

Microsoft

AZ-203 Exam

Microsoft Developing Solutions for Microsoft Azure Exam

Version: 15.0

Question: 1

HOTSPOT

You need to retrieve all order line items sorted alphabetically by the city.

How should you complete the code? To answer select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

SELECT li.id AS lineitemid, li.price

FROM

	▼
Orders o	
Lineitems li	

JOIN

	▼
li	
o	

 IN

	▼
o.line_items	
li.line_items	
o.address	

ORDER BY

	▼
o.address.city	
li.address.city	
o.city	
li.city	

 ASC

Answer:

```

SELECT li.id AS lineitemid, li.price
FROM 

|              |
|--------------|
| ▼            |
| Orders o     |
| LineItems li |


JOIN 

|    |
|----|
| ▼  |
| li |
| o  |

 IN 

|               |
|---------------|
| ▼             |
| o.line_items  |
| li.line_items |
| o.address     |


ORDER BY 

|                 |
|-----------------|
| ▼               |
| o.address.city  |
| li.address.city |
| o.city          |
| li.city         |

 ASC

```

Explanation:

Scenario:

Order data is stored as nonrelational JSON and must be queried using Structured Query Language (SQL).
The Order data is stored in a Cosmos database.

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.

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



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.

Answer:

Explanation:

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've 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 <REGISTRY_NAME>/hello-world
```

```
# push the image
```

```
$ docker push <REGISTRY_NAME>/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 from 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

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.

Answer: BC

Explanation:

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. T

References:

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

Question: 4

You need to provision and deploy the order workflow.

Which three components should you include? Each correct answer presents part of the solution.

NOTE: Each correct selection is worth one point

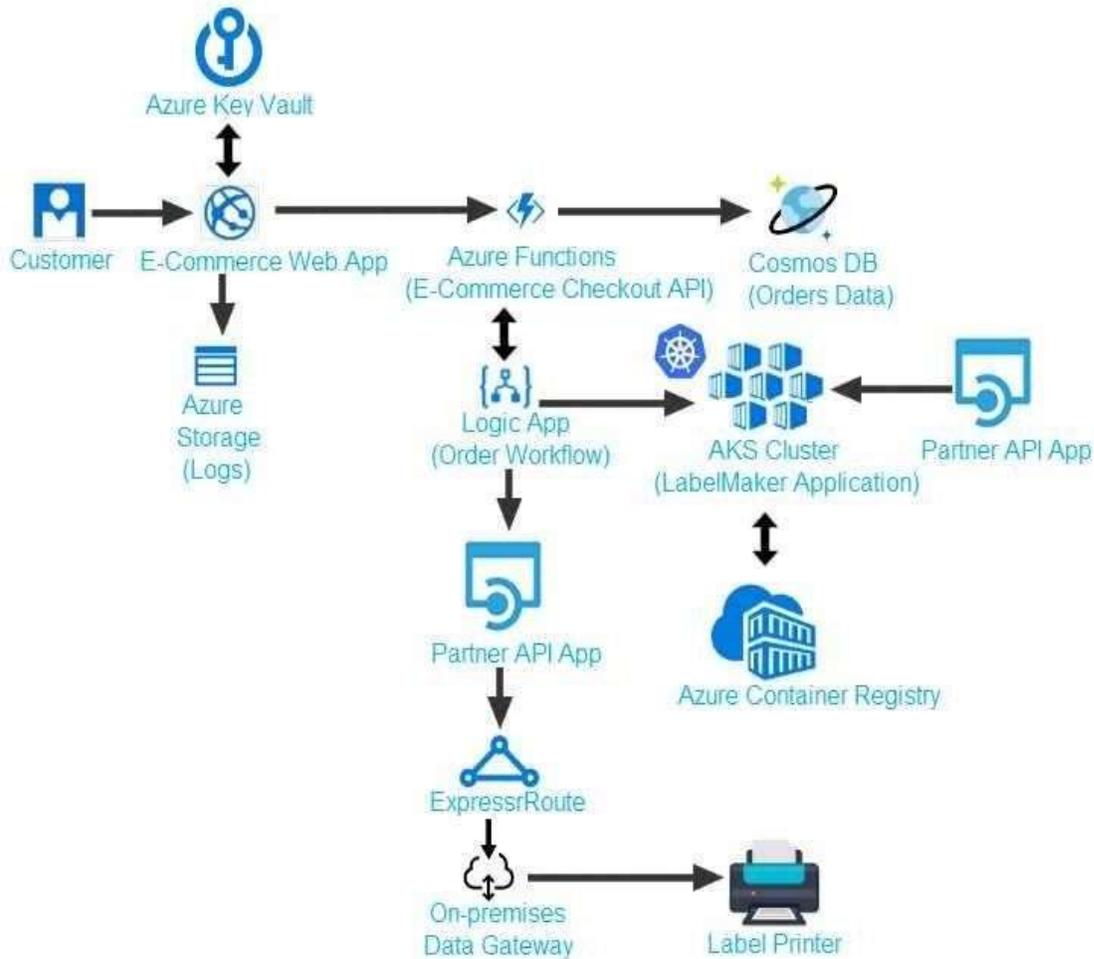
- A. Connections
- B. On-premises Data Gateway

- C. Workflow definition
- D. Resources
- E. Functions

Answer: BCE

Explanation:

Scenario: The order workflow fails to run upon initial deployment to Azure.



Question: 5

HOTSPOT

You need to ensure that you can deploy the LabelMaker application.

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

NOTE: Each correct selection is worth one point.

```

az  create --name  --location eastus
  group
  aks
  acr
  CohoWineryLabelMaker
  LabelMakerCluster

az  create --resource-group CohoWineryLabelMaker --name
  group
  aks
  acr
  LabelMakerCluster --node-count 5 --enable-addons
  monitoring
  http_application_routing

```

Answer:

```

az  create --name  --location eastus
  group
  aks
  acr
  CohoWineryLabelMaker
  LabelMakerCluster

az  create --resource-group CohoWineryLabelMaker --name
  group
  aks
  acr
  LabelMakerCluster --node-count 5 --enable-addons
  monitoring
  http_application_routing

```

Explanation:

Box 1: group

Create a resource group with the az group create command. An Azure resource group is a logical group in which Azure resources are deployed and managed.

The following example creates a resource group named myResourceGroup in the westeurope location.

```
az group create --name myResourceGroup --location westeurope
```

Box 2: CohoWineryLabelMaker

Use the resource group named, which is used in the second command.

Box 3: aks

The command az aks create, is used to create a new managed Kubernetes cluster.

Box 4: monitoring

Scenario: 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.

Question: 6

You need to troubleshoot the order workflow.

What should you do? Each correct answer presents part of the solution.

NOTE: Each correct selection is worth one point.

- A. Review the run history.
- B. Review the trigger history.
- C. Review the API connections.
- D. Review the activity log.

Answer: BD

Explanation:

Scenario: The order workflow fails to run upon initial deployment to Azure.

Deployment errors arise from conditions that occur during the deployment process. They appear in the activity log.

References:

<https://docs.microsoft.com/en-us/azure/azure-resource-manager/resource-group-audit>

Question: 7

You are developing a mobile instant messaging app for a company.

The mobile app must meet the following requirements:

- Support offline data sync.
- Update the latest messages during normal sync cycles.

You need to implement Offline Data Sync.

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

NOTE: Each correct selection is worth one point.

- A. Retrieve records from Offline Data Sync on every call to the PullAsync method.
- B. Retrieve records from Offline Data Sync using an Incremental Sync.
- C. Push records to Offline Data Sync using an Incremental Sync.
- D. Return the updatedAt column from the Mobile Service Backend and implement sorting by using the column.
- E. Return the updatedAt column from the Mobile Service Backend and implement sorting by the message id.

Answer: B, E

Explanation:

B: Incremental Sync: the first parameter to the pull operation is a query name that is used only on the client. If you use a non-null query name, the Azure Mobile SDK performs an incremental sync. Each time a pull operation returns a set of results, the latest updatedAt timestamp from that result set is stored in the SDK local system tables. Subsequent pull operations retrieve only records after that timestamp.

E (not D): To use incremental sync, your server must return meaningful updatedAt values and must also support sorting by this field. However, since the SDK adds its own sort on the updatedAt field, you cannot use a pull query that has its own orderBy clause.

References:

<https://docs.microsoft.com/en-us/azure/app-service-mobile/app-service-mobile-offline-data-sync>

Requirement	Option
Authentication	<div style="border: 1px solid black; padding: 2px;"> <div style="background-color: #f0f0f0; padding: 2px; display: flex; justify-content: space-between; align-items: center;"> ▼ </div> <div style="padding: 2px;"> <p>B2C</p> <p style="background-color: #f0f0f0;">B2B</p> <p>Self-service signup</p> <p>Organizational Units (OU)</p> </div> </div>
Login Auditing	<div style="border: 1px solid black; padding: 2px;"> <div style="background-color: #f0f0f0; padding: 2px; display: flex; justify-content: space-between; align-items: center;"> ▼ </div> <div style="padding: 2px;"> <p style="background-color: #f0f0f0;">Access review</p> <p>Risky sign-ins report</p> <p>Identity Protection</p> <p>Privileged Identity Management</p> </div> </div>

Explanation:

Box 1: B2B

Scenario: External partners must use their own credentials and authenticate with their organization's identity management solution.

Azure Active Directory (Azure AD) business-to-business (B2B) collaboration lets you securely share your company's applications and services with guest users from any other organization, while maintaining control over your own corporate data.

a. Work safely and securely with external partners, large or small, even if they don't have Azure AD or an IT department. A simple invitation and redemption process lets partners use their own credentials to access your company's resources. Developers can use Azure AD business-to-business APIs to customize the invitation process or write applications like self-service sign-up portals.

Box 2: Access Review

Scenario: External partner logins must be audited monthly for application use by a user account administrator to maintain company compliance.

Azure Active Directory (Azure AD) Access Reviews enable organizations to efficiently manage group memberships, access to enterprise applications, and role assignments.

Administrators can use Azure Active Directory (Azure AD) to create an access review for group members or users assigned to an application. Azure AD automatically sends reviewers an email that prompts them to review access.

References:

<https://docs.microsoft.com/en-us/azure/active-directory/b2b/what-is-b2b>

Question: 10

DRAG DROP

You have a web app named MainApp. You are developing a triggered App Service background task by using the WebJobs SDK. This task automatically invokes a function code whenever any new data is received in a queue.

You need to configure the services.

Which service should you use for each scenario? To answer, drag the appropriate services to the correct

scenarios. Each service 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.

Services	Scenario	Service
Logic Apps	Process a queue data item.	<input type="text"/>
WebJobs	Manage all code segments from the same DevOps environment.	<input type="text"/>
Flow		

Answer:

Scenario	Service
Process a queue data item.	WebJobs
Manage all code segments from the same DevOps environment.	Flow

Explanation:

Box 1: WebJobs

A WebJob is a simple way to set up a background job, which can process continuously or on a schedule. WebJobs differ from a cloud service as it gives you get less fine-grained control over your processing environment, making it a more true PaaS service.

Box 2: Flow

Incorrect Answers:

Azure Logic Apps is a cloud service that helps you schedule, automate, and orchestrate tasks, business processes, and workflows when you need to integrate apps, data, systems, and services across enterprises or organizations. Logic Apps simplifies how you design and build scalable solutions for app integration, data integration, system integration, enterprise application integration (EAI), and business-to-business (B2B) communication, whether in the cloud, on premises, or both.

References:

<https://code.msdn.microsoft.com/Processing-Service-Bus-84db27b4>