



AZ-300^{Q&As}

Microsoft Azure Architect Technologies

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QUESTION 1

You develop an IoT solution by using Nodejs. The solution is ready to deploy to the production environment.

You must implement the device twin capabilities of Azure IoT Hub. You must register a sensor named Sensor00. The IoT Hub name is Hub01.

You need to register the endpoint with ContosoHub01 so that you can configure them from your solution.

Which four commands should you use to develop the solution? To answer, move the appropriate commands from the list of commands to the answer area and arrange them in the correct order.

Select and Place:

Correct Answer:

Explanation

az extension add --name azure-cli-iot-ext

QUESTION 2

An application that you manage has several web front-end instances. Each web front end communicates with a set of back-end worker processes by using an Azure queue. You are developing code for the worker processes. You have a



function named DoWork0 that handles d3ta processing tasks.

You need to develop code for the worker processes that meets the following requirements:

- Property access an item from the queue and be resistant to failure.
- Run on multiple background processes.
- Ensure that items are available to other workers two minutes after a worker process fails.
- Ensure that messages regarding failed processes are logged to the console.

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:

The screenshot shows an 'Answer Area' with a code editor and a list of options. The code editor contains the following C# code:

```
public void ProcessQueue()
{
    var storageAccount = CloudStorageAccount.Parse(queueConnectionString);
    var queueClient = storageAccount.CreateCloudQueueClient();
    var queue = queueClient.GetQueueReference(queueName);
    var retrievedMessage = queue.GetMessage(
    try
    {
        var item =
            JsonConvert.DeserializeObject<WorkItem>(retrievedMessage);
        DoWork(item);
        queue.Delete();
    }
    catch
    {
        queue.DeleteMessage(retrievedMessage);
        queue.UpdateMessage(retrievedMessage, TimeSpan.FromMinutes(2), MessageUpdateFields.Visibility);
    }
}
}
```

The options to complete the code are:

- AsString
- PopReceipt
- AsBytes
- NextVisibleTime
- Console.WriteLine("Error processing item.");
- queue.DeleteMessage(retrievedMessage);
- queue.UpdateMessage(retrievedMessage, TimeSpan.FromMinutes(2), MessageUpdateFields.Visibility);
- throw new Exception("Error processing item.");

Correct Answer:



```

public void ProcessQueue()
{
    var storageAccount = CloudStorageAccount.Parse(queueConnectionString);
    var queueClient = storageAccount.CreateCloudQueueClient();
    var queue = queueClient.GetQueueReference(queueName);
    var retrievedMessage = queue.GetMessage(
    try
    {
        var item =
            JsonConvert.DeserializeObject<WorkItem>(retrievedMessage);
        DoWork(item);
        queue.Delete();
    } catch {
        queue.DeleteMessage(retrievedMessage);
        queue.UpdateMessage(retrievedMessage, TimeSpan.FromMinutes(2), MessageUpdateFields.Visibility);
    }
}

```

QUESTION 3

HOTSPOT

You have Azure Storage accounts as shown in the following exhibit.

NAME	TYPE	KIND	RESOURCE	LOCATION	SUBSCRIPTI...	ACCESS T...	REPLICAT...
storageaccount1	Storage account	Storage	ContosoRGI	East US	Subscription 1	-	Read-access ge...
storageaccount2	Storage account	StorageV2	ContosoRGI	Central US	Subscription 1	Hot	Geo-redundant...
storageaccount3	Storage account	BlobStorage	ContosoRGI	East US	Subscription 1	Hot	Locally-redund...

Use the drop-down menus to select the answer choice that completes each statement based on the information presented in the graphic. NOTE: Each correct selection is worth one point.

Hot Area:



Answer Area

You can use [answer choice] for Azure Table Storage.

- storageaccount1 only
- storageaccount2 only
- storageaccount3 only
- storageaccount1 and storageaccount2 only
- storageaccount2 and storageaccount3 only

You can use [answer choice] for Azure Blob storage.

- storageaccount3 only
- storageaccount2 and storageaccount3 only
- storageaccount1 and storageaccount3 only
- all the storage accounts

Correct Answer:

Answer Area

You can use [answer choice] for Azure Table Storage.

- storageaccount1 only
- storageaccount2 only
- storageaccount3 only
- storageaccount1 and storageaccount2 only
- storageaccount2 and storageaccount3 only

You can use [answer choice] for Azure Blob storage.

- storageaccount3 only
- storageaccount2 and storageaccount3 only
- storageaccount1 and storageaccount3 only
- all the storage accounts

Note: The three different storage account options are: General-purpose v2 (GPv2) accounts, General-purpose v1 (GPv1) accounts, and Blob storage accounts.

General-purpose v2 (GPv2) accounts are storage accounts that support all of the latest features for blobs, files, queues, and tables.

Blob storage accounts support all the same block blob features as GPv2, but are limited to supporting only block blobs.

General-purpose v1 (GPv1) accounts provide access to all Azure Storage services, but may not have the latest features or the lowest per gigabyte pricing.

References:

<https://docs.microsoft.com/en-us/azure/storage/common/storage-account-options>



QUESTION 4

Note: This question is part of 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.

A company backs up data to on-premises servers at their main facility. The company currently has 30 TB of archived data that infrequently used. The facility has download speeds of 100 Mbps and upload speeds of 20 Mbps.

You need to securely transfer all backups to Azure Blob Storage for long-term archival. All backup data must be sent within seven days.

Solution: Create a file share in Azure Files. Mount the file share to the server and upload the files to the file share. Transfer the files to Azure Blob Storage.

Does this meet the goal?

A. Yes

B. No

Correct Answer: B

QUESTION 5

Your company has offices in New York and Los Angeles.

You have an Azure subscription that contains an Azure virtual network named VNet1. Each office has a site-to-site VPN connection to VNet1.

Each network uses the address spaces shown in the following table:

Location	IP address space
VNet1	192.168.0.0/20
New York	10.0.0.0/16
Los Angeles	10.10.0.0/16

You need to ensure that all Internet-bound traffic from VNet1 is routed through the New York office.

What should you do? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Hot Area:



In Azure, run:

	▼
New-AzureRmLocalNetworkGateway	
New-AzureRmVirtualNetworkGatewayConnection	
Set-AzureRmVirtualNetworkGatewayDefaultSite	

On a VPN device in the New York office, set the traffic selectors to:

	▼
0.0.0.0/0	
10.0.0.0/16	
192.168.0.0/20	

Correct Answer:

In Azure, run:

	▼
New-AzureRmLocalNetworkGateway	
New-AzureRmVirtualNetworkGatewayConnection	
Set-AzureRmVirtualNetworkGatewayDefaultSite	

On a VPN device in the New York office, set the traffic selectors to:

	▼
0.0.0.0/0	
10.0.0.0/16	
192.168.0.0/20	

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