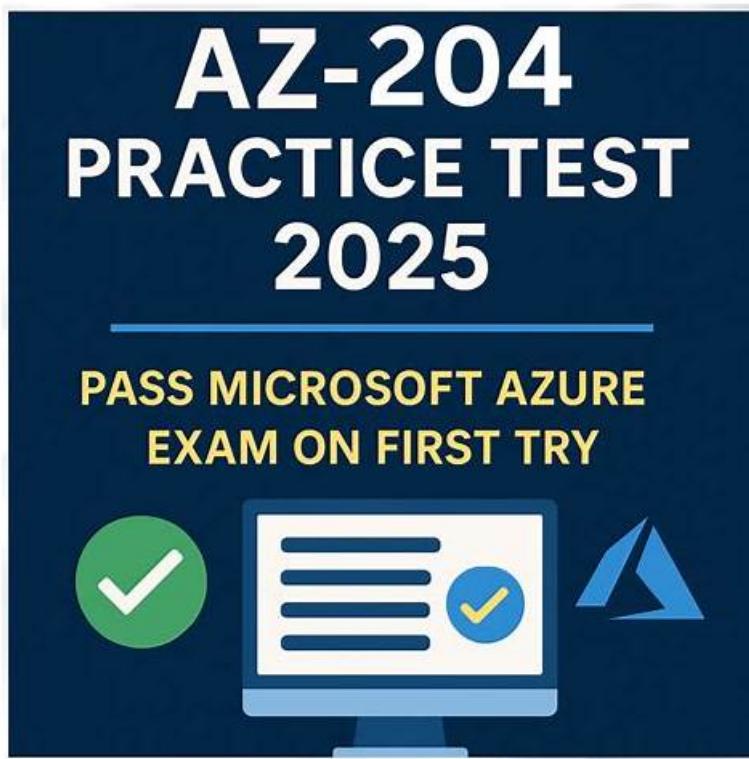


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The Developing Solutions for Microsoft Azure certification exam is intended for developers who have a good understanding of programming languages, such as C#, Python, and JavaScript, and have experience in developing cloud-based applications. It is also suitable for individuals who have experience in using Azure services and want to improve their skills in developing solutions that leverage Azure's capabilities. Passing the Microsoft AZ-204 Exam demonstrates that the developer has the necessary skills and knowledge to implement cloud-based solutions using Azure services and is recognized as a certified Azure developer.

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Exam Pattern

During the Microsoft AZ-204 exam, the applicants will have 180 minutes to clear 40 to 60 multiple-choice questions. To complete the test within the given limit, one must start polishing time management skills beforehand. It is also important to mention that the exam is available in Simplified Chinese, English, Korean, and Japanese. The voucher will cost you \$165. AZ-204 exam is scheduled via Pearson VUE.

Microsoft AZ-204 Exam is intended for developers who have a good understanding of Azure platform services and are familiar with

developing applications using Microsoft Azure. AZ-204 exam tests a candidate's ability to design and implement solutions that leverage Azure services, including compute, storage, networking, and security. It also tests their ability to develop, deploy, and manage Azure-based applications.

Microsoft Developing Solutions for Microsoft Azure Sample Questions (Q369-Q374):

NEW QUESTION # 369

You are a developer for a software as a service (SaaS) company that uses an Azure Function to process orders.

The Azure Function currently runs on an Azure Function app that is triggered by an Azure Storage queue.

You are preparing to migrate the Azure Function to Kubernetes using Kubernetes-based Event Driven Autoscaling (KEDA).

You need to configure Kubernetes Custom Resource Definitions (CRD) for the Azure Function.

Which CRDs should you configure? To answer, drag the appropriate CRD types to the correct locations. Each CRD 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.

CRD types	Setting	CRD type
Secret	Azure Function code	
Deployment	Polling interval	
ScaledObject	Azure Storage connection string	
TriggerAuthentication		

Answer:

Explanation:

CRD types	Setting	CRD type
Secret	Azure Function code	
Deployment	Polling interval	Deployment
ScaledObject	Azure Storage connection string	ScaledObject
TriggerAuthentication		Secret

Explanation

Setting	CRD type
Azure Function code	Deployment
Polling interval	ScaledObject
Azure Storage connection string	Secret

Explanation:

Box 1: Deployment

To deploy Azure Functions to Kubernetes use the `func kubernetes deploy` command. This command has several attributes that directly control how our app scales, once it is deployed to Kubernetes.

Box 2: ScaledObject

With `--polling-interval`, we can control the interval used by KEDA to check Azure Service Bus Queue for messages.

Example of ScaledObject with polling interval

```
apiVersion: keda.k8s.io/v1alpha1
```

```
kind: ScaledObject
```

```
metadata:
```

```
  name: transformer-fn
```

```
  namespace: tt
```

```
  labels:
```

```
  deploymentName: transformer-fn
```

```
spec:
```

```
  scaleTargetRef:
```

```
    deploymentName: transformer-fn
```

```
  pollingInterval: 5
```

```
  minReplicaCount: 0
```

```
  maxReplicaCount: 100
```

Box 3: Secret

Store connection strings in Kubernetes Secrets.

Example: to create the Secret in our demo Namespace:

```
# create the k8s demo namespace
```

```
kubectl create namespace tt
```

```
# grab connection string from Azure Service Bus
```

```
KEDA_SCALER_CONNECTION_STRING=$(az servicebus queue authorization-rule keys list \
```

```
-g $RG_NAME \
```

```
--namespace-name $SBN_NAME \
```

```
--queue-name inbound \
```

```
-n keda-scaler \
```

```
--query "primaryConnectionString" \
```

```
-o tsv)
```

```
# create the kubernetes secret
```

```
kubectl create secret generic tt-keda-auth \
```

```
--from-literal KedaScaler=$KEDA_SCALER_CONNECTION_STRING \
```

```
--namespace tt
```

Reference:

<https://www.thinktecture.com/en/kubernetes/serverless-workloads-with-keda/>

NEW QUESTION # 370

You are developing a C++ application that compiles to a native application named `process.exe`. The application accepts images as input and returns images in one of the following image formats: GIF, PNG, or JPEG.

You must deploy the application as an Azure Function.

You need to configure the function and host json files.

How should you complete the json files? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

```
function.json
```

```
{  
  "type": "http",  
  "platform": "gcm",  
  "datatype": "stream",  
  "path": "process.exe",  
  "direction": "out",  
  "name": "result"  
}
```

```
host.json
```

```
Microsoft  
  "customHandler": { "description": {  
    "languageWorker": { "path": {  
      "extensions": { "worker": {  
        "extensionBundle": {  
          "defaultExecutablePath": "process.exe"  
        },  
        "enableForwardingHttpRequest": true  
      },  
      "enableForwardingHttpRequest": false  
    }  
  }  
}
```

Answer:

Explanation:

```
function.json
```

```
{  
  "type": "http"  
  "platform": "gcm"  
  "datatype": "stream"  
  "path": "process.exe"
```

```
  "direction": "out",  
  "name": "result"  
}  
host.json
```

```
  "customHandler": { "description": {  
    "languageWorker": { "path": {  
      "extensions": { "worker": {  
        "extensionBundle": {
```

```
        "defaultExecutablePath": "process.exe"  
      },
```

```
      "enableForwardingHttpRequest": true  
      "enableForwardingHttpRequest": false
```

```
}
```

Explanation

```

  "type": "http"
  "platform": "gcm"
  "datatype": "stream"
  "path": "process.exe"

  "direction": "out",
  "name" : "result"
}

host.json

"customHandler": { "description": {
  "languageWorker": { "path": {
    "extensions": { "worker": {
      "extensionBundle": {

        "defaultExecutablePath": "process.exe"
      }
    }
  }
}
"enableForwardingHttpRequest": true
"enableForwardingHttpRequest": false
}

```

NEW QUESTION # 371

You need to add code at line PC26 of Processing.cs to ensure that security policies are met.

How should you complete the code that you will add at line PC26? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

```

var resolver = new KeyVaultKeyResolver(_keyVaultClient);
var keyBundle = await _keyVaultClient.GetKeyAsync("...", "...");

var key = keyBundle.Key;
var key = keyBundle.KeyIdentifier.Identifier;
var key = await resolver.ResolveKeyAsync("encrypt", null);
var key = await resolver.ResolveKeyAsync(keyBundle.KeyIdentifier.Identifier, CancellationToken.None);

var x = keyBundle.Managed;
var x = AuthenticationScheme.SharedKey;
var x = new BlobEncryptionPolicy(key, resolver);
var x = new DeleteRetentionPolicy {Enabled = key.Kid != null};

cloudBlobClient.AuthenticationScheme = x;
cloudBlobClient.DefaultRequestOptions.RequireEncryption = x;
cloudBlobClient.DefaultRequestOptions.EncryptionPolicy = x;
cloudBlobClient.SetServiceProperties(new ServiceProperties(deleteRetentionPolicy:x));

```

Answer:

Explanation:

```

var resolver = new KeyVaultKeyResolver(_keyVaultClient);
var keyBundle = await _keyVaultClient.GetKeyAsync("...", "...");

var key = keyBundle.Key;
var key = keyBundle.KeyIdentifier.Identifier;
var key = await resolver.ResolveKeyAsync("encrypt", null);
var key = await resolver.ResolveKeyAsync(keyBundle.KeyIdentifier.Identifier, CancellationToken.None);

var x = keyBundle.Managed;
var x = AuthenticationScheme.SharedKey;
var x = new BlobEncryptionPolicy(key, resolver);
var x = new DeleteRetentionPolicy {Enabled = key.Kid != null};

cloudBlobClient.AuthenticationScheme = x;
cloudBlobClient.DefaultRequestOptions.RequireEncryption = x;
cloudBlobClient.DefaultRequestOptions.EncryptionPolicy = x;
cloudBlobClient.SetServiceProperties(new ServiceProperties(deleteRetentionPolicy:x));

```

Reference:

<https://github.com/Azure/azure-storage-net/blob/master/Samples/GettingStarted/EncryptionSamples/KeyRotation/Program.cs>

Topic 6, Coho Winery

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 SQL.

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

Requirements. 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.

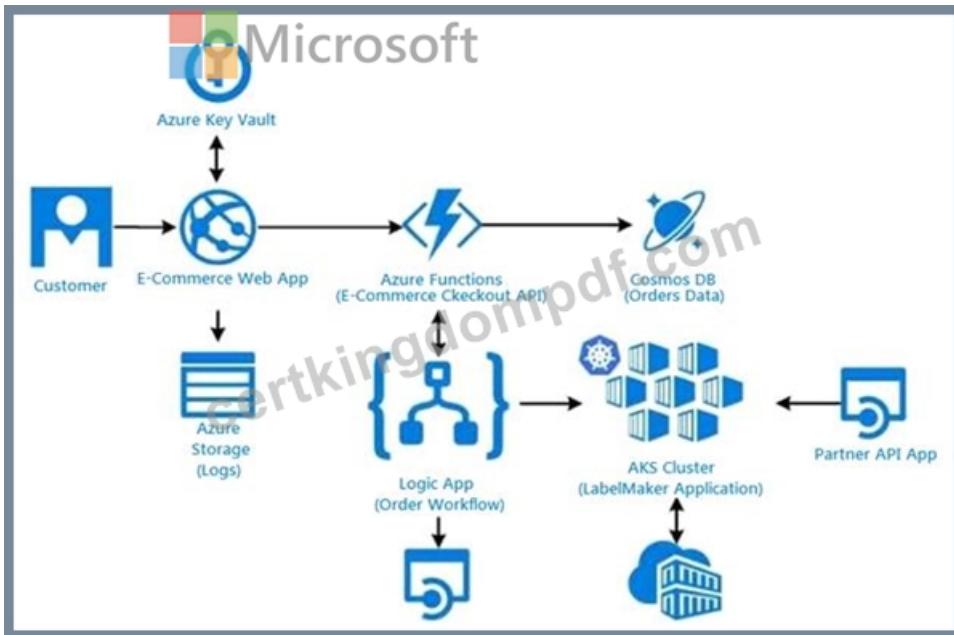
Requirements

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 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.

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

Order.json

Relevant portions of the app files are shown below. Line numbers are included for reference only.

This JSON file contains a representation of the data for an order that includes a single item.

Order.json

```
01 {
02   "id" : 1,
03   "customers" : [
04     {
05       "familyName" : "Doe",
06       "givenName" : "John",
07       "customerid" : 5
08     }
09   ],
10   "line_items" : [
11     {
12       "fillable_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     "state": "Manhattan" ,
42     "city" : "NY"
43   }
44 }
```



You develop a news and blog content delivery app for Windows devices.

A notification must arrive on a user's device when there is a new article available for them to view.

You need to implement push notifications.

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

NOTE: Each correct selection is worth one point.

Answer Area



```
string notificationHubName = "contoso_hub";
string notificationHubConnection = "connection_string";
hub=
```

NotificationHubClient
NotificationHubClientSettings
NotificationHubJob
NotificationDetails

NotificationHubClient
NotificationHubClientSettings
NotificationHubJob
NotificationDetails

GetInstallation
CreateClientFromConnectionString
CreateOrUpdateInstallation
PatchInstallation

```
(notificationHubConnection, notificationHubName);
string windowsToastPayload =
@"<toast><visual><binding template=""ToastText01""><text id=""1"">" +
@"New item to view" + @"</text></binding></visual></toast>";
try
{
var result=
    await hub. (windowsToastPayload);
    SendWindowsNativeNotificationAsync
    SubmitNotificationHubJobAsync
    ScheduleNotificationAsync
    SendAppleNativeNotificationAsync
    . . .
}
catch (System.Exception ex)
{
    . . .
}
. . .
```

Answer:

Explanation:

Answer Area



```
string notificationHubName = "contoso_hub";
string notificationHubConnection = "connection_string";
hub= NotificationHubClient
NotificationHubClientSettings
NotificationHubJob
NotificationDetails
NotificationHubClient
NotificationHubClientSettings
NotificationHubJob
NotificationDetails
GetInstallation
CreateClientFromConnectionString
CreateOrUpdateInstallation
PatchInstallation
(notificationHubConnection, notificationHubName);
string windowsToastPayload =
@""<toast><visual><binding template=""ToastText01""><text id=""1"">" +
@""New item to view" + @""</text></binding></visual></toast>";
try
{
var result=
    await hub.
        SendWindowsNativeNotificationAsync
        (windowsToastPayload);
        . . .
}
catch (System.Exception ex)
{
    . . .
}
. . .
```

Reference:

<https://docs.microsoft.com/en-us/azure/notification-hubs/notification-hubs-push-notification-registration-management>
<https://github.com/MicrosoftDocs/azure-docs/blob/master/articles/app-service-mobile/app-service-mobile-windows-store-dotnet-get-started-push.md>

NEW QUESTION # 373

A web service provides customer summary information for e-commerce partners. The web service is implemented as an Azure Function app with an HTTP trigger. Access to the API is provided by an Azure API Management instance. The API Management instance is configured in consumption plan mode. All API calls are authenticated by using OAuth. API calls must be cached. Customers must not be able to view cached data for other customers.

You need to configure API Management policies for caching.

How should you complete the policy statement?

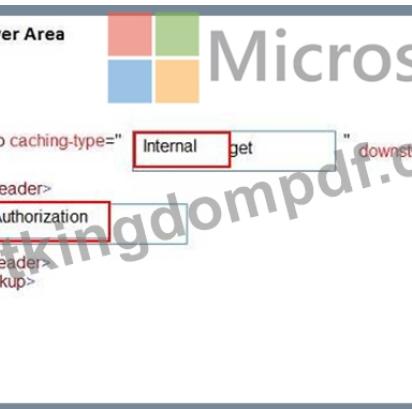
Targets	Answer Area
Expect	<policies> <inbound> <base /> <cache-lookup caching-type="
Public	<input type="text" value="Target"/> downstream-caching-type = "
Private	<input type="text" value="Target"/> " >
Internal	</var-by-header>
External	<input type="text" value="Target"/>
Authorization	</var-by-header> </cache-lookup> </inbound> </policies>



Answer:

Explanation:

Targets	Answer Area
Expect	<policies> <inbound> <base /> <cache-lookup caching-type="
Public	<input type="text" value="Internal"/> get downstream-caching-type = "
Private	<input type="text" value="Private"/> get " >
Internal	</var-by-header>
External	<input type="text" value="Authorization"/>
Authorization	</var-by-header> </cache-lookup> </inbound> </policies>



Reference:

<https://docs.microsoft.com/en-us/azure/api-management/api-management-caching-policies>

NEW QUESTION # 374

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