



# AZ-203<sup>Q&As</sup>

Developing Solutions for Microsoft Azure

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### QUESTION 1

You need to debug the user greeting issue. What should you use?

- A. Bot Framework Channel Inspector
- B. Bot Connector service
- C. Azure Compute Emulator
- D. Azure Application Insights
- E. Bot Framework Emulator

Correct Answer: E

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

Debug your bot using an integrated development environment (IDE) such as Visual Studio or Visual Studio Code and the Bot Framework Emulator. You can use these methods to debug any bot locally.

References:

<https://docs.microsoft.com/en-us/azure/bot-service/bot-service-debug-bot?view=azure-bot-service-4.0>

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### QUESTION 2

#### HOTSPOT

You need to meet the security requirements for external partners.

Which Azure Active Directory features should you use?

To answer, select the appropriate options in the answer area;

NOTE: Each correct selection is worth one point.

Hot Area:

**Answer Area**

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

Correct Answer:

**Answer Area**

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

**QUESTION 3**

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

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

Margie\\'s Travel is an international travel and bookings management service. The company is expanding into restaurant bookings. You are tasked with implementing Azure Search for the restaurants listed in their solution.



You create the index in Azure Search.

You need to import the restaurant data into the Azure Search service by using the Azure Search .NET SDK.

Solution:

1.

Create a SearchServiceClient object to connect to the search index.

2.

Create a DataContainer that contains the documents which must be added.

3.

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

4.

Set the DataSources property of the SearchServiceClient.

Does the solution meet the goal?

A. Yes

B. No

Correct Answer: B

Use the following method:

1.

- Create a SearchIndexClient object to connect to the search index

2.

- Create an IndexBatch that contains the documents which must be added.

3.

- Call the Documents.Index method of the SearchIndexClient and pass the IndexBatch.

References: <https://docs.microsoft.com/en-us/azure/search/search-howto-dotnet-sdk>

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#### QUESTION 4

You need to update the chatbot to greet the user when they sign in. Which two rich card formats can you use? Each correct answer presents a complete solution.

NOTE: Each correct selection is worth one point

A. Thumbnail



B. Adaptive

C. Sign-in

D. Hero

E. Animation

Correct Answer: AC

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

## Welcome to the Restaurant!



John Doe

Sun, Aug 26, 2018

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

**Specials:** Chicken Marsala

**Order Pickup**

**Order Delivery**

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

attachments within the message.

The Bot Framework currently supports eight types of rich cards:

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

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

Incorrect Answers:

B: Animation Card. A card that can play animated GIFs or short videos. C Hero Card. A card that typically contains a single large image, one or more buttons, and text.

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

Note:

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

**Video Card.** A card that can play videos.



## References:

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

**QUESTION 5****DRAG DROP**

You need to implement telemetry for non-user actions.

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

scroll to view content.

NOTE: Each correct selection is worth one point.

Select and Place:

**Code segments**

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

**Answer Area**

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

Correct Answer:



## Code segments

## Answer Area

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

## QUESTION 6

You are writing code to create and run an Azure Batch job.

You have created a pool of compute nodes.

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

Which method should you use?

- A. JobOperations.EnableJobAsync(String, IEnumerable, CancellationToken)
- B. JobOperations.CreateJob()
- C. CloudJob.Enable(IEnumerable)
- D. JobOperations.EnableJob(String, IEnumerable)
- E. CloudJob.CommitAsync(IEnumerable, CancellationToken)

Correct Answer: E

A Batch job is a logical grouping of one or more tasks. A job includes settings common to the tasks, such as priority and the pool to run tasks on. The app uses the BatchClient.JobOperations.CreateJob method to create a job on your pool.

The Commit method submits the job to the Batch service. Initially the job has no tasks.

```
{
CloudJob job = batchClient.JobOperations.CreateJob();
```



```
job.Id = JobId;  
  
job.PoolInformation = new PoolInformation { PoolId = PoolId };  
  
job.Commit();  
  
}  
  
...
```

References:

<https://docs.microsoft.com/en-us/azure/batch/quick-run-dotnet>

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## QUESTION 7

### HOTSPOT

You need to retrieve all order line items sorted alphabetically by the city.

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

NOTE: Each correct selection is worth one point.

Hot Area:

Answer Area

SELECT lid AS lineid FROM  
FROM OrderLineItems  
ORDER BY o.address ASC

o.address.city  
o.address.city  
o.city  
o.city

Correct Answer:





### QUESTION 8

#### DRAG DROP

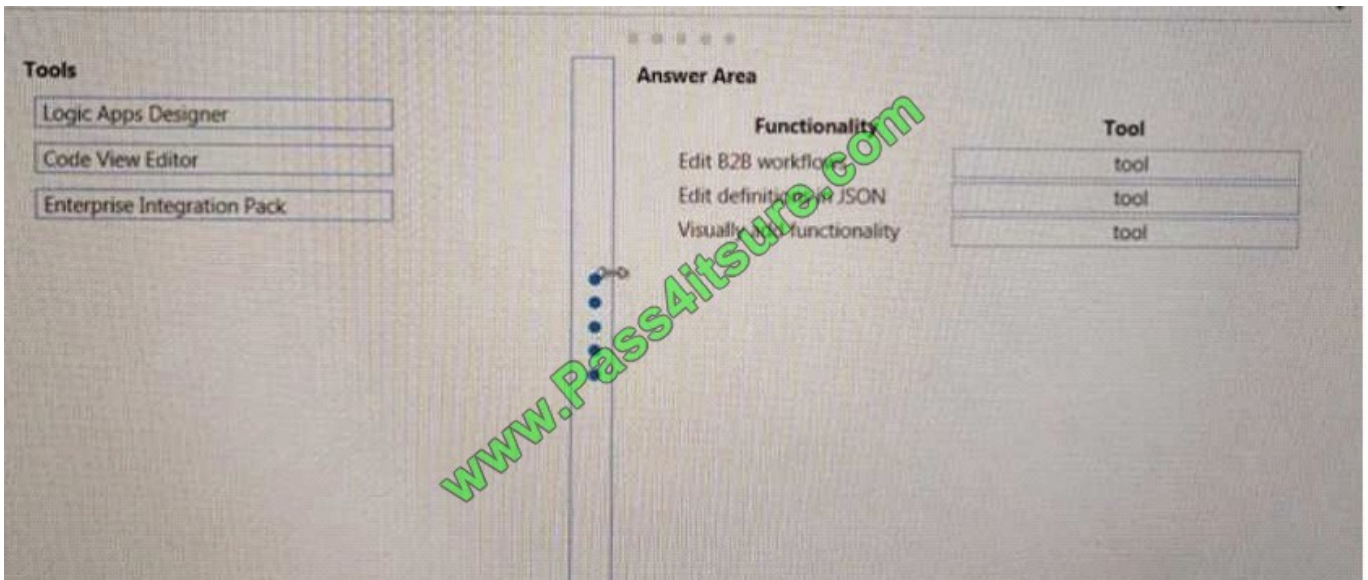
You manage several existing Logic Apps.

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

What should you use? To answer, drag the appropriate tools to the coned functionalities. Each tool may be used once, more than once, or not at all- You may need to drag the split bar between panes or scroll to view content.

NOTE: Each correct selection is worth one point.

Select and Place:



Correct Answer:

**QUESTION 9****HOTSPOT**

You have an Azure Batch project that processes and converts files and stores the files in Azure storage. You are developing a function to start the batch job.

You add the following parameters to the function.

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

You must ensure that converted files are placed in the container referenced by the outputContainerSasUrl parameter. Files which fail to convert are placed in the container referenced by the failedContainerSasUrl parameter.

You need to ensure the files are correctly processed.

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

NOTE: Each correct selection is worth one point.

Hot Area:

**Answer Area**

```
public List<CloudTasks> StartTasks(List<FileTask> fileTasks, string jobId,
string outputContainerSasUrl, string failedContainerSasUrl)
{
    BatchSharedKeyCredentials sharedKeyCredentials =
        new BatchSharedKeyCredentials(batchAccountUrl, batchAccountName,
batchAccountKey);
    List<CloudTask> tasks = new List<CloudTask>();
    using (BatchClient batchClient = BatchClient.Open(sharedKeyCredentials))
    {
        CloudJob = batchClient.JobOperations.
            GetJob (jobId);

        job.Id = jobId,
        job.PoolInformation = new PoolInformation { PoolId = poolId };
        job.Commit();
        fileTasks.ForEach((fileTask) =>
        {
            string taskId = $"Task{DateTime.Now.ToFileTimeUtc().ToString()}";
            CloudTask task = new CloudTask (taskId, fileTask.Command);
            List<OutputFile> outputFileList = new List<OutputFile>();
            OutputFileBlobContainerDestination outputContainer =
                new OutputFileBlobContainerDestination(outputContainerSasUrl);
            OutputFileBlobContainerDestination failedContainer =
                new OutputFileBlobContainerDestination (failedContainerSasUrl);
            outputFileList.Add(new OutputFile (fileTask.Output,
                new OutputFileDestination(outputContainer),
                new OutputFileUploadOptions(OutputFileUploadCondition.
                    TaskSuccess)));

            outputFileList.Add(new OutputFile (fileTask.Output,
                new OutputFileDestination(failedContainer),
                new OutputFileUploadOptions(OutputFileUploadCondition.
                    TaskFailure)));

            task.OutputFiles = outputFileList;

            task.Add(task);
        });
    }
    return tasks,
}
```

Correct Answer:



**Answer Area**

```

public List<CloudTasks> StartTasks(List<FileTask> fileTasks, string jobId,
string outputContainerSasUrl, string failedContainerSasUrl)
{
    BatchSharedKeyCredentials sharedKeyCredentials =
        new BatchSharedKeyCredentials(batchAccountUrl, batchAccountName,
batchAccountKey);
    List<CloudTask> tasks = new List<CloudTask>();
    using (BatchClient batchClient = BatchClient.Open(sharedKeyCredentials))
    {
        CloudJob = batchClient.JobOperations.
        job.Id = jobId,
        job.PoolInformation = new PoolInformation { PoolId = poolId };
        job.Commit();
        fileTasks.ForEach((fileTask) =>
        {
            string taskId = $"Task{DateTime.Now.ToFileTimeUtc().ToString()}";
            CloudTask task = new CloudTask (taskId, fileTask.Command);
            List<OutputFile> outputFileList = new List<OutputFile>();
            OutputFileBlobContainerDestination outputContainer =
                new OutputFileBlobContainerDestination(outputContainerSasUrl);
            OutputFileBlobContainerDestination failedContainer =
                new OutputFileBlobContainerDestination (failedContainerSasUrl);
            outputFileList.Add(new OutputFile (fileTask.Output,
                new OutputFileDestination(outputContainer),
                new OutputFileUploadOptions(OutputFileUploadCondition.
            outputFileList.Add(new OutputFile (fileTask.Output,
                new OutputFileDestination(failedContainer),
                new OutputFileUploadOptions(OutputFileUploadCondition,
            task
            task.Add(task);
        });
    }
    return tasks,
}

```

GetJob
GetTask
EnableJob
CreateJob

TaskSuccess
TaskFailure
TaskCompletion

TaskSuccess
TaskFailure
TaskCompletion

OutputFiles
FilesToStage
ResourceFiles
StageFiles

Box 1: CreateJob

Box 2: TaskSuccess

TaskSuccess: Upload the file(s) only after the task process exits with an exit code of 0.

Incorrect: TaskCompletion: Upload the file(s) after the task process exits, no matter what the exit code was.

Box 3: TaskFailure



TaskFailure:Upload the file(s) only after the task process exits with a nonzero exit code.

#### Box 4: OutputFiles

To specify output files for a task, create a collection of OutputFile objects and assign it to the CloudTask.OutputFiles property when you create the task.

#### References:

<https://docs.microsoft.com/en-us/dotnet/api/microsoft.azure.batch.protocol.models.outputfileuploadcondition>

<https://docs.microsoft.com/en-us/azure/batch/batch-task-output-files>

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### QUESTION 10

You need to ensure that the solution can meet the scaling requirements for Policy Service. Which Azure Application Insights data model should you use?

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

Correct Answer: D

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### QUESTION 11

Note: This question is part of a series of questions that present the same scenario. Each question in the series contains a unique solution. Determine whether the solution meets the stated goals.

You need to meet the LabelMaker application security requirement.

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

Does the solution meet the goal?

- A. Yes
- B. No

Correct Answer: A

Scenario: The LabelMaker applications must be secured by using an AAD account that has full access to all namespaces of the Azure Kubernetes Service (AKS) cluster.

Permissions can be granted within a namespace with a RoleBinding, or cluster-wide with a ClusterRoleBinding.

#### References:



<https://kubernetes.io/docs/reference/access-authn-authz/rbac/>

## QUESTION 12

### HOTSPOT

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

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

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

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

NOTE: Each correct selection is worth one point.

Hot Area:

### Answer Area

```
cloudStorageAccount storageAccount = CloudStorageAccount.Parse(  
    CloudConfigurationManager.GetSetting("StorageConnectionString"));  
CloudTableClient tableClient = storageAccount.CreateCloudTableClient();  
CloudTable table = tableClient.GetTableReference("clients");  
Table.CreateIfNotExists();
```

	▼	op = new		▼	() ;
TableOperation			TableOperation		
TableBatchOperaton			TableBatchOperaton		
TableEntity			TableEntity		
TableQuery			TableQuery		

...

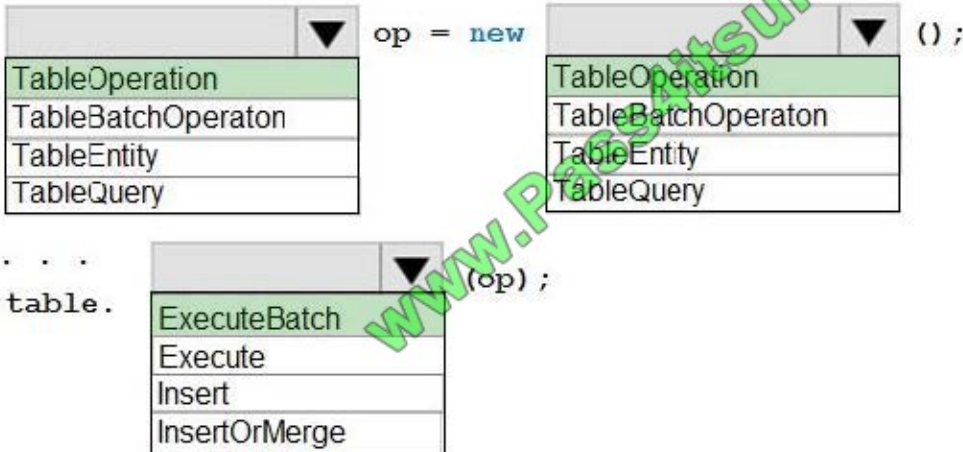
	▼	(op) ;
table.		
ExecuteBatch		
Execute		
Insert		
InsertOrMerge		

Correct Answer:



## Answer Area

```
CloudStorageAccount storageAccount = CloudStorageAccount.Parse(  
    CloudConfigurationManager.GetSetting("StorageConnectionString"));  
CloudTableClient tableClient = storageAccount.CreateCloudTableClient();  
CloudTable table = tableClient.GetTableReference("clients");  
Table.CreateIfNotExists();
```



Box 1, Box 2: TableBatchOperation

Create the batch operation.

```
TableBatchOperation op = new TableBatchOperation();
```

Box 3: ExecuteBatch

/ Execute the batch operation.

```
table.ExecuteBatch(op);
```

Note: You can insert a batch of entities into a table in one write operation. Some other notes on batch operations:

You can perform updates, deletes, and inserts in the same single batch operation.

A single batch operation can include up to 100 entities.

All entities in a single batch operation must have the same partition key.

While it is possible to perform a query as a batch operation, it must be the only operation in the batch.

References:

<https://docs.microsoft.com/en-us/azure/cosmos-db/table-storage-how-to-use-dotnet>

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