



AZ-203^{Q&As}

Developing Solutions for Microsoft Azure

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QUESTION 1

HOTSPOT

You are developing a ticket reservation system for an airline.

The storage solution for the application must meet the following requirements:

Ensure at least 99/99% availability and provide low latency.

Accept reservations even in network outages or other unforeseen failures

Process reservations in the exact sequence as reservation are submitted to minimize overbooking or selling the same seat to multiple travelers.

Allow simultaneous and out-of-order reservations with a maximum five-second tolerance window.

You provision a resource group named `airlineResourceGroup` in the Azure South-Central US region.

You need to provision a SQL API Cosmos DB account to support the app.

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

```
resourceGroupName= 'airlineResourceGroup'  
name= 'docdb-airline-reservations'  
databaseName=' docdb-tickets-database'  
collectionName=' docdb-tickets-collection'
```

consistencyLevel=

▼
Strong
Eventual
ConsistentPrefix
BoundedStaleness

```
az cosmosdb create \  
  - -name $name \  
  --enable-virtual-network true \  
  --enable-automatic-failover true \  
  --kind 'GlobalDocumentDB' \  
  --kind 'MongoDB' \  
  - -resource-group $resourceGroupName \  
  - -max interval 5 \  
  --locations 'southcentralus'  
  --locations 'eastus'  
  --locations 'southcentralus=0 eastus=1 westus=2'  
  --locations 'southcentralus=0'  
  - -default-consistency-level = $consistencyLevel
```

▼
--enable-virtual-network true \ --enable-automatic-failover true \ --kind 'GlobalDocumentDB' \ --kind 'MongoDB' \ - -resource-group \$resourceGroupName \ - -max interval 5 \ --locations 'southcentralus' --locations 'eastus' --locations 'southcentralus=0 eastus=1 westus=2' --locations 'southcentralus=0'

▼
--locations 'southcentralus' --locations 'eastus' --locations 'southcentralus=0 eastus=1 westus=2' --locations 'southcentralus=0'

Correct Answer:



Answer Area

```
resourceGroupName= 'airlineResourceGroup'
name= 'docdb-airline-reservations'
databaseName=' docdb-tickets-database'
collectionName=' docdb-tickets-collection'
```

consistencyLevel=

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```
az cosmosdb create \
  --name $name \
```

--enable-virtual-network true \
--enable-automatic-failover true \
--kind 'GlobalDocumentDB' \
--kind 'MongoDB' \

```
- --resource-group $resourceGroupName \
- --max interval 5 \
```

--locations 'southcentralus'
--locations 'eastus'
--locations 'southcentralus=0 eastus=1 westus=2'
--locations 'southcentralus=0'

```
- --default-consistency-level = $consistencyLevel
```

Box 1: Strong

Strong consistency offers a linearizability guarantee. The reads are guaranteed to return the most recent committed version of an item. A client never sees an uncommitted or partial write. Users are always guaranteed to read the latest committed write.

" Process reservations in the exact sequence as reservation are submitted to minimize overbooking or selling the same seat to multiple travelers."

Box 2: Enable-automatic-failover

For multi-region Cosmos accounts that are configured with a single-write region, enable automatic-failover by using Azure CLI or Azure portal. After you enable automatic failover, whenever there is a regional disaster, Cosmos DB will



automatically failover your account.

" Accept reservations even in network outages or other unforeseen failures"

Box 3: southcentralus

" You provision a resource group named airlineResourceGroup in the Azure South-Central US region."

References:

<https://docs.microsoft.com/en-us/azure/cosmos-db/consistency-levels>

<https://github.com/MicrosoftDocs/azure-docs/blob/master/articles/cosmos-db/high-availability.md>

QUESTION 2

DRAG DROP

You need to deploy a new version of the LabelMaker application.

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.

NOTE: Each correct selection is worth one point.

Select and Place:



Actions

Restart the cluster.

Create an alias of the image with the a new build number.

Build a new application image by using msbuild.

Create an alias of the image with the fully qualified path to the registry.

Build a new application image by using dockerfile.

Download the image to your local computer.

Log in to the registry and push image.

Answer Area

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Correct Answer:



Actions

- Restart the cluster.
- Create an alias of the image with the a new build number.
- Build a new application image by using msbuild.
-
-
- Download the image to your local computer.
-

Answer Area

- Build a new application image by using dockerfile.
- Create an alias of the image with the fully qualified path to the registry.
- Log in to the registry and push image.



Step 1: Build a new application image by using dockerfile Step 2: Create an alias if the image with the fully qualified path to the registry Before you can push the image to a private registry, you'llve to ensure a proper image name. This can be achieved using the docker tag command. For demonstration purpose, we'll use Docker's hello world image, rename it and push it to ACR. # pulls hello-world from the public docker hub \$ docker pull hello-world # tag the image in order to be able to push it to a private registry \$ docker tag hello-word /hello-world # push the image \$ docker push /hello-world Step 3: Log in to the registry and push image In order to push images to the newly created ACR instance, you need to login to ACR form the Docker CLI. Once logged in, you can push any existing docker image to your ACR instance. Scenario: Coho Winery plans to move the application to Azure and continue to support label creation. LabelMaker app Azure Monitor Container Health must be used to monitor the performance of workloads that are deployed to Kubernetes environments and hosted on Azure Kubernetes Service (AKS). You must use Azure Container Registry to publish images that support the AKS deployment. References: <https://thorsten-hans.com/how-to-use-a-private-azure-container-registry-with-kubernetes-9b86e67b93b6> <https://docs.microsoft.com/en-us/azure/container-registry/container-registry-tutorial-quick-task>

QUESTION 3

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 4

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

-
-
-
-
-
-

Answer Area

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

Correct Answer:

Code segments

-
-
-
-
-
-

Answer Area

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

QUESTION 5

You need to ensure that authentication events are triggered and processed according to the policy.

Solution: Create a new Azure Event Grid topic and add a subscription for the events.



Does the solution meet the goal?

A. Yes

B. No

Correct Answer: B

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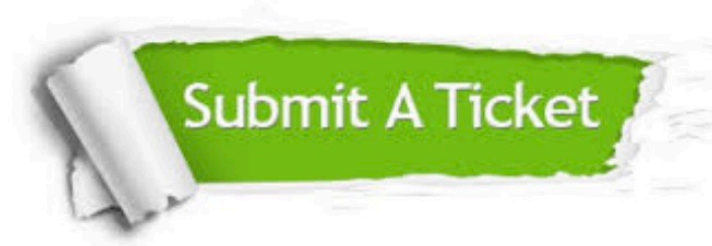
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