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Vendor:Microsoft

Exam Code:AZ-203

Exam Name:Developing Solutions for Microsoft Azure

Version:Demo

QUESTION 1

A company is implementing a publish-subscribe (Pub/Sub) messaging component by using Azure Service Bus. You are developing the first subscription application.

In the Azure portal you see that messages are being sent to the subscription for each topic. You create and initialize a subscription client object by supplying the correct details, but the subscription application is still not consuming the messages.

You need to complete the source code of the subscription client

What should you do?

- A. `await subscriptionClient.CloseAsync();`
- B. `await subscriptionClient.AddRuleAsync(new RuleDescription(RuleDescription.DefaultRuleName, new TrueFilter()));`
- C. `subscriptionClient.RegisterMessageHandler(ProcessMessagesAsync, messageHandlerOptions);`
- D. `subscriptionClient = new SubscriptionClient(ServiceBusConnectionString, TopicName, SubscriptionName);`

Correct Answer: C

Using topic client, call `RegisterMessageHandler` which is used to receive messages continuously from the entity. It registers a message handler and begins a new thread to receive messages. This handler is waited on every time a new message is received by the receiver.

```
subscriptionClient.RegisterMessageHandler(ReceiveMessagesAsync, messageHandlerOptions);
```

References: <https://www.c-sharpcorner.com/article/azure-service-bus-topic-and-subscription-pub-sub/>

QUESTION 2

You need to implement the e-commerce checkout API.

Which three actions should you perform? Each correct answer presents part of the solution.

NOTE: Each correct selection is worth one point.

- A. In the Azure Function App, enable Manger Service Identity (MSI).
- B. Set the function template's Mode property to Webhook and the Webhook type property to Generic JSON
- C. Set the function template's Mode property to Webhook and the Webhook type property to GitHub.
- D. Create an Azure Function using the HTTP POST function template.
- E. In the Azure Function App, enable Cross-Origin Resource Sharing (CORS) with all origins permitted.
- F. Create an Azure Function using the Generic webhook function template.

Correct Answer: CDF

QUESTION 3

You are developing a project management service by using ASP.NET. The service hosts conversations, files, to-do lists, and a calendar that users can interact with at any time.

The application uses Azure Search for allowing users to search for keywords in the project data.

You need to implement code that creates the object which is used to create indexes in the Azure Search service.

Which two objects should you use? Each correct answer presents part of the solution.

NOTE: Each correct selection is worth one point.

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

Correct Answer: BC

The various client libraries define classes like Index, Field, and Document, as well as operations like Indexes.Create and Documents.Search on the SearchServiceClient and SearchIndexClient classes.

Example:

The sample application we'll be exploring creates a new index named "hotels", populates it with a few documents, then executes some search queries. Here is the main program, showing the overall flow:

/ This sample shows how to delete, create, upload documents and query an index

```
static void Main(string[] args)
{
    IConfigurationBuilder builder = new ConfigurationBuilder().AddJsonFile("appsettings.json");
    IConfigurationRoot configuration = builder.Build();
    SearchServiceClient serviceClient = CreateSearchServiceClient(configuration);
    Console.WriteLine("{0}", "Deleting index...\n");
    DeleteHotelsIndexIfExists(serviceClient);
    Console.WriteLine("{0}", "Creating index...\n");
    CreateHotelsIndex(serviceClient);
    ISearchIndexClient indexClient = serviceClient.Indexes.GetClient("hotels");
```

References:

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

QUESTION 4

HOTSPOT

A company is developing a gaming platform. Users can join teams to play online and see leaderboards that include player statistics. The solution includes an entity named Team.

You plan to implement an Azure Redis Cache instance to improve the efficiency of data operations for entities that rarely change.

You need to invalidate the cache when team data is changed.

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

● ● ● ● ●

```
void ClearCachedTeams()
{
  [dropdown]
  [dropdown]
  [dropdown]
  cache.KeyDelete("teams");
  cache.StringSet("teams", "");
  cache.ValueDelete("teams");
  cache.StringGet("teams", "");
}
```

removed from cache. "

Correct Answer:

Answer Area

```
void ClearCachedTeams()
{
    IDatabase cache = connection.GetDatabase();
    ICache cache = connection.GetDatabase();
    cache.KeyDelete("teams"); removed from cache.
    cache.StringSet("teams", "");
    cache.ValueDelete("teams");
    cache.StringGet("teams", "");
}
```

QUESTION 5

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

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: 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.

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

QUESTION 6

DRAG DROP

You are implementing an order processing system. A point of sale application publishes orders to topics in an Azure Service Bus queue. The label property for the topic includes the following data:

Property	Description
ShipLocation	the country/region where the order will be shipped
CorrelationId	a priority value for the order
Quantity	a user-defined field that stores the quantity of items in an order
AuditedAt	a user-defined field that records the date an order is audited

The system has the following requirements for subscriptions:

Subscription type	Comments
FutureOrders	This subscription is reserved for future use and must not receive any orders.
HighPriorityOrders	Handle all high priority orders and International orders.
InternationalOrders	Handle orders where the country/region is not United States.
HighQuantityOrders	Handle only orders with quantities greater than 100 units.
AllOrders	This subscription is used for auditing purposes. This subscription must receive every single order. AllOrders has an Action defined that updates the AuditedAt property to include the date and time it was received by the subscription.

You need to implement filtering and maximize throughput while evaluating filters.

Which filter types should you implement? To answer, drag the appropriate filter types to the correct subscriptions. Each filter type 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:

Filter types

- SQLFilter
- CorrelationFilter
- No Filter

Answer Area

Subscription	Filter type
--------------	-------------

- | | |
|---------------------|--|
| FutureOrders | |
| HighPriorityOrders | |
| InternationalOrders | |
| HighQuantityOrders | |
| AllOrders | |

Correct Answer:

Filter types

- SQLFilter
- CorrelationFilter
- No Filter

Answer Area

Subscription	Filter type
--------------	-------------

- | | |
|---------------------|-------------------|
| FutureOrders | SQLFilter |
| HighPriorityOrders | CorrelationFilter |
| InternationalOrders | SQLFilter |
| HighQuantityOrders | SQLFilter |
| AllOrders | No Filter |

FutureOrders: SQLFilter HighPriorityOrders: CorrelationFilter CorrelationID only InternationalOrders: SQLFilter Country NOT USA requires an SQL Filter HighQuantityOrders: SQLFilter Need to use relational operators so an SQL Filter is needed. AllOrders: No Filter SQL Filter: SQL Filters - A SqlFilter holds a SQL-like conditional expression that is evaluated in the broker against the arriving messages\'\' user-defined properties and system properties. All system properties must be prefixed with sys. in the conditional expression. The SQL-language subset for filter conditions tests for the existence of properties (EXISTS), as well as for null-values (IS NULL), logical NOT/AND/OR, relational operators, simple numeric arithmetic, and simple text pattern matching with LIKE. Correlation Filters - A CorrelationFilter holds a set of conditions that are matched against one or more of an arriving message\'\'s user and system properties. A

common use is to match against the CorrelationId property, but the application can also choose to match against ContentType, Label, MessageId, ReplyTo, ReplyToSessionId, SessionId, To, and any user-defined properties. A match exists when an arriving message's value for a property is equal to the value specified in the correlation filter. For string expressions, the comparison is case-sensitive. When specifying multiple match properties, the filter combines them as a logical AND condition, meaning for the filter to match, all conditions must match. Boolean filters - The TrueFilter and FalseFilter either cause all arriving messages (true) or none of the arriving messages (false) to be selected for the subscription. References: <https://docs.microsoft.com/en-us/azure/service-bus-messaging/topic-filters>

QUESTION 7

HOTSPOT

You are developing an Azure Web App. You configure TLS mutual authentication for the web app.

You need to validate the client certificate in the web app. To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Hot Area:

Answer Area

Property	Value
Client certificate location	<input type="text"/> HTTP request header Client cookie HTTP message body URL query string
Encoding type	<input type="text"/> HTML URL Unicode Base64

Correct Answer:

Answer Area

Property	Value
Client certificate location	<div style="border: 1px solid black; padding: 2px;"><div style="background-color: #cccccc; padding: 2px; display: flex; justify-content: space-between;">▼</div><ul style="list-style-type: none"><li style="background-color: #d9ead3; padding: 2px;">HTTP request header<li style="padding: 2px;">Client cookie<li style="padding: 2px;">HTTP message body<li style="padding: 2px;">URL query string</div>
Encoding type	<div style="border: 1px solid black; padding: 2px;"><div style="background-color: #cccccc; padding: 2px; display: flex; justify-content: space-between;">▼</div><ul style="list-style-type: none"><li style="padding: 2px;">HTML<li style="padding: 2px;">URL<li style="padding: 2px;">Unicode<li style="background-color: #d9ead3; padding: 2px;">Base64</div>

Accessing the client certificate from App Service.

If you are using ASP.NET and configure your app to use client certificate authentication, the certificate will be available through the `HttpRequest.ClientCertificate` property. For other application stacks, the client cert will be available in your app

through a base64 encoded value in the "X-ARR-ClientCert" request header. Your application can create a certificate from this value and then use it for authentication and authorization purposes in your application.

References:

<https://docs.microsoft.com/en-us/azure/app-service/app-service-web-configure-tls-mutual-auth>

QUESTION 8

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-AzureRmVMOSDisk`.
- 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



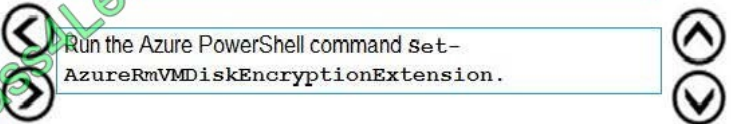
Correct Answer:

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-AzureRmVMOSDisk`.
- 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 9

You need to meet the security requirements for the E-Commerce Web App. Which two steps should you take? Each correct answer presents part of the solution. NOTE: Each correct selection is worth one point.

- A. Create an Azure AD service principal.
- B. Enable Managed Service Identity (MSI) on the E-Commerce Web App.
- C. Add a policy to the Azure Key Vault to grant access to the E-Commerce Web App.
- D. Update the E-Commerce Web App with the service principal's client secret.

Correct Answer: BC

Scenario: E-commerce application sign-ins must be secured by using Azure App Service authentication and Azure Active Directory (AAD). A managed identity from Azure Active Directory allows your app to easily access other AAD-protected resources such as Azure Key Vault.

References: <https://docs.microsoft.com/en-us/azure/app-service/overview-managed-identity>

QUESTION 10

HOTSPOT

You need to update the order workflow to address the issue when calling the Printer API App. 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:

```
“print_label”:{  
  “type”：“Http”,  
  “inputs”:{  
    “method”：“POST”,  
    “url”：“https://www.cohowinery.com/printer/printlabel”,  
    “retriyPolicy”:{  
      “type”：“
```

default
none
fixed
exponential

```
“interval”：“
```

PT10S
PT30S
PT60S
PT1D

```
“count”:
```

5
10
30

```
  }  
}  
}
```

Correct Answer:

```

“print_label”:{
  “type”：“Http”,
  “inputs”:{
    “method”：“POST”,
    “url”：“https://www.cohowinery.com/printer/printlabel”,
    “retriyPolicy”:{
      “type”：“

```

default
none
fixed
exponential

```

“interval”：“

```

PT10S
PT30S
PT60S
PT1D

```

“count”：

```

5
10
30

```

}
}
}

```

Box 1: Fixed

To specify that the action or trigger waits the specified interval before sending the next request, set the to fixed.

Box 2: PT10S

Box 3: 5

Scenario: Calls to the Printer API App fail periodically due to printer communication timeouts.

Printer communication timeouts occur after 10 seconds. The label printer must only receive up to 5 attempts within one minute.

QUESTION 11

HOTSPOT

You plan to deploy a new application to a Linux virtual machine (VM) that is hosted in Azure.

The entire VM must be secured at rest by using industry-standard encryption technology to address organizational security and compliance requirements.

You need to configure Azure Disk Encryption for the VM.

How should you complete the Azure CLI commands? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Hot Area:

Answer Area

```
az provider register -n Microsoft.KeyVault
resourcegroup= "myResourceGroup"
az group create - -name $resourcegroup - -location westus
keyvault name=myvaultname$RANDOM
```

```
az  create\
```

vm
keyvault
keyvault key
vm encryption

```
- -name $keyvault_name \
- -resource -group $resourcegroup\
- -location eastus \
- -enabled-for-disk-encryption True
```

```
az  create\
```

vm
keyvault
keyvault key
vm encryption

```
- -vault-name $keyvault_name\
- -name Name1 \
- -protection software
```

```
az  create\
```

vm
keyvault
keyvault key
vm encryption

```
- -resource -group $resourcegroup \
- -name Name2 \
- -image Canonical:UbuntuServer:16.04=LTS:latest \
- -admin-username azureuser \
- -generate-ssh-keys \
- -data-disk-sizes-gb 5
```

```
az  create\
```

vm
keyvault
keyvault key
vm encryption

```
- -resource-group $resourcegroup \
- -name Name2 \
- -disk-encryption-keyvault $keyVault_name \
- -key-encryption-key Name1 \
- -volume-type
```

<input type="text"/>
all
data
os

Correct Answer:

Answer Area

```
az provider register -n Microsoft.KeyVault
resourcegroup= "myResourceGroup"
az group create - -name $resourcegroup - -location westus
keyvault name=myvaultname$RANDOM
```

```
az  create\
```

vm
keyvault
keyvault key
vm encryption

```
- -name $keyvault_name \
- -resource -group $resourcegroup\
- -location eastus \
- -enabled-for-disk-encryption True
```

```
az  create\
```

vm
keyvault
keyvault key
vm encryption

```
- -vault-name $keyvault_name\
- -name Name1 \
- -protection software
```

```
az  create\
```

vm
keyvault
keyvault key
vm encryption

```
- -resource -group $resourcegroup \
- -name Name2 \
- -image Canonical:UbuntuServer:16.04=LTS:latest \
- -admin-username azureuser \
- -generate-ssh-keys \
- -data-disk-sizes-gb 5
```

```
az  create\
```

vm
keyvault
keyvault key
vm encryption

```
- -resource-group $resourcegroup \
- -name Name2 \
- -disk-encryption-keyvault $keyVault_name \
- -key-encryption-key Name1 \
- -volume-type
```

<input type="text"/>
all
data
os

Box 1: keyvault

Create an Azure Key Vault with `az keyvault create` and enable the Key Vault for use with disk encryption. Specify a unique Key Vault name for `keyvault_name` as follows:

```
keyvault_name=myvaultname$RANDOM
```

```
az keyvault create \  
--name $keyvault_name \  
--resource-group $resourcegroup \  
--location eastus \  
--enabled-for-disk-encryption True
```

Box 2: keyvault key

The Azure platform needs to be granted access to request the cryptographic keys when the VM boots to decrypt the virtual disks. Create a cryptographic key in your Key Vault with `az keyvault key create`. The following example creates a key

named `myKey`:

```
az keyvault key create \  
--vault-name $keyvault_name \  
--name myKey \  
--protection software
```

Box 3: vm

Create a VM with `az vm create`. Only certain marketplace images support disk encryption. The following example creates a VM named `myVM` using an Ubuntu 16.04 LTS image:

```
az vm create \  
--resource-group $resourcegroup \  
--name myVM \  
--image Canonical:UbuntuServer:16.04-LTS:latest \  
--admin-username azureuser \  
--generate-ssh-keys \  
--generate-ssh-keys
```

Box 4: vm encryption

Encrypt your VM with `az vm encryption enable`:

```
az vm encryption enable \  
--resource-group $resourcegroup \  
--generate-ssh-keys
```

```
--name myVM \  
--disk-encryption-keyvault $keyvault_name \  
--key-encryption-key myKey \  
--volume-type all
```

Note: seems to be an error in the question. Should have enable instead of create.

Box 5: all

Encrypt both data and operating system.

References:

<https://docs.microsoft.com/bs-latn-ba/azure/virtual-machines/linux/encrypt-disks>

QUESTION 12

DRAG DROP A company backs up all manufacturing data to Azure Blob Storage. Admins move blobs from hot storage to archive tier storage every month. You must automatically move blocks to Archive tier after they have not been accessed for 180 days. The path for any item that is not archived must be placed in an existing queue. This operation must be performed automatically once a

month. You set the value of TierAgeInDays to 180.

How should you configure the Logic App? To answer, drag the appropriate triggers or action blocks to the correct trigger or action slots. Each trigger or action block 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:

Triggers and Action Blocks

Insert Entity

*Table: processing

*Entity: Path

Show advanced options

Tier blob

If blob is older than the defined value, tier it to Cool or Archive tier

*Blob path: Path

*Blob Tier: Archive

When there are messages in a queue

*Queue Name: processing

Connected to table/storage/account/Connection. Change connection.

Recurrence

*Interval: 1

*Frequency: Month

Answer Area

↓

Set tier age variable

↓

List blobs

↓

For each

Scan all blobs in this folder

* Select an item from the previous block

value

✓ if true

✗ if false

Add an action

Add an action

Add an action

www.Pass4Lead.com

Correct Answer:

Triggers and Action Blocks

When there are messages in a queue

* Queue Name:

Show advanced options ▾

Connected to tableStorageAccountConnection. [Change connection.](#)

Answer Area

Recurrence

* Interval: * Frequency:

Show advanced options ▾

Set tier age variable

List blobs

For each

Scan all blobs in this folder

* Select an item from the previous block:

Insert Entity

* Table:

* Entity:

Show advanced options ▾

if true

Tier blob

if blob is older than the defined value, tier it to Cool or Archive tier

* Blob path:

* Blob Tier:

if false

 Add an action  Add an action
 Add an action

www.Pass4Lead.com

Box 1: Recurrence Box 2: Insert Entity Box 3 (if true): Tier Blob Box 4: (if false):

Leave blank.

References:

<https://docs.microsoft.com/en-us/azure/logic-apps/logic-apps-perform-data-operations>

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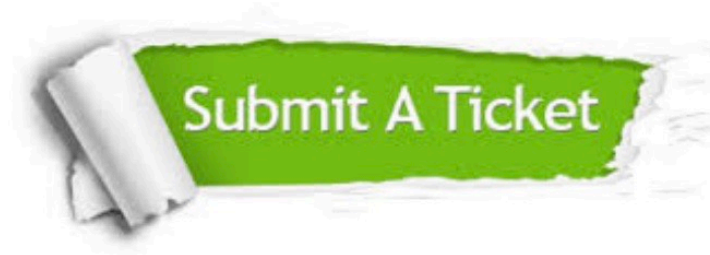
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