



AZ-204^{Q&As}

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QUESTION 1

You develop an app that allows users to upload photos and videos to Azure storage. The app uses a storage REST API call to upload the media to a blob storage account named Account1. You have blob storage containers named

Container1 and Container2.

Uploading of videos occurs on an irregular basis.

You need to copy specific blobs from Container1 to Container2 in real time when specific requirements are met, excluding backup blob copies.

What should you do?

- A. Download the blob to a virtual machine and then upload the blob to Container2.
- B. Run the Azure PowerShell command Start-AzureStorageBlobCopy.
- C. Copy blobs to Container2 by using the Put Blob operation of the Blob Service REST API.
- D. Use AzCopy with the Snapshot switch blobs to Container2.

Correct Answer: B

The Start-AzureStorageBlobCopy cmdlet starts to copy a blob.

Example 1: Copy a named blob

```
C:\PS>Start-AzureStorageBlobCopy -SrcBlob "ContosoPlanning2015" -DestContainer "ContosoArchives" -SrcContainer "ContosoUploads"
```

This command starts the copy operation of the blob named ContosoPlanning2015 from the container named ContosoUploads to the container named ContosoArchives.

References:

<https://docs.microsoft.com/en-us/powershell/module/azure.storage/start-azurestorageblobcopy?view=azurermps-6.13.0>

QUESTION 2

DRAG DROP

You are preparing to deploy a medical records application to an Azure virtual machine (VM). The application will be deployed by using a VHD produced by an on-premises build server.

You need to ensure that both the application and related data are encrypted during and after deployment to Azure.

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

Select and Place:



Actions

Encrypted the on-premises VHD by using BitLocker with a TPM.
Upload the VM to Azure Storage.

Run the Azure PowerShell command `Set-AzureRmVMDisk`.

Run the Azure PowerShell command `New-AzureRmVM`.

Encrypt the on-premises VHD by using BitLocker without a TPM.
Upload the VM to Azure Storage.

Run the Azure PowerShell command `Set-AzureRmVMDiskEncryptionExtension`.

Answer Area

Pass4itSure.com watermark and navigation arrows.

Correct Answer:

Actions

Encrypted the on-premises VHD by using BitLocker with a TPM.
Upload the VM to Azure Storage.

Run the Azure PowerShell command `New-AzureRmVM`.

Answer Area

Encrypt the on-premises VHD by using BitLocker without a TPM.
Upload the VM to Azure Storage.

Run the Azure PowerShell command `Set-AzureRmVMDisk`.

Run the Azure PowerShell command `Set-AzureRmVMDiskEncryptionExtension`.

Step 1: Encrypt the on-premises VHD by using BitLocker without a TPM. Upload the VM to Azure Storage

Step 2: Run the Azure PowerShell command `Set-AzureRMVMOSDisk`

To use an existing disk instead of creating a new disk you can use the `Set-AzureRMVMOSDisk` command.

Example:

```
$osDiskName = $vmname+'\'_osDisk\'
```

```
$osDiskCaching = \'ReadWrite\'
```

```
$osDiskVhdUri = "https://$stname.blob.core.windows.net/vhds/" + $vmname + "_os.vhd"
```

```
$vm = Set-AzureRmVMOSDisk -VM $vm -VhdUri $osDiskVhdUri -name $osDiskName -Create
```

Step 3: Run the Azure PowerShell command `Set-AzureRmVMDiskEncryptionExtension`

Use the `Set-AzVMDiskEncryptionExtension` cmdlet to enable encryption on a running IaaS virtual machine in Azure.



Incorrect:

Not TPM: BitLocker can work with or without a TPM. A TPM is a tamper resistant security chip on the system board that will hold the keys for encryption and check the integrity of the boot sequence and allows the most secure BitLocker implementation. A VM does not have a TPM.

References:

<https://www.itprotoday.com/iaaspaas/use-existing-vhd-azurerem-vm>

QUESTION 3

You are developing an ASP.NET Core Web API web service. The web service uses Azure Application Insights for all telemetry and dependency tracking. The web service reads and writes data to a database other than Microsoft SQL Server.

You need to ensure that dependency tracking works for calls to the third-party database.

Which two Dependency Telemetry properties should you store in the database? Each correct answer presents part of the solution.

NOTE: Each correct selection is worth one point.

- A. Telemetry.Context.Operation.Id
- B. Telemetry.Name
- C. Telemetry.Context.Cloud.RoleInstance
- D. Telemetry.Context.Session.Id
- E. Telemetry.Id

Correct Answer: AE

Example:

```
public async Task Enqueue(string payload)
{
    // StartOperation is a helper method that initializes the telemetry item
    // and allows correlation of this operation with its parent and children.
    var operation = telemetryClient.StartOperation("enqueue " + queueName);
    operation.Telemetry.Type = "Azure Service Bus";
    operation.Telemetry.Data = "Enqueue " + queueName;
    var message = new BrokeredMessage(payload);
    // Service Bus queue allows the property bag to pass along with the message.
```



```
// We will use them to pass our correlation identifiers (and other context)
```

```
// to the consumer.
```

```
message.Properties.Add("ParentId", operation.Telemetry.Id);
```

```
message.Properties.Add("RootId", operation.Telemetry.Context.Operation.Id);
```

References: <https://docs.microsoft.com/en-us/azure/azure-monitor/app/custom-operations-tracking>

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

DRAG DROP

Contoso, Ltd. provides an API to customers by using Azure API Management (APIM). The API authorizes users with a JWT token.

You must implement response caching for the APIM gateway. The caching mechanism must detect the user ID of the client that accesses data for a given location and cache the response for that 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 should you add the policies? To answer, drag the appropriate sections to the correct policies. Each section 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

Policy section	Policy	Policy section
	Set-variable	<input type="text"/>
<input type="text" value="Inbound"/>	Cache-lookup-value	<input type="text"/>
<input type="text" value="Outbound"/>	Cache-store-value	<input type="text"/>
	Find-and-replace	<input type="text"/>

Correct Answer:

Answer Area

Policy section	Policy	Policy section
	Set-variable	<input type="text" value="Inbound"/>
<input type="text" value="Inbound"/>	Cache-lookup-value	<input type="text" value="Inbound"/>
<input type="text" value="Outbound"/>	Cache-store-value	<input type="text" value="Outbound"/>
	Find-and-replace	<input type="text" value="Outbound"/>

Box 1: Inbound.



A set-variable policy to store the detected user identity.

Example:

Box 2: Inbound A cache-lookup-value policy Example:

parameter name

Box 3: Outbound

A cache-store-value policy.

Example:

Box 4: Outbound

A find-and-replace policy to update the response body with the user profile information.

Example:

Reference: <https://docs.microsoft.com/en-us/azure/api-management/api-management-caching-policies>

<https://docs.microsoft.com/en-us/azure/api-management/api-management-sample-cache-by-key>



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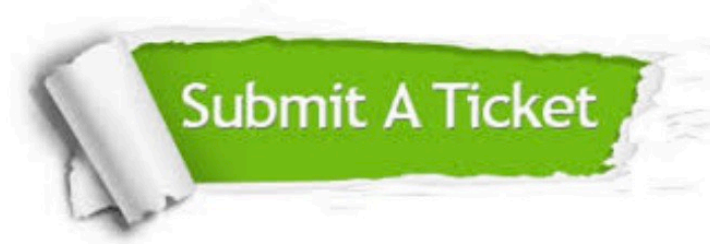
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