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Questions & Answers
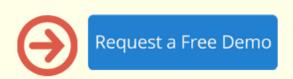## (Free - Demo Version)

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Developing Solutions for Microsoft Azure Exam

Questions & Answers
Demo

Version: 7.0

Case Study: 1

Coho Winery

Case Study:

Overview

This is a case study. **Case studies are not timed separately. You can use as much exam time as you would like to complete each case.** However, there may be additional case studies and sections on this exam. You must manage your time to ensure that you are able to complete all questions included on this exam in the time provided.

To answer the questions included in a case study, you will need to reference infonnation that is provided in the case study. Case studies might contain exhibits and other resources that provide more information about the scenario that is described in the case study. Each question is independent of the other questions in this case study.

At the end of this case study, a review screen will appear. This screen allows you to review your answers and to make changes before you move to the next section of the exam. After you begin a new section, you cannot return to this section.

To start the case study

To display the first question in this case study, dick the **Next** button Use the buttons in the left pane to explore the content of the case study before you answer the questions. Clicking these buttons displays information such as business requirements, existing environment, and problem statements. If the case study has an **All Information** tab, note that the information displayed is identical to the information displayed on the subsequent tabs. When you are ready to answer a question, click the Question button to return to the question.

LabelMaker app

Coho Winery produces, bottles, and distributes a variety of wines globally. You are a developer implementing highly scalable and resilient applications to support online order processing by using Azure solutions.

Coho Winery has a LabelMaker application that prints labels for wine bottles. The application sends data to several printers. The application consists of five modules that run independently on virtual machines (VMs). Coho Winery plans to move the application to Azure and continue to support label creation.

External partners send data to the LabelMaker application to include artwork and text for custom label designs.

Requirements

Data

You identify the following requirements for data management and manipulation:

• Order data is stored as nonrelational JSON and must be queried using Structured Query Language (SQL).

• Changes to the Order data must reflect immediately across all partitions. All reads to the Order data must fetch the most recent writes.

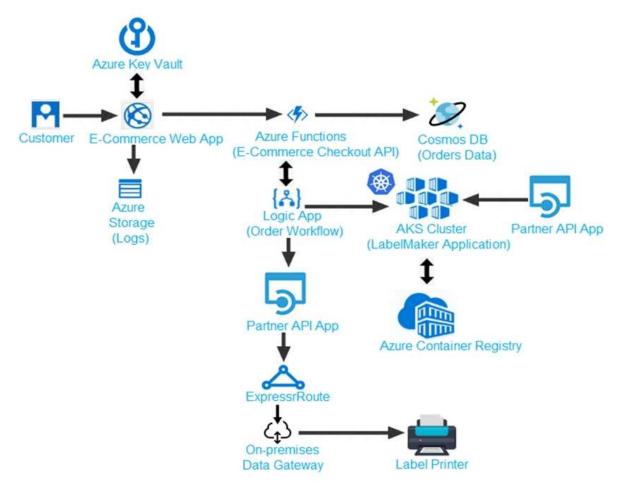**Security**

You have the following security requirements:

• Users of Coho Winery applications must be able to provide access to documents, resources, and applications to external partners.

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

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

• Storage of e-commerce application settings must be maintained in Azure Key Vault.

• E-commerce application sign-ins must be secured by using Azure App Service authentication and Azure Active Directory (AAD).

• Conditional access policies must be applied at the application level to protect company content.

• The LabelMaker application must be secured by using an AAD account that has full access to all namespaces of the Azure Kubernetes Service (AKS) cluster.

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.

Architecture

Issues

Calls to the Printer API App fall 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

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

Order.Json

Relevant portions oi the app files are shown below. Line numbers are included for reference only. The JSON file contains a representation of the data for an order that includes a single item.

```
01 {
02   "id : 1,
03   "customers" : [
04   {
05      "familyName" : "Doe",
06      "givenName" :   "John",
07      "customerid" :   5
08   }
09   ],
10   "line"_items" : [
11 {
12      "fulfillable_quantity" : 1,
13   "id" : 6,
14   "price" : "199.99",
15   "product_id" : 7513594,
16   "quantity": 1,
17   "requires_shipping" : true,
18   "sku" : "SFC-342-N" ,
19 "title" : "Surface Go",
20   "vendor" : "Microsoft" ,
21   "name" : "Surface Go - 8GB",
22   "taxable" : true,
```

```
23   "tax"_lines" : [
24   {
25    "title" : "State Tax",
26   "price" : "3.98",
27   "rate" : 0.06
28   }
29 ],
30   "total_discount" : "5.00"
31   "discount_allocations" : [
32   {
33    "amount" : "5.00",
34    "discount_application_index" : 2
35      }
36     ]
37    }
38   ],
39 "address" : {
40 "state" : "NY",
41 "country" : "Manhattan",
42   "city" : "NY"
43     }
44     }
```
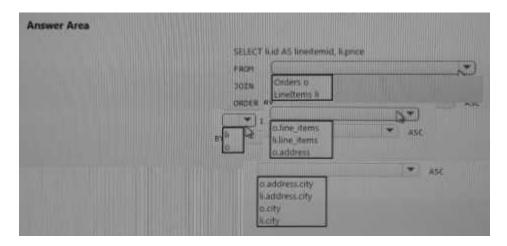

Question: 1

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.

Answer:

Orders

O_line_items

O_city

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   **Answer Area**

| 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:

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. |

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 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

**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 Wet) App.
D. Update the E-Commerce Web App with the service principal's client secret.

Answer: D

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. Workflow definition

B. Connections

C. Resources

D. Functions

E. On-premises Data Gateway

<div style="text-align: right">

Answer: C, D, E

</div>

Question: 5

Note: This question is part of a series of questions that present the same scenario. Each question in the series contains a unique solution.

Determine whether the solution meets the stated goals.

You need to meet the LabelMaket application

Solution; Create a conditional access policy and assign it to the Azure Kubernetes service cluster.

Does the solution meet the goal?

A. Yes

B. No

<div style="text-align: right">

Answer: B

</div>

Explanation:
Scenario: The LabelMaker applications must be secured by using an AAD account that has full access to all namespaces of the Azure Kubernetes Service (AKS) cluster.
Before an Azure Active Directory account can be used with the AKS cluster, a role binding or cluster role binding needs to be created.
References:
https://docs.microsoft.com/en-us/azure/aks/aad-integration