



AZ-204^{Q&As}

Developing Solutions for Microsoft Azure

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QUESTION 1

DRAG DROP

You are developing a software solution for an autonomous transportation system. The solution uses large data sets and Azure Batch processing to simulate navigation sets for entire fleets of vehicles.

You need to create compute nodes for the solution on Azure Batch.

What should you do?

Put the actions in the correct order.

Select and Place:

Select these

In a .NET method, call the method:
BatchClient.PoolOperations.Create Pool

In a .NET method, call the method:
BatchClient.PoolOperations.CreateJob

In the Azure portal, create a Batch account

In a .NET method, call the method:
BatchClient.JobOperations.AddTask

Place here

Four empty rectangular boxes for placing the selected actions in the correct order.

Correct Answer:

Select these

Four empty rectangular boxes for selecting the actions.

Place here

In the Azure portal, create a Batch account

In a .NET method, call the method:
BatchClient.PoolOperations.Create Pool

In a .NET method, call the method:
BatchClient.PoolOperations.CreateJob

In a .NET method, call the method:
BatchClient.JobOperations.AddTask

QUESTION 2



HOTSPOT

You are developing an Azure App Service hosted ASP.NET Core web app to deliver video on-demand streaming media. You enable an Azure Content Delivery Network (CDN) Standard for the web endpoint. Customer videos are downloaded

from the web app by using the following example URL: `http://www.contoso.com/content.p4?quality=1`

All media content must expire from the cache after one hour. Customer videos with varying quality must be delivered to the closest regional point of presence (POP) node.

You need to configure Azure CDN caching rules.

Which options 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

Setting	Action
Caching behavior	<div style="border: 1px solid black; padding: 2px;"><div style="background-color: #f0f0f0; padding: 2px; display: flex; justify-content: space-between;">▼</div><div style="padding: 2px;"><ul style="list-style-type: none">Bypass cacheOverrideSet if missing</div></div>
Cache expiration duration	<div style="border: 1px solid black; padding: 2px;"><div style="background-color: #f0f0f0; padding: 2px; display: flex; justify-content: space-between;">▼</div><div style="padding: 2px;"><ul style="list-style-type: none">1 second1 minute1 hour1 day</div></div>
Query string caching behavior	<div style="border: 1px solid black; padding: 2px;"><div style="background-color: #f0f0f0; padding: 2px; display: flex; justify-content: space-between;">▼</div><div style="padding: 2px;"><ul style="list-style-type: none">Ignore query stringsBypass caching for query stringsCache every unique URL</div></div>

Correct Answer:



Answer Area

Setting	Action
Caching behavior	<div style="border: 1px solid black; padding: 2px;"><div style="background-color: #f0f0f0; padding: 2px; display: flex; justify-content: space-between;">▼</div><div style="padding: 2px;"><p>Bypass cache</p><p style="background-color: #d9ead3;">Override</p><p>Set if missing</p></div></div>
Cache expiration duration	<div style="border: 1px solid black; padding: 2px;"><div style="background-color: #f0f0f0; padding: 2px; display: flex; justify-content: space-between;">▼</div><div style="padding: 2px;"><p>1 second</p><p>1 minute</p><p style="background-color: #d9ead3;">1 hour</p><p>1 day</p></div></div>
Query string caching behavior	<div style="border: 1px solid black; padding: 2px;"><div style="background-color: #f0f0f0; padding: 2px; display: flex; justify-content: space-between;">▼</div><div style="padding: 2px;"><p>Ignore query strings</p><p>Bypass caching for query strings</p><p style="background-color: #d9ead3;">Cache every unique URL</p></div></div>

Box 1: Override

Override: Ignore origin-provided cache duration; use the provided cache duration instead. This will not override cache-control: no-cache.

Set if missing: Honor origin-provided cache-directive headers, if they exist; otherwise, use the provided cache duration.

Incorrect:

Bypass cache: Do not cache and ignore origin-provided cache-directive headers.

Box 2: 1 hour

All media content must expire from the cache after one hour.

Box 3: Cache every unique URL

Cache every unique URL: In this mode, each request with a unique URL, including the query string, is treated as a unique asset with its own cache. For example, the response from the origin server for a request for example.ashx?q=test1 is

cached at the POP node and returned for subsequent caches with the same query string. A request for example.ashx?q=test2 is cached as a separate asset with its own time-to-live setting.

Incorrect Answers:

Bypass caching for query strings: In this mode, requests with query strings are not cached at the CDN POP node. The POP node retrieves the asset directly from the origin server and passes it to the requestor with each request.



Ignore query strings: Default mode. In this mode, the CDN point-of-presence (POP) node passes the query strings from the requestor to the origin server on the first request and caches the asset. All subsequent requests for the asset that are

served from the POP ignore the query strings until the cached asset expires.

References:

<https://docs.microsoft.com/en-us/azure/cdn/cdn-query-string>

QUESTION 3

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 correct 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:

Answer Area

Tools

Logic Apps Designer

Code View Editor

Enterprise Integration Pack

Functionality

Edit B2B workflows

Edit definitions in JSON

Visually and functionality

Tool

Correct Answer:



Answer Area

Tools	Functionality	Tool
<input type="text"/>	Edit B2B workflows	Enterprise Integration Pack
<input type="text"/>	Edit definitions in JSON	Code View Editor
<input type="text"/>	Visually and functionality	Logic Apps Designer

Box 1: Enterprise Integration Pack

For business-to-business (B2B) solutions and seamless communication between organizations, you can build automated scalable enterprise integration workflows by using the Enterprise Integration Pack (EIP) with Azure Logic Apps.

Box 2: Code View Editor

Edit JSON - Azure portal

1.

Sign in to the Azure portal.

2.

From the left menu, choose All services. In the search box, find "logic apps", and then from the results, select your logic app.

3.

On your logic app's menu, under Development Tools, select Logic App Code View.

4.

The Code View editor opens and shows your logic app definition in JSON format.

Box 3: Logic Apps Designer

Reference: <https://docs.microsoft.com/en-us/azure/logic-apps/logic-apps-enterprise-integration-overview>

<https://docs.microsoft.com/en-us/azure/logic-apps/logic-apps-author-definitions>

QUESTION 4

You are developing a software solution for an autonomous transportation system. The solution uses large data sets and Azure Batch processing to simulate navigation sets for entire fleets of vehicles.



You need to create compute nodes for the solution on Azure Batch.

What should you do?

- A. In the Azure portal, add a Job to a Batch account.
- B. In a .NET method, call the method: BatchClient.PoolOperations.CreateJob
- C. In Python, implement the class: JobAddParameter
- D. In Azure CLI, run the command: az batch pool create
- E. In a .NET method, call the method: BatchClient.PoolOperations.CreatePool
- F. In Python, implement the class: TaskAddParameter
- G. In the Azure CLI, run the command: az batch account create

Correct Answer: B

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.

Note:

Step 1: Create a pool of compute nodes. When you create a pool, you specify the number of compute nodes for the pool, their size, and the operating system. When each task in your job runs, it's assigned to execute on one of the nodes in

your pool.

Step 2: Create a job. A job manages a collection of tasks. You associate each job to a specific pool where that job's tasks will run.

Step 3: Add tasks to the job. Each task runs the application or script that you uploaded to process the data files it downloads from your Storage account. As each task completes, it can upload its output to Azure Storage.

Incorrect Answers:

C, F: To create a Batch pool in Python, the app uses the PoolAddParameter class to set the number of nodes, VM size, and a pool configuration.

E: BatchClient.PoolOperations does not have a CreateJob method.

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

QUESTION 5

Note: This question is part of a series of questions that present the same scenario. Each question in the series contains a unique solution that might meet the stated goals. Some question sets might have more than one correct solution, while

others might not have a correct solution.



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

You are developing an Azure Service application that processes queue data when it receives a message from a mobile application. Messages may not be sent to the service consistently.

You have the following requirements:

1.

Queue size must not grow larger than 80 gigabytes (GB).

2.

Use first-in-first-out (FIFO) ordering of messages.

3.

Minimize Azure costs.

You need to implement the messaging solution.

Solution: Use the .Net API to add a message to an Azure Service Bus Queue from the mobile application. Create an Azure Windows VM that is triggered from Azure Service Bus Queue.

Does the solution meet the goal?

A. Yes

B. No

Correct Answer: B

Don't use a VM, instead create an Azure Function App that uses an Azure Service Bus Queue trigger.

Reference: <https://docs.microsoft.com/en-us/azure/azure-functions/functions-create-storage-queue-triggered-function>

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