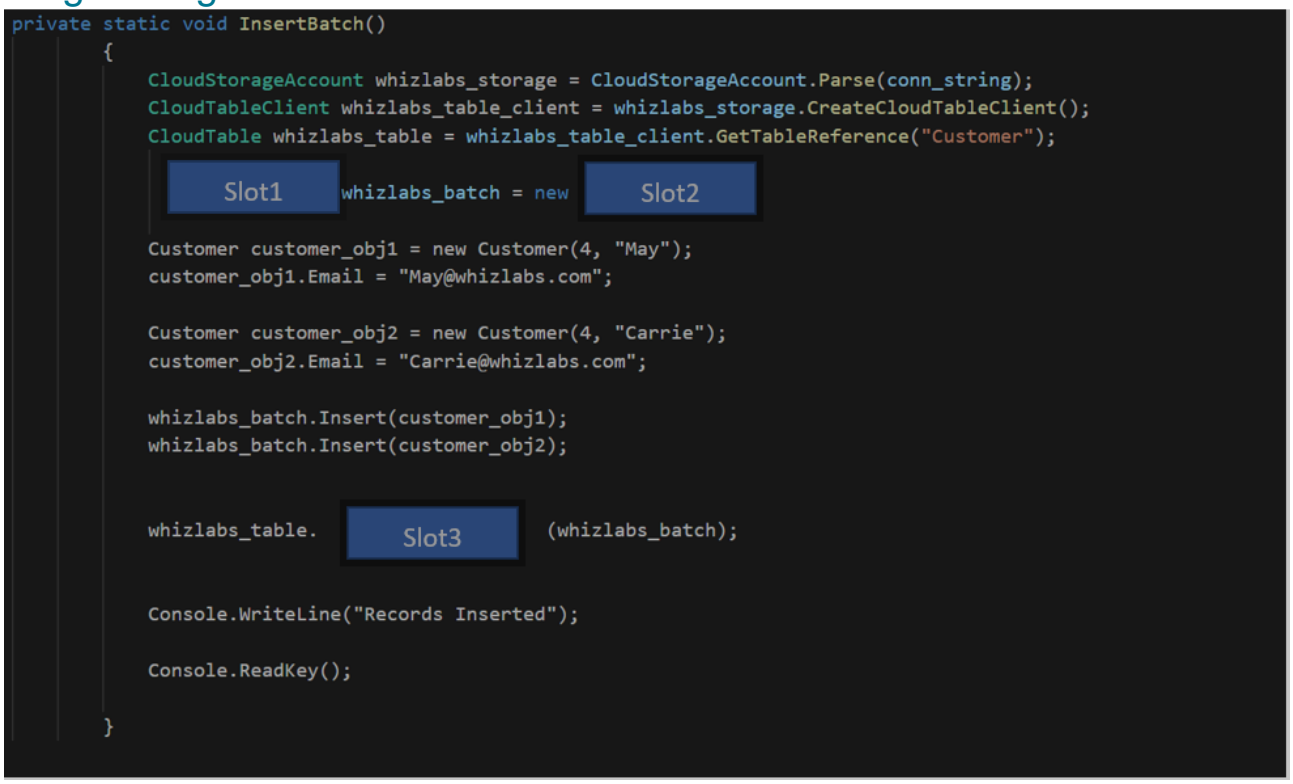

Which of the following will go into Slot2?

- A. TableOperation
- B. TableBatchOperation

  (Correct)
- C. TableEntity

- D. TableQuery

Explanation
Since this is a batch operation, we have to use the TableBatchOperation Type. An example is also given in the Microsoft documentation ;Since this is clearly given in the Microsoft documentation, all other options are incorrect ;For more information on using table storage with .Net, one can go to the below link ;https://docs.microsoft.com/en-us/azure/cosmos-db/table-storage-how-to-use-dotnet

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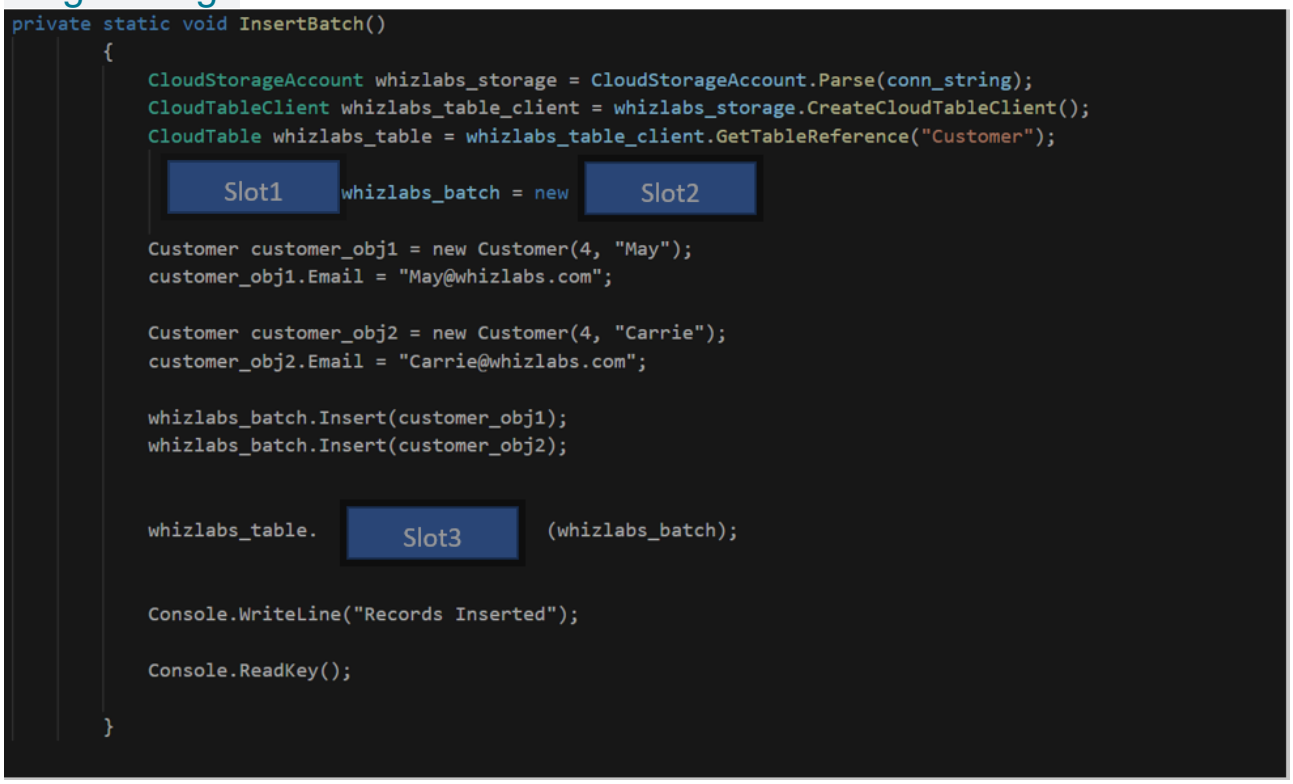

Which of the following will go into Slot3?

- A. ExecuteBatch

  (Correct)

- B. Execute

- C. Insert

- D. InsertOrMerge

Explanation
We have to use the ExecuteBatch method to Execute the Insertion of the Batch of records. An example is also given in the Microsoft documentation ;Since this is clearly given in the Microsoft documentation, all other options are incorrect ;For more information on using table storage with .Net, one can go to the below link ;https://docs.microsoft.com/en-us/azure/cosmos-db/table-storage-how-to-use-dotnet

Question 85: Skipped

A development team is preparing code that will work with the Azure Batch service. The code will be used to process videos and store them in a container in an Azure storage account. You need to ensure that the code will be able to store the processed videos from the Batch jobs to the storage container. You need to ensure code is in place to prepare the storage for the output videos. ;You

propose code to get the storage account access keys and submit them to the batch job ;Would this solution fulfil the requirements?

- A. Yes

- B. No

(Correct)

Explanation
You should not use access keys, but instead you have to ensure that there is a shared access signature in place for the storage container. This is also mentioned in the Microsoft documentation. ;For more information on persisting output files, one can go to the below link ;https://docs.microsoft.com/en-us/azure/batch/batch-task-output-files

Question 86: Skipped

A development team is preparing code that will work with the Azure Batch service. The code will be used to process videos and store them in a container in an Azure storage account. You need to ensure that the code will be able to store the processed videos from the Batch jobs to the storage container. You need to ensure code is in place to prepare the storage for the output videos. ;You propose code to generate a shared access signature for the storage container. ;Would this solution fulfil the requirements?

- A. Yes

(Correct)

- B. No

Explanation
Yes, you need to generate a shared access signature. This is also mentioned in the Microsoft documentation. ;For more information on persisting output files, one can go to the below link ;https://docs.microsoft.com/en-us/azure/batch/batch-task-output-files
Question 87: Skipped
A development team is preparing code that will work with the Azure Batch service. The code will be used to process videos and store them in a container in an Azure storage account. You need to ensure that the code will be able to store the processed videos from the Batch jobs to the storage container. You need to ensure code is in place to prepare the storage for the output videos. ;You propose code to generate a CORS signature for the storage container. ;Would this solution fulfil the requirements?

- A. Yes

- B. No

(Correct)

Explanation
You should not use CORS, but instead you have to ensure that there is a shared access signature in place for the storage container. This is also mentioned in the Microsoft documentation. ;For more information on persisting output files, one can go to the below link ;https://docs.microsoft.com/en-us/azure/batch/batch-task-output-files
Question 88: Skipped
A company is implementing an order processing system. The orders are going to be published to an Azure Service Bus topic. The properties of the messages that would be sent are as follows ;

Larger image

Property	Description
Location	The region of the shipment
CorrelationId	Used as the priority value for the order
Quantity	User defined property that defines the order quantity
Audited	User defined property that defines the order date

The following subscriptions will be created. The requirement for each subscription is also given ;

Larger image

Property	Description
LaterOrders	This subscription will be used in the future and should not accept any orders at the moment
HighPriorityOrders	Here all the high priority orders should be sent
GlobalOrders	Here the order where the region is not USA should be sent
HighOrders	Orders where the quantity is greater than 1000 should be sent
AllOrders	For auditing purposes, all orders should be sent here

You need to implement the right filters for each of the subscriptions given above.

Which of the following would you implement for the Subscription – LaterOrders?

- A. SqlFilter
- B. CorrelationFilter
- C. TrueFilter
-

D. No Filter

-

E. FalseFilter

(Correct)

Explanation

You can use the FalseFilter so that no messages come up in the subscription as per the requirement. ;The Microsoft documentation mentions the following with regards to the filter ;Since this is the ideal filter to use, all other options are invalid ;For more information on topic filters, one can go to the below link ;https://docs.microsoft.com/en-us/azure/service-bus-messaging/topic-filters

Question 89: Skipped

A company is implementing an order processing system. The orders are going to be published to an Azure Service Bus topic. The properties of the messages that would be sent are as follows ;

Larger image

Property	Description
Location	The region of the shipment
CorrelationId	Used as the priority value for the order
Quantity	User defined property that defines the order quantity
Audited	User defined property that defines the order date

The following subscriptions will be created. The requirement for each subscription is also given ;

Larger image

Property	Description
LaterOrders	This subscription will be used in the future and should not accept any orders at the moment
HighPriorityOrders	Here all the high priority orders should be sent
GlobalOrders	Here the order where the region is not USA should be sent
HighOrders	Orders where the quantity is greater than 1000 should be sent
AllOrders	For auditing purposes, all orders should be sent here

You need to implement the right filters for each of the subscriptions given above.

Which of the following would you implement for the Subscription – HighPriorityOrders?

- A. SqlFilter
- B. CorrelationFilter

  (Correct)
- C. TrueFilter
- D. No Filter
- E. FalseFilter

Explanation
Since the priority is based on the CorrelationId , it is better to use the CorrelationFilter. The Microsoft documentation mentions the following with regards to the filter ;Since this is the ideal filter to use, all other options are invalid ;For more information on topic filters, one can go to the below link ;https://docs.microsoft.com/en-us/azure/service-bus-messaging/topic-filters

Question 90: Skipped

A company is implementing an order processing system. The orders are going to be published to an Azure Service Bus topic. The properties of the messages that would be sent are as follows ;

Larger image

Property	Description
Location	The region of the shipment
CorrelationId	Used as the priority value for the order
Quantity	User defined property that defines the order quantity
Audited	User defined property that defines the order date

The following subscriptions will be created. The requirement for each subscription is also given ;

Larger image

Property	Description
LaterOrders	This subscription will be used in the future and should not accept any orders at the moment
HighPriorityOrders	Here all the high priority orders should be sent
GlobalOrders	Here the order where the region is not USA should be sent
HighOrders	Orders where the quantity is greater than 1000 should be sent
AllOrders	For auditing purposes, all orders should be sent here

You need to implement the right filters for each of the subscriptions given above.

Which of the following would you implement for the Subscription – GlobalOrders?

- A. SqlFilter

  (Correct)

- B. CorrelationFilter

- C. TrueFilter

- D. No Filter

- E. FalseFilter

Explanation
Here you can place a Sqlfilter based on the region. The Microsoft documentation mentions the following with regards to the filter ;Since this is the ideal filter to use, all other options are invalid ;For more information on topic filters, one can go to the below link ;https://docs.microsoft.com/en-us/azure/service-bus-messaging/topic-filters
Question 91: Skipped
A company is implementing an order processing system. The orders are going to be published to an Azure Service Bus topic. The properties of the messages that would be sent are as follows ;
Larger image

Property	Description
Location	The region of the shipment
CorrelationId	Used as the priority value for the order
Quantity	User defined property that defines the order quantity
Audited	User defined property that defines the order date

The following subscriptions will be created. The requirement for each subscription is also given ;
Larger image

Property	Description
LaterOrders	This subscription will be used in the future and should not accept any orders at the moment
HighPriorityOrders	Here all the high priority orders should be sent
GlobalOrders	Here the order where the region is not USA should be sent
HighOrders	Orders where the quantity is greater than 1000 should be sent
AllOrders	For auditing purposes, all orders should be sent here

You need to implement the right filters for each of the subscriptions given above.
Which of the following would you implement for the Subscription – HighOrders?

- A. SqlFilter

  (Correct)

- B. CorrelationFilter

- C. TrueFilter

- D. No Filter

- E. FalseFilter

Explanation
Here you can place a Sqlfilter based on the quantity. The Microsoft documentation mentions the following with regards to the filter ;Since this is the ideal filter to use, all other options are invalid ;For more information on topic filters, one can go to the below link ;https://docs.microsoft.com/en-us/azure/service-bus-messaging/topic-filters

Question 92: Skipped

A company is implementing an order processing system. The orders are going to be published to an Azure Service Bus topic. The properties of the messages that would be sent are as follows ;

Larger image

Property	Description
Location	The region of the shipment
CorrelationId	Used as the priority value for the order
Quantity	User defined property that defines the order quantity
Audited	User defined property that defines the order date

The following subscriptions will be created. The requirement for each subscription is also given ;

Larger image

Property	Description
LaterOrders	This subscription will be used in the future and should not accept any orders at the moment
HighPriorityOrders	Here all the high priority orders should be sent
GlobalOrders	Here the order where the region is not USA should be sent
HighOrders	Orders where the quantity is greater than 1000 should be sent
AllOrders	For auditing purposes, all orders should be sent here

You need to implement the right filters for each of the subscriptions given above.
Which of the following would you implement for the Subscription – AllOrders?

- A. SqlFilter
-

B. CorrelationFilter

- C. TrueFilter

- D. No Filter

(Correct)

- E. FalseFilter

Explanation
Here since you want all messages to come for the subscription, there is no need to add any filter. ;For more information on topic filters, one can go to the below link ;https://docs.microsoft.com/en-us/azure/service-bus-messaging/topic-filters
Question 93: Skipped
Your team is developing an Azure Web App. TLS mutual authentication has been configured and you need to validate the client certificate in the Web App. ;Which of the following would be the location of the client certificate?

- A. HTTP request header

(Correct)

- B. Client cookie
- C. HTTP message body
- D. URL Query string

Explanation
This is given in the Microsoft documentation ;Since this is clearly given in the documentation, all other options are incorrect ;For more information on configuring TLS authentication for the web app, one can go to the below link ;https://docs.microsoft.com/en-us/azure/app-service/app-service-web-configure-tls-mutual-auth

Question 94: Skipped

Your team is developing an Azure Web App. TLS mutual authentication has been configured and you need to validate the client certificate in the Web App. ;Which of the following would be the encoding type for the certificate?

- A. HTML
- B. URL

- C. Unicode

- D. Base64

(Correct)

Explanation
This is given in the Microsoft documentation ;Since this is clearly given in the documentation, all other options are incorrect ;For more information on configuring TLS authentication for the web app, one can go to the below link ;https://docs.microsoft.com/en-us/azure/app-service/app-service-web-configure-tls-mutual-auth

Question 95: Skipped

Your company has an ASP.Net Core web application. This web application runs on Docker. The application is mapped to a domain named www.skillcertlabs.com.
The application needs to be hosted in Azure using Azure Web App service and the docker image for the web application. You also have to map a custom domain to the Azure Web app service. The following variables are in place
Variable name Description ;
skillcertlabsAppName Name of the application ;
Location Location of the resource ;
dockerHubContainerPath Location of the docker image ;
You have to issue the required CLI commands for the provisioning process.
Which of the following would you issue to create the App Service plan?

- A. az appservice plan create --name skillcertlabsplan --resource-

group skillcertlabs-rg

- B. az appservice plan create --name skillcertlabsplan --resource-group skillcertlabs-rg --location $location --is-linux --sku S1

  (Correct)

- C. az appservice plan set --name skillcertlabsplan --resource-group skillcertlabs-rg --location $location --is-linux --sku S1

- D. az appservice plan docker create --name skillcertlabsplan --resource-group skillcertlabs-rg --location $location --is-linux --sku S1

Explanation
An example of this is given in the Microsoft documentation ;Since this is clearly given in the documentation, all other options are incorrect ;For more information on create a linux docker web app, one can go to the below link ;https://docs.microsoft.com/en-us/azure/app-service/scripts/cli-linux-docker-aspnetcore

Question 96: Skipped

Your company has an ASP.Net Core web application. This web application runs on Docker. The application is mapped to a domain named www.skillcertlabs.com.
The application needs to be hosted in Azure using Azure Web App service and the docker image for the web application. You also

have to map a custom domain to the Azure Web app service. The following variables are in place
Variable name Description ;
skillcertlabsAppName Name of the application ;
Location Location of the resource ;
dockerHubContainerPath Location of the docker image ;
You have to issue the required CLI commands for the provisioning process.
Which of the following would you issue to create the Web App?

- A. az webapp create --name $appName --plan skillcertlabsplan --resource-group skillcertlabs-rg

  (Correct)

- B. az webapp set--name $appName --plan skillcertlabsplan --resource-group skillcertlabs-rg

- C. az docker create --name $appName --plan skillcertlabsplan --resource-group skillcertlabs-rg

- D. az docker image create --name $appName --plan skillcertlabsplan --resource-group skillcertlabs-rg

Explanation

An example of this is given in the Microsoft documentation ;Since this is clearly given in the documentation, all other options are incorrect ;For more information on create a linux docker web app, one can go to the below link ;https://docs.microsoft.com/en-us/azure/app-service/scripts/cli-linux-docker-aspnetcore

Question 97: Skipped

Your company has an ASP.Net Core web application. This web application runs on Docker. The application is mapped to a domain named www.skillcertlabs.com.

The application needs to be hosted in Azure using Azure Web App service and the docker image for the web application. You also have to map a custom domain to the Azure Web app service. The following variables are in place

Variable name Description ;

skillcertlabsAppName Name of the application ;

Location Location of the resource ;

dockerHubContainerPath Location of the docker image ;

You have to issue the required CLI commands for the provisioning process.

Which of the following would you issue to configure the Web App?

- A. az webapp config container set --docker-custom-image-name $dockerHubContainerPath --name $appName --resource-group skillcertlabs-rg

  (Correct)

- B. az docker config container set --docker-custom-image-name $dockerHubContainerPath --name $appName --resource-group skillcertlabs-rg

- C. az kubernetes config container set --docker-custom-image-

name $dockerHubContainerPath --name $appName --resource-group skillcertlabs-rg

-

D. az kubectl config container set --docker-custom-image-name $dockerHubContainerPath --name $appName --resource-group skillcertlabs-rg

Explanation
An example of this is given in the Microsoft documentation ;Since this is clearly given in the documentation, all other options are incorrect ;For more information on create a linux docker web app, one can go to the below link ;https://docs.microsoft.com/en-us/azure/app-service/scripts/cli-linux-docker-aspnetcore

Question 98: Skipped

A company is developing a shopping application for Windows devices. A notification needs to be sent on a user's device whenever a new product is entered into the application. You have to implement push notifications. ;You have to complete the missing parts in the partial code segment given below

Larger image

Which of the following would go into Slot1?

- A. NotificationHubClient

  (Correct)

- B. NotificationHubClientSettings

- C. NotificationHubJob

- D. NotificationDetails

Explanation
An example of this is given in the Microsoft documentation ;Since this is clearly given in the documentation, all other options are incorrect ;For more information on enterprise push notification architecture, one can go to the below link ;https://docs.microsoft.com/en-us/azure/notification-hubs/notification-hubs-enterprise-push-notification-architecture
Question 99: Skipped
A company is developing a shopping application for Windows devices. A notification needs to be sent on a user's device whenever a new product is entered into the application. You have to implement push notifications. ;You have to complete the missing parts in the partial code segment given below
Larger image

Which of the following would go into Slot2?

- A. NotificationHubClient

  (Correct)

- B. NotificationHubClientSettings

- C. NotificationHubJob

- D. NotificationDetails

Explanation

An example of this is given in the Microsoft documentation ;Since this is clearly given in the documentation, all other options are incorrect ;For more information on enterprise push notification architecture, one can go to the below link ;https://docs.microsoft.com/en-us/azure/notification-hubs/notification-hubs-enterprise-push-notification-architecture

Question 100: Skipped

A company is developing a shopping application for Windows devices. A notification needs to be sent on a user's device whenever a new product is entered into the application. You have to implement push notifications. ;You have to complete the missing parts in the partial code segment given below

Larger image

Which of the following would go into Slot3?

- A. GetInstallation
- B. CreateClientFromConnectionString

(Correct)

- C. CreateInstallation

- D. PatchInstallation

Explanation
An example of this is given in the Microsoft documentation ;Since this is clearly given in the documentation, all other options are incorrect ;For more information on enterprise push notification architecture, one can go to the below link ;https://docs.microsoft.com/en-us/azure/notification-hubs/notification-hubs-enterprise-push-notification-architect