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Microsoft AZ-300

Microsoft Azure Architect Technologies (beta)



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Question Set 1

QUESTION 1

You plan to migrate an on-premises Hyper-V environment to Azure by using Azure Site Recovery. The Hyper-V environment is managed by using Microsoft System Center Virtual Machine Manager (VMM).

The Hyper-V environment contains the virtual machines in the following table:

Name	Operating system (OS)	OS disk size	BitLocker Drive Encryption (BitLocker) enabled on OS disks.	Generation
DC1	Windows Server 2016	500 GB	No	2
FS1	Ubuntu 16.04 LTS	200 GB	No	2
CA1	Windows Server 2012 R2	1 TB	Yes	1
SQL1	Windows Server 2016	200 GB	No	1

Which virtual machine can be migrated by using Azure Site Recovery?

- A. FS1
- B. CA1
- C. DC1
- D. SQL1

Correct Answer: D

Section: [none]

Explanation

Explanation/Reference:

References:

<https://docs.microsoft.com/en-us/azure/site-recovery/hyper-v-azure-support-matrix#azure-vm-requirements>

QUESTION 2

You have an on-premises network that you plan to connect to Azure by using a site-to-site VPN.

In Azure, you have an Azure virtual network named VNet1 that uses an address space of 10.0.0.0/16. VNet1 contains a subnet named Subnet1 that uses an address space of 10.0.0.0/24.

You need to create a site-to-site VPN to Azure.

Which four 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: More than one order of answer choices is correct. You will receive credit for any of the correct orders you select.

Select and Place:

Correct Answer:

Section: [none]

Explanation

Explanation/Reference:

QUESTION 3

You have an Azure subscription named Subscription1 that contains two Azure networks named VNet1 and VNet2. VNet1 contains a VPN gateway named VPNGW1 that uses static routing. There is a site-to-site VPN connection between your on-premises network and VNet1.

On a computer named Client1 that runs Windows 10, you configure a point-to-site VPN connection to VNet1.

You configure virtual network peering between VNet1 and VNet2. You verify that you can connect to VNet2 from the on-premises network. Client1 is unable to connect to VNet2.

You need to ensure that you can connect Client1 to VNet2.



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What should you do?

- A. Select **Allow gateway transit** on VNet1.
- B. Download and re-install the VPN client configuration package on Client1.
- C. Enable BGP on VPNGW1.
- D. Select **Allow gateway transit** on VNet2.

Correct Answer: B

Section: [none]

Explanation

Explanation/Reference:

References:

<https://docs.microsoft.com/en-us/azure/vpn-gateway/vpn-gateway-about-point-to-site-routing>

QUESTION 4

Your company has offices in New York and Los Angeles.

You have an Azure subscription that contains an Azure virtual network named VNet1. Each office has a site-to-site VPN connection to VNet1.

Each network uses the address spaces shown in the following table:

Location	IP address space
VNet1	192.168.0.0/20
New York	10.0.0.0/16
Los Angeles	10.10.0.0/16

You need to ensure that all Internet-bound traffic from VNet1 is routed through the New York office.

What should you do? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Hot Area:

Answer Area

In Azure, run:

	▼
New-AzureRmLocalNetworkGateway	
New-AzureRmVirtualNetworkGatewayConnection	
Set-AzureRmVirtualNetworkGatewayDefaultSite	

On a VPN device in the New York office, set the traffic selectors to:

	▼
0.0.0.0/0	
10.0.0.0/16	
192.168.0.0/20	

Correct Answer:

Answer Area

In Azure, run:

	▼
New-AzureRmLocalNetworkGateway	
New-AzureRmVirtualNetworkGatewayConnection	
Set-AzureRmVirtualNetworkGatewayDefaultSite	

On a VPN device in the New York office, set the traffic selectors to:

	▼
0.0.0.0/0	
10.0.0.0/16	
192.168.0.0/20	

Section: [none]

Explanation

Explanation/Reference:

QUESTION 5

You have a Microsoft SQL Server Always On availability group on Azure virtual machines.

You need to configure an Azure internal load balancer as a listener for the availability group.

What should you do?

- A. Create an HTTP health probe on port 1433.
- B. Set Session persistence to **Client IP**.
- C. Set Session persistence to **Client IP and protocol**.
- D. Enable Floating IP.

Correct Answer: D

Section: [none]

Explanation

Explanation/Reference:

References:

<https://docs.microsoft.com/en-us/azure/virtual-machines/windows/sql/virtual-machines-windows-portal-sql-alwayson-int-listener>

QUESTION 6

You set the multi-factor authentication status for a user named admin1@contoso.com to **Enabled**.

Admin1 accesses the Azure portal by using a web browser.

Which additional security verifications can Admin1 use when accessing the Azure portal?

- A. an app password, a text message that contains a verification code, and a verification code sent from the Microsoft Authenticator app
- B. a phone call, a text message that contains a verification code, and a notification or a verification code sent from the Microsoft Authenticator app
- C. a phone call, an email message that contains a verification code, and a text message that contains an app password
- D. an app password, a text message that contains a verification code, and a notification sent from the Microsoft Authenticator app

Correct Answer: B

Section: [none]

Explanation

Explanation/Reference:

References:




<https://docs.microsoft.com/en-us/azure/active-directory/authentication/concept-authentication-methods>

QUESTION 7

HOTSPOT

You have an Azure Active Directory (Azure AD) tenant that contains three global administrators named Admin1, Admin2, and Admin3.

The tenant is associated to an Azure subscription. Access control for the subscription is configured as shown in the Access control exhibit. (Click the Exhibit tab.)

+ Add
 Remove
 Roles
 Refresh
? Help

Name ⓘ


Type ⓘ

Role ⓘ

Scope ⓘ

Group by ⓘ

5 items (4 Users, 1 Service Principals)

<input type="checkbox"/>	NAME	TYPE	ROLE	SCOPE
	OWNER			
	Admin3 Admin3@contltd...	User	Owner ⓘ	Service administ... This resource ...

You sign in to the Azure portal as Admin1 and configure the tenant as shown in the Tenant exhibit. (Click the **Exhibit** tab.)

 Save  Discard

*Name

Contoso|

Country or region

United States

Location

United States datacenters

Notification language

English



Global admin can manage Azure Subscriptions and Management Groups

YES

NO

Directory ID

a8ccb916-31f3-4582-b9b7-854f413d7177



Technical contact

Global privacy contact

Privacy statement URL

For each of the following statement, select Yes if the statement is true. Otherwise, select No.

NOTE: Each correct selection is worth one point.

Hot Area:

Correct Answer:

Section: [none]

Explanation

Explanation/Reference:

QUESTION 8

You have an Azure Active Directory (Azure AD) tenant.

All administrators must enter a verification code to access the Azure portal.

You need to ensure that the administrators can access the Azure portal only from your on-premises network.

What should you configure?

- A. the default for all the roles in Azure AD Privileged Identity Management
- B. an Azure AD Identity Protection user risk policy
- C. an Azure AD Identity Protection sign-in risk policy
- D. the multi-factor authentication service settings

Correct Answer: D

Section: [none]

Explanation

Explanation/Reference:

References:

<https://docs.microsoft.com/en-us/azure/active-directory/authentication/howto-mfa-mfasettings>

QUESTION 9

You have an Azure subscription named Subscription1 that contains a virtual network named VNet1. VNet1 is in a resource group named RG1.

Subscription1 has a user named User1. User1 has the following roles:

- Reader
- Security Admin
- Security Reader

You need to ensure that User1 can assign the Reader role for VNet1 to other users.

What should you do?

- A. Assign User1 the Owner role for VNet1.
- B. Assign User1 the Network Contributor role for VNet1.
- C. Remove User1 from the Security Reader and Reader roles for Subscription1. Assign User1 the Contributor role for Subscription1.
- D. Remove User1 from the Security Reader and Reader roles for Subscription1.

Correct Answer: A

Section: [none]

Explanation

Explanation/Reference:

QUESTION 10

HOTSPOT

You are creating an app that uses Event Grid to connect with other services. Your app's event data will be sent to a serverless function that checks compliance. This function is maintained by your company.

You write a new event subscription at the scope of your resource. The event must be invalidated after a specific period of time.

You need to configure Event Grid to ensure security.

What should you implement? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Hot Area:

Correct Answer:

Section: [none]

Explanation

Explanation/Reference:

References:

<https://docs.microsoft.com/en-us/azure/event-grid/security-authentication>

QUESTION 11

You are building a custom Azure function app to connect to Azure Event Grid.

You need to ensure that resources are allocated dynamically to the function app. Billing must be based on the executions of the app.

What should you configure when you create the function app?

- A. the Windows operating system and the App Service plan hosting plan
- B. the Docker container and an App Service plan that uses the B1 pricing tier
- C. the Windows operating system and the Consumption plan hosting plan
- D. the Docker container and an App Service plan that uses the S1 pricing tier

Correct Answer: C

Section: [none]

Explanation

Explanation/Reference:

References:

<https://docs.microsoft.com/en-us/azure/azure-functions/functions-scale>

QUESTION 12

You have an Azure Service Bus.

You need to implement a Service Bus queue that guarantees first-in-first-out (FIFO) delivery of messages.

What should you do?

- A. Enable partitioning
- B. Enable duplicate detection
- C. Set the Lock Duration setting to **10 seconds**
- D. Enable sessions
- E. Set the Max Size setting of the queue to **5 GB**

Correct Answer: D

Section: [none]
Explanation

Explanation/Reference:

References:

<https://docs.microsoft.com/en-us/azure/service-bus-messaging/service-bus-azure-and-service-bus-queues-compared-contrasted>

Question Set 1

QUESTION 1

HOTSPOT

You have a task that includes a WebJob that should run continuously. The **WebJob Log** exhibit shows the text that is displayed when the WebJob runs. (Click the **WebJob Log** tab.)

Continuous WebJob Details WebJob1

Pending restart

Run commans: WebJob1.exe

[Toggle Output](#)

Refreshed a moment ago, [refresh](#) or [download](#)

```
[08/18/2018 17:28:24 > e013ed:SYS INFO] Run script 'WebJob1.exe' with script host -  
'WindowsScriptHost'  
[08/18/2018 17:28:24 > e013ed:SYS INFO] Status changed to Running  
[08/18/2018 17:28:25 > e013ed:INFO] WebJob Started  
[08/18/2018 17:28:25 > e013ed:SYS INFO] Status changed to Success  
[08/18/2018 17:28:25 > e013ed:SYS INFO] Process went down waiting for 60 seconds  
[08/18/2018 17:28:25 > e013ed:SYS INFO] Status changed to PendingRestart
```

The WebJob is configured as shown in the WebJob Configuration exhibit. (Click the **WebJob Configuration** tab.)

Search (Ctrl+/)

SETTINGS

Authentication / Authorization

Application Insights

Managed service identity

Backups

Custom domains

SSL certificates

Networking

Scale up (App Service plan)

Scale out (App Service plan)

WebJobs

+ Add

↺ Refresh

📄 Logs

🗑 Delete

☰ Properties

WebJobs

WebJobs provide an easy way to run scripts or programs as background processes in the context of your app.

NAME	TYPE	STATUS	SCHEDULE
WebJob1	Continuous	Pending Restart	n/a

The WebJob is not functioning as expected. The **WebJob Code** exhibit has a comment that shows where code should be added. (Click the **WebJob Code** tab.)

```

0 references
8  class Program
9  {
10 | private static Timer workTimer = new Timer();
11 |
12 | 0 references
12 | static void Main()
13 | {
14 |     Trace.WriteLine("WebJob Setup Starting");
15 |     var config = new JobHostConfiguration();
16 |
17 |     if (config.IsDevelopment)
18 |     {
19 |         config.UseDevelopmentSettings();
20 |     }
21 |
22 |     workTimer.Interval = TimeSpan.FromSeconds(10).TotalMilliseconds;
23 |     workTimer.Elapsed += WorkTimer_Elapsed;
24 |     workTimer.AutoReset = true;
25 |     workTimer.Enabled = true;
26 |
27 |     Console.WriteLine("WebJob Started");
28 | }
28 |
1 reference
30 | private static void WorkTimer_Elapsed(object sender, ElapsedEventArgs e)
31 | {
32 |     Console.WriteLine("Workload Processing");
33 |     //ToDo-Implement code
34 |     Trace.WriteLine("Workload Complete");
35 | }
36 |
37

```


You need to identify any issues with the WebJob. For each of the following statements, select Yes if the statement is true. Otherwise, select No.

NOTE: Each correct selection is worth one point.

Hot Area:

Correct Answer:

Section: [none]

Explanation

Explanation/Reference:

QUESTION 2

You have an Azure App Service API that allows users to upload documents to the cloud with a mobile device. A mobile app connects to the service by using REST API calls.

When a new document is uploaded to the service, the service extracts the document metadata. Usage statistics for the app show significant increases in app usage.

The extraction process is CPU-intensive. You plan to modify the API to use a queue.

You need to ensure that the solution scales, handles request spikes, and reduces costs between request spikes.

What should you do?

- A. Configure a CPU Optimized virtual machine (VM) and install the Web App service on the new instance.
- B. Configure a series of CPU Optimized virtual machine (VM) instances and install extraction logic to process a queue.
- C. Move the extraction logic into an Azure Function. Create a queue triggered function to process the queue.
- D. Configure Azure Container Service to retrieve items from a queue and run across a pool of virtual machine (VM) nodes using the extraction logic.

Correct Answer: C

Section: [none]

Explanation

Explanation/Reference:

QUESTION 3

DRAG DROP

Fourth Coffee has an ASP.Net Core web app that runs in Docker. The app is mapped to the `www.fourthcoffee.com` domain.

Fourth Coffee is migrating this application to Azure.

You need to provision an App Service Web App to host this docker image and map the custom domain to the App Service web app.

A resource group named `FourthCoffeePublicWebResourceGroup` has been created in the `WestUS` region that contains an App Service Plan named `AppServiceLinuxDockerPlan`.

Which order should the CLI commands be used to develop the solution? To answer, move all of the Azure CLI commands from the list of commands to the answer area and arrange them in the correct order.

Select and Place:

Azure CLI commands

```
az webapp config container set  
--docker-custom-image-name  
SdockerHubContainerPath  
--name SappName  
--resource-group  
fourthCoffeePublicWebResourceGroup
```

```
az webapp create  
--name SappName  
--plan AppServiceLinuxDockerPlan  
--resource-group  
fourthCoffeePublicWebResourceGroup
```

```
#!/bin/bash  
appName="FourthCofeePublicWebSrandom"  
location="WestUS"  
dockerHubContainerPath="FourthCofee/publicwe  
fqdn="http://fourthcofee.com">www.fourth
```

```
az webapp config hostname add  
--webapp-name SappName  
--resource-group  
fourthCoffeePublicWebResourceGroup \
```

Answer Area

Correct Answer:

Azure CLI commands

```
az webapp config container set  
--docker-custom-image-name  
SdockerHubContainerPath  
--name SappName  
--resource-group  
fourthCoffeePublicWebResourceGroup
```

```
az webapp create  
--name SappName  
--plan AppServiceLinuxDockerPlan  
--resource-group  
fourthCoffeePublicWebResourceGroup
```

```
#!/bin/bash  
appName="FourthCofeePublicWebSrandom"  
location="WestUS"  
dockerHubContainerPath="FourthCofee/publicwe  
fqdn="http://fourthcoffee.com">www.fourth
```

```
az webapp config hostname add  
--webapp-name SappName  
--resource-group  
fourthCoffeePublicWebResourceGroup \
```

Answer Area

```
#!/bin/bash  
appName="FourthCofeePublicWebS  
location="WestUS"  
dockerHubContainerPath="FourthCo  
fqdn="http://fourthcoffee.com">www
```

```
az webapp create  
--name SappName  
--plan AppServiceLinuxDockerPlan  
--resource-group  
fourthCoffeePublicWebResourceGr
```

```
az webapp config container set  
--docker-custom-image-name  
SdockerHubContainerPath  
--name SappName  
--resource-group  
fourthCoffeePublicWebResourceGro
```

```
az webapp config hostname add  
--webapp-name SappName  
--resource-group  
fourthCoffeePublicWebResourceGr
```

Section: [none]

Explanation

Explanation/Reference:

QUESTION 4

You create a social media application that users can use to upload images and other content.

Users report that adult content is being posted in an area of the site that is accessible to and intended for young children.

You need to automatically detect and flag potentially offensive content. The solution must not require any custom coding other than code to scan and evaluate images.

What should you implement?



- A. Bing Visual Search
- B. Bing Image Search
- C. Custom Vision Search
- D. Computer Vision API

Correct Answer: D

Section: [none]

Explanation

Explanation/Reference:

QUESTION 5

DRAG DROP

You plan to create a Docker image that runs an ASP.NET Core application named ContosoApp. You have a setup script named setupScript.ps1 and a series of application files including ContosoApp.dll.

You need to create a Dockerfile document that meets the following requirements:

- Call setupScript.ps1 when the container is built.
- Run ContosoApp.dll when the container starts.

The Dockerfile document must be created in the same folder where ContosoApp.dll and setupScript.ps1 are stored.

Which four commands should you use to develop the solution? To answer, move the appropriate commands from the list of commands to the answer area and arrange them in the correct order.

Select and Place:

Commands

```
RUN powershell ./setupScript.ps1  
CMD ["dotnet", "ContosoApp.dll"]
```

```
FROM microsoft/aspnetcore:2.0
```

```
CMD powershell ./setupScript.ps1  
ENTRYPOINT ["dotnet",  
"ContosoApp.dll"]
```

```
WORKDIR /apps/ContosoApp
```

```
EXPOSE ./ContosoApp/ /apps/ContosoApp
```

```
COPY ./.
```

Answer Area

Correct Answer:

Commands

**RUN powershell ./setupScript.ps1
CMD ["dotnet", "ContosoApp.dll"]**

FROM microsoft/aspnetcore:2.0

**CMD powershell ./setupScript.ps1
ENTRYPOINT ["dotnet",
"ContosoApp.dll"]**

WORKDIR /apps/ContosoApp

EXPOSE ./ContosoApp/ /apps/ContosoApp

COPY ./.

Answer Area

FROM microsoft/aspnetcore:2.0

WORKDIR /apps/ContosoApp

COPY ./.

**RUN powershell ./setupScript.ps1
CMD ["dotnet", "ContosoApp.dll"]**

Section: [none]

Explanation

Explanation/Reference:

Question Set 1

QUESTION 1

HOTSPOT

You are developing an Azure Function that will be triggered using a webhook from an external application. The Azure Function will receive JSON data in the body of the request.

Calling applications send an account ID as part of the URL. The number at the end of the URL is an integer. The format for the URL resembles the following: /api/account/1

The Azure Function must accept all incoming requests without requiring keys or tokens.

You need to complete the attributes for the Azure Function.

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:

Correct Answer:

Section: [none]

Explanation

Explanation/Reference:

QUESTION 2

HOTSPOT

You are developing a workflow solution using Azure technologies.

What should you implement to meet each requirement? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Hot Area:

Correct Answer:

Section: [none]

Explanation

Explanation/Reference:

QUESTION 3

HOTSPOT

You are developing a SMS-based testing solution. The solution sends users a question by using SMS. Early responders may qualify for prizes.

Users must respond with an answer choice within 90 seconds. You must be able to track how long it takes each user to respond. You create a durable Azure Function named SendSmsQuizQuestion that uses Twilio to send messages.

You need to write the code for MessageQuiz.

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:

Correct Answer:

Section: [none]

Explanation

Explanation/Reference:

QUESTION 4

HOTSPOT

You are developing a solution that requires serverless code execution in Azure.

The solution has two functions that must run in a specific order.



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You need to ensure that the second function can use the output from the first function.

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

```
public static async Task<object> Run (
```

DurableOrchestrationContext
DurableActivityContext
DurableOrchestrationClient
DurableOrchestrationStatus

C)

```
{  
try  
{
```

```
var f1Result = await c.
```

CallActivityAsync
CallSubOrchestratorAsync
WaitForExternalEvent

```
<object>("AzureFunction01", null);
```

```
return await c.  
}
```

CallActivityAsync
CallSubOrchestratorAsync
WaitForExternalEvent

```
<object>("AzureFunction02", f1Result);
```

```
catch (Exception e)  
{  
...  
}  
}
```

Correct Answer:

Answer Area

```
public static async Task<object> Run (
```

DurableOrchestrationContext
DurableActivityContext
DurableOrchestrationClient
DurableOrchestrationStatus

C)

```
{  
try  
{
```

```
var f1Result = await c.
```

CallActivityAsync
CallSubOrchestratorAsync
WaitForExternalEvent

```
<object>("AzureFunction01", null);
```

```
return await c.  
}
```

CallActivityAsync
CallSubOrchestratorAsync
WaitForExternalEvent

```
<object>("AzureFunction02", f1Result);
```

```
catch (Exception e)  
{  
...  
}  
}
```

Section: [none]

Explanation

Explanation/Reference:

QUESTION 5

You are developing an app that references data which is sharded across multiple Azure SQL databases.

The app must guarantee transactional consistency for changes across several different sharding key values.

You need to manage the transactions.

What should you implement?

- A. Elastic database transactions with horizontal partitioning.
- B. Distributed transactions coordinated by Microsoft Distributed Transaction Coordinator (MSDTC).
- C. Server-coordinated transactions from .NET application.
- D. Elastic database transactions with vertical partitioning.

Correct Answer: A

Section: [none]

Explanation

Explanation/Reference:

References:

<https://docs.microsoft.com/mt-mt/azure/sql-database/sql-database-elastic-transactions-overview?view=azurermps-6.13.0>

QUESTION 6

HOTSPOT

You are creating a bot for a company by using QnA Maker.

You need to ensure that the company can update the bot without third-party assistance.

What should you use? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Hot Area:

Answer Area

Scenario	Component						
Add customer question/answer content.	<table><tr><td></td><td>V</td></tr><tr><td>QnA Maker runtime</td><td></td></tr><tr><td>QnA Maker management service.</td><td></td></tr></table>		V	QnA Maker runtime		QnA Maker management service.	
	V						
QnA Maker runtime							
QnA Maker management service.							
Use an Azure Application Insights resource for analytics.	<table><tr><td></td><td>V</td></tr><tr><td>QnA Maker runtime</td><td></td></tr><tr><td>QnA Maker management service.</td><td></td></tr></table>		V	QnA Maker runtime		QnA Maker management service.	
	V						
QnA Maker runtime							
QnA Maker management service.							
Update and train a knowledge base.	<table><tr><td></td><td>V</td></tr><tr><td>QnA Maker runtime</td><td></td></tr><tr><td>QnA Maker management service.</td><td></td></tr></table>		V	QnA Maker runtime		QnA Maker management service.	
	V						
QnA Maker runtime							
QnA Maker management service.							

Correct Answer:

Answer Area

Scenario

Add customer question/answer content.

Use an Azure Application Insights resource for analytics.

Update and train a knowledge base.

Component

	V
QnA Maker runtime	
QnA Maker management service.	
	V
QnA Maker runtime	
QnA Maker management service.	
	V
QnA Maker runtime	
QnA Maker management service.	

Section: [none]

Explanation

Explanation/Reference:

References:

<https://docs.microsoft.com/en-us/azure/cognitive-services/qnamaker/overview/overview>

QUESTION 7

You are developing a speech-enabled home automation control bot.

The bot interprets some spoken words incorrectly.

You need to improve the spoken word recognition for the bot.

What should you implement?

- A. The Skype for Business Channel and use scorable dialogs for improving conversation flow.
- B. The Web Chat Channel and Speech priming using a Bing Speech Service and LUIS app.
- C. The Skype Channel and use scorable dialogs for improving conversation flow.
- D. The Cortana Channel and use scorable dialogs for improving conversation flow.

Correct Answer: B

Section: [none]

Explanation

Explanation/Reference:

QUESTION 8

DRAG DROP

Your company develops a bot that uses QnA Maker knowledge bases and Language Understanding Intelligence Services (LUIS). You create the QnA Maker service, knowledge bases, and the LUIS app.

The bot application must use LUIS to determine which QnA Maker knowledge base to use.

You need to integrate LUIS with the QnA Maker knowledge bases and maximize the effectiveness for selecting the QnA Maker knowledge bases before testing the bot.

Which four 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

Configure the bot app to link LUIS app intents to the knowledge bases.

Create utterances for the LUIS app that correspond to the knowledge bases.

Create intents for the LUIS app that correspond to knowledge bases.

Publish the LUIS application.

Configure the bot app to link LUIS app entities to the knowledge bases.

Create entities for the LUIS app that correspond to the knowledge bases.

Train the LUIS application.

Answer Area

Correct Answer:

Actions

Configure the bot app to link LUIS app intents to the knowledge bases.

Create utterances for the LUIS app that correspond to the knowledge bases.

Create intents for the LUIS app that correspond to knowledge bases.

Publish the LUIS application.

Configure the bot app to link LUIS app entities to the knowledge bases.

Create entities for the LUIS app that correspond to the knowledge bases.

Train the LUIS application.

Answer Area

Create intents for the LUIS app that correspond to knowledge bases.

Train the LUIS application.

Publish the LUIS application.

Configure the bot app to link LUIS app intents to the knowledge bases.

Section: [none]

Explanation

Explanation/Reference:

Testlet 2

Case Study

Background

Best For You Organics Company is a global restaurant franchise that has multiple locations. The company wants to enhance user experiences and vendor integrations. The company plans to implement automated mobile ordering and delivery services.

Best For You Organics hosts an Azure web app at the URL <https://www.bestforyouorganics.com>. Users can use the web app to browse restaurant location, menu items, nutritional information, and company information. The company developed and deployed a cross-platform mobile app.

Requirements

Chatbot

You must develop a chatbot by using the Bot Builder SDK and Language Understanding Intelligence Service (LUIS). The chatbot must allow users to order food for pickup or delivery.

The chatbot must meet the following requirements:

- Ensure that chatbot is secure by using the Bot Framework connector.
- Use natural language processing and speech recognition so that users can interact with the chatbot by using text and voice. Processing must be server-based.
- Alert users about promotions at local restaurants.
- Enable users to place an order for delivery or pickup by using their voice.
- Greet the user upon sign-in by displaying a graphical interface that contains action buttons.
- The chatbot greeting interface must match the formatting of the following example:

Welcome to the Restaurant!



John Doe

Sun, Aug 26, 2018

Welcome to Best For You Organics Company!
How can we help you today?

Specials: Chicken Marsala

Order Pickup Order Delivery

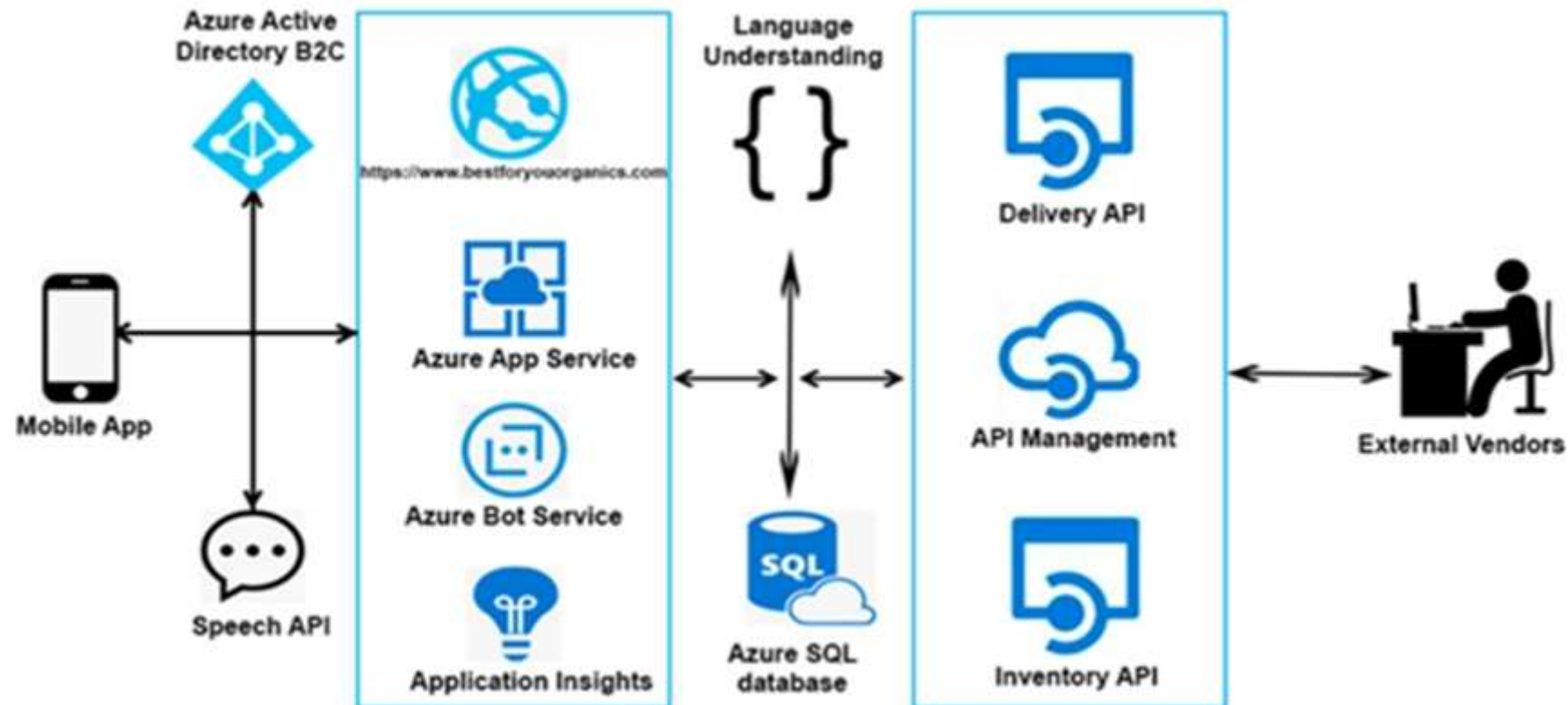
Vendor API

Vendors receive and provide updates for the restaurant inventory and delivery services by using Azure API Management hosted APIs. Each vendor uses their own subscription to access each of the APIs.

APIs must meet the following conditions:

- API usage must not exceed 5,000 calls and 50,000 kilobytes of bandwidth per hour per vendor.
- If a vendor is nearing the number of calls or bandwidth limit, the API must trigger email notifications to the vendor.
- API must prevent API usage spikes on a per-subscription basis by limiting the call rate to 100 calls per minute.
- The Inventory API must be written by using ASP.NET Core and Node.js.
- The API must be updated to provide an interface to Azure SQL Database objects must be managed by using code.
- The Delivery API must be protected by using the OAuth 2.0 protocol with Azure Active Directory (Azure AD) when called from the Azure web app. You register the Delivery API and web app in Azure AD. You enable OAuth 2.0 in the web app.
- The delivery API must update the Products table, the Vendor transactions table, and the Billing table in a single transaction.

The Best For You Organics Company architecture team has created the following diagram depicting the expected deployments into Azure:



Architecture

Issues

Delivery API

The Delivery API intermittently throws the following exception:

```
"System.Data.Entity.Core.EntityCommandExecutionException: An error occurred while executing the command definition. See the inner exception for details. -->System.Data.SqlClient.SqlException: A transport-level error has occurred when receiving results from the server. (provider: Session Provider, error: 19 - Physical connection is not usable) "
```

Chatbot greeting

The chatbot's greeting does not show the user's name. You need to debug the chatbot locally.

Language processing

Users report that the bot fails to understand when a customer attempts to order dishes that use Italian names.

App code

Relevant portions of the app files are shown below. Line numbers are included for reference only and include a two-character prefix that denotes the specific file to which they belong.

Startup.cs

```
SU01 namespace DeliveryApi
SU02 {
SU03     public class Startup
SU04     {
SU05         public Startup(IConfiguration configuration)
SU06         {
SU07             Configuration = configuration;
SU08         }
SU09         public IConfiguration Configuration { get; }
SU10         public void ConfigureServices(IServiceCollection services)
SU11         {
SU12             services.AddDbContext<RestaurantsContext>(opt =>
SU13                 opt.UseSqlServer(Configuration.GetSection("ConnectionStrings")
["RestaurantDatabase"],
SU14                 sqlServerOptionsAction: sqlOptions =>
SU15                 {
SU16                     . . .
SU17                 }));
SU18             services.AddMvc()
SU19                 .SetCompatibilityVersion(CompatibilityVersion.Version_2_1);
SU20         }
SU21         public void Configure(IApplicationBuilder app)
SU22         {
SU23             app.UseMvc();
SU24         }
```

QUESTION 1

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 vendor notification requirement.

Solution: Update the Delivery API to send emails by using a Microsoft Office 365 SMTP server.

Does the solution meet the goal?

- A. Yes
- B. No

Correct Answer: B

Section: [none]

Explanation

Explanation/Reference:

References:

<https://docs.microsoft.com/en-us/azure/api-management/api-management-howto-configure-notifications>

QUESTION 2

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 vendor notification requirement.

Solution: Configure notifications in the Azure API Management instance.

Does the solution meet the goal?

- A. Yes
- B. No

Correct Answer: A

Section: [none]

Explanation

Explanation/Reference:

References:

<https://docs.microsoft.com/en-us/azure/api-management/api-management-howto-configure-notifications>

QUESTION 3

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 vendor notification requirement.

Solution: Update the Delivery API to send emails by using a cloud-based email service.

Does the solution meet the goal?

A. Yes

B. No

Correct Answer: B

Section: [none]

Explanation

Explanation/Reference:

References:

<https://docs.microsoft.com/en-us/azure/api-management/api-management-howto-configure-notifications>

QUESTION 4

You need to meet the vendor notification requirement.

Solution: Create and apply a custom outbound Azure API Management policy.

Does the solution meet the goal?

A. Yes

B. No

Correct Answer: B

Section: [none]

Explanation

Explanation/Reference:

References:

<https://docs.microsoft.com/en-us/azure/api-management/api-management-howto-configure-notifications>

QUESTION 5

You need to resolve the delivery API error.

What should you do?

- A. Implement simple retry by using the **EnableRetryOnFailure** feature of Entity Framework.
- B. Implement exponential backoff by using the **EnableRetryOnFailure** feature of Entity Framework.
- C. Implement a Circuit Breaker pattern by using the **EnableRetryOnFailure** feature of Entity Framework.
- D. Invoke a custom execution strategy in Entity Framework.

Correct Answer: B

Section: [none]

Explanation

Explanation/Reference:

References:

<https://docs.microsoft.com/en-us/azure/sql-database/sql-database-develop-error-messages>

QUESTION 6

You need to implement the purchase requirement.

What should you do?

- A. Use the Bot Framework REST API conversation operations to send the user's voice and the Speech Service API to recognize intents.
- B. Use the Direct Line REST API to send the user's voice and the Speech Service API to recognize intents.
- C. Use the Speech Service API to send the user's voice and the Bot Framework REST API conversation operations to recognize intents.
- D. Use the Bot Framework REST API attachment operations to send the user's voice and the Speech Service API to recognize intents.

Correct Answer: A

Section: [none]

Explanation

Explanation/Reference:

QUESTION 7

You need to meet the security requirements.

What should you use?

- A. HTTP Strict Transport Security (HSTS)
- B. Direct Line API
- C. Multi-Factor Authentication (MFA)
- D. Bot Framework Portal
- E. Bot Framework authentication

Correct Answer: E

Section: [none]

Explanation

Explanation/Reference:



<https://www.gratisexam.com/>