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AZ-302

Microsoft Azure Solutions Architect Certification Transition
Question Set 1

QUESTION 1
A company named Contoso Ltd., has a single-domain Active Directory forest named contoso.com.

Contoso is preparing to migrate all workloads to Azure. Contoso wants users to use single sign-on (SSO) when they access cloud-based services that integrate with Azure Active Directory (Azure AD).

You need to identify any objects in Active Directory that will fail to synchronize to Azure AD due to formatting issues. The solution must minimize costs.

What should you include in the solution?

A. Azure Advisor
B. Password Export Server version 3.1 (PES v3.1) in Active Directory Migration Tool (ADMT)
C. Azure AD Connect Health
D. Microsoft Office 365 IdFix

Correct Answer: D
Section: [none]
Explanation

Explanation/Reference:

QUESTION 2
You host an on-premises ASP.NET Web API at the company headquarters. The Web API is consumed by applications running at the company's branch offices using the Azure Relay service. All the users of the applications are on the same Azure Active Directory (Azure AD).

You need to ensure that the applications can consume the Web API.

What should you do?

A. Create separate AD groups named **Senders** and **Receivers**. In Access Control (IAM) for the relay namespace, assign **Senders** the Reader role and assign **Receivers** the Reader role.
B. Create a Shared Access policy for send permissions and another for Receive permissions.
C. Create dedicated Azure AD identities named Sender and Receiver. Assign Sender the Azure AD Identity Reader role. Assign Receiver the Azure AD Identity reader role. Configure applications to use the respective identities.

D. Create a Shared Access policy for the namespace. Use a connection string in the Web API and use a different connection string in consumer applications.

Correct Answer: D
Section: [none]
Explanation

Explanation/Reference:
References:
https://docs.microsoft.com/en-us/azure/service-bus-relay/relay-authentication-and-authorization

Question Set 1

QUESTION 1
Note: This question is a part of a series of questions that presents the same scenario. Each question in the series contains a unique solution that might meet the stated goals. Some questions sets might have more than one correct solution, while others not have a correct solution.

After you answer a question in this section, you will Not be able to return to it. As a result, these questions will not appear in the review screen.

You need to deploy resources to host a stateless web app in an Azure subscription. The solution must meet the following requirements:

▪ Provide access to the full .NET framework.
▪ Provide redundancy if an Azure region fails.
▪ Grant administrators access to the operating system to install custom application dependencies.

Solution: You deploy a virtual machine scale set that uses autoscaling.

Does this meet the goal?

A. Yes
B. No

Correct Answer: B
Section: [none]
Explanation

Explanation/Reference:

QUESTION 2
Note: This question is a part of a series of questions that presents the same scenario. Each question in the series contains a unique solution that might meet the stated goals. Some questions sets might have more than one correct solution, while others not have a correct solution.

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▪ Provide access to the full .NET framework.
▪ Provide redundancy if an Azure region fails.
▪ Grant administrators access to the operating system to install custom application dependencies.

Solution: You deploy an Azure machine to two Azure regions, and you create a traffic manager profile.

Does this meet the goal?

A. Yes
B. No

Correct Answer: A
Section: [none]
Explanation

Explanation/Reference:

QUESTION 3
Note: This question is a part of a series of questions that presents the same scenario. Each question in the series contains a unique solution that might meet the stated goals. Some questions sets might have more than one correct solution, while others not have a correct solution.

After you answer a question in this section, you will Not be able to return to it. As a result, these questions will not appear in the review screen.

You need to deploy resources to host a stateless web app in an Azure subscription. The solution must meet the following requirements:

▪ Provide access to the full .NET framework.
▪ Provide redundancy if an Azure region fails.
▪ Grant administrators access to the operating system to install custom application dependencies.

Solution: You deploy an Azure machine to two Azure regions, and you deploy an Azure Application Gateway.

Does this meet the goal?

A. Yes
B. No

Correct Answer: B
Section: [none]
Explanation

Explanation/Reference:
Explanation:

An Azure Application Gateway can connect to backend VMs in separate availability zones but not separate regions. Availability Zones are unique physical locations within an Azure region.

QUESTION 4
You plan to move a web application named App1 from an on-premises data center to Azure.

App1 depends on a custom framework that is installed on the host server.

You need to recommend a solution to host App1 in Azure. The solution must meet the following requirements:

▪ App1 must be available to users if an Azure data center becomes unavailable. ▪
Costs must be minimized.

What should you include in the recommendation?

A. In two Azure regions, deploy a load balancer and a web app.
B. Deploy a load balancer and a virtual machine scale set across two availability zones.
C. In two Azure regions, deploy a traffic manager profile and a web app.
D. In two Azure regions, deploy a load balancer and a virtual machine scale set.

Correct Answer: C
Section: [none]
Explanation

Explanation/Reference:

QUESTION 5

You have an Azure subscription used for testing and development purposes only. The subscription contains Azure virtual machines that use unmanaged, standard hard disks drives (HDD).

You need to recommend a recovery strategy for the virtual machines if an Azure region fails for a sustained period. The recovery time objective (RTO) can be up to seven days. The solution must minimize costs.

What should you include in the recommendation?

A. Store disks in a Standard_LRS storage account. If a disaster occurs, manually create the virtual machines by using Azure Resource manager templates.
B. Store disks in a Standard_LRS storage account. Configure Azure Site Recovery. If a failure occurs, initiate a manual failover.
C. Store disks in a Standard_GRS storage account. Configure Azure Site Recovery. If a failure occurs, initiate a manual failover.
D. Store disks in a Standard_GRS storage account. If a disaster occurs, manually create the virtual machines by using Azure Resource manager templates.

Correct Answer: D
Section: [none]
Explanation

Explanation/Reference:

Testlet 1

Case Study

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.

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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 sections 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 on this case study, click 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.

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 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?

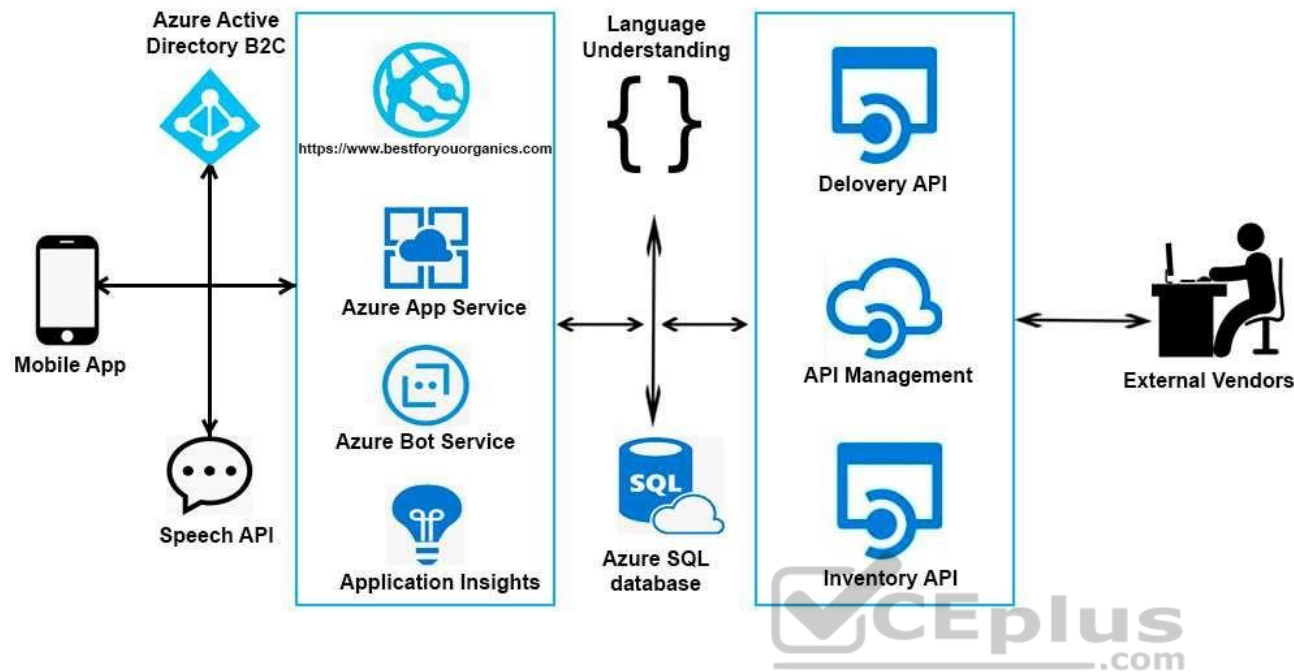**Specials:** Chicken Marsala

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. ▪
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:

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.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 ConfigureService(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     }
SU25   }
SU26  }
```

QUESTION 1
You need to meet the security requirements.

What should you use?

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

Correct Answer: C
Section: [none]
Explanation

Explanation/Reference:

Question Set 2

QUESTION 1
You plan to develop an Azure Stream Analytics job that ingests streaming data from legacy SaaS, and cloud applications. The data will be used to launch workflows which perform data analysis.

You need to select Azure resources to handle the data input and output for the solution.

Which resources should you use?

A. Input: Event Hub, output: IoT Hub
B. Input: Blobs, output: IoT Hub
C. Input: Event Hub, output: Service Bus
D. Input: Event Hub, output: Azure SQL database

Correct Answer: C
Section: [none]
Explanation

Explanation/Reference:

QUESTION 2
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 S1 pricing tier.
C. The Docker container and an App Service plan that uses the B1 pricing tier

D. The Windows operating system and the Consumption plan hosting plan.

Correct Answer: D
Section: [none]
Explanation

Explanation/Reference:
References:
https://docs.microsoft.com/en-us/azure/azure-functions/functions-scale

Testlet 1

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Specials: Chicken Marsala

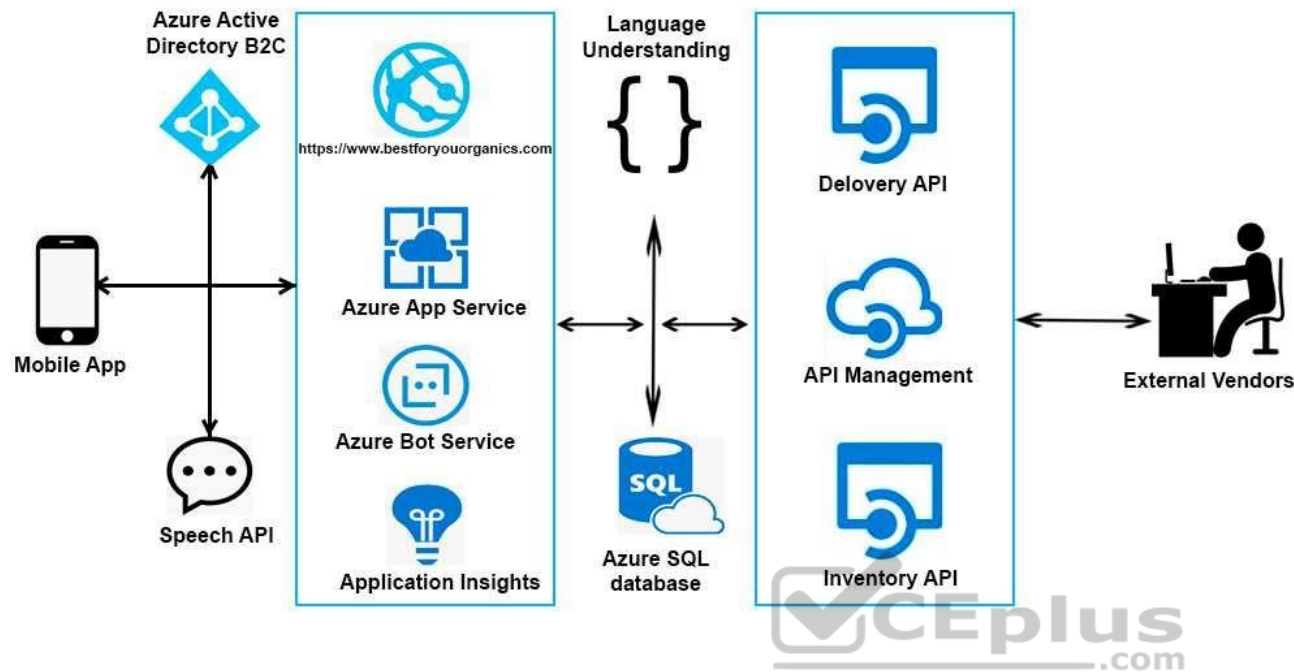**Order Pickup**   **Order Delivery**

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SU09    public IConfiguration Configuration { get; }
SU10    public void ConfigureService(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     }
SU25   }
SU26 }
```

QUESTION 1
Note: In this section, you will see one or more sets of questions with the same scenario and problem. Each question presents a unique solution to the problem, and you must determine whether the solution meets the stated goals. More than one solution might solve the problem. it is also possible that none of the solutions solve the problem.

After you answer a question in this section, you will NOT be able to return to it. As a result, these questions will not appear in the review screen.

Note: This question is part of a series of questions that presents 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 2
Note: In this section, you will see one or more sets of questions with the same scenario and problem. Each question presents a unique solution to the problem, and you must determine whether the solution meets the stated goals. More than one solution might solve the problem. it is also possible that none of the solutions solve the problem.

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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 3
Note: In this section, you will see one or more sets of questions with the same scenario and problem. Each question presents a unique solution to the problem, and you must determine whether the solution meets the stated goals. More than one solution might solve the problem. it is also possible that none of the solutions solve the problem.

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Note: This question is part of a series of questions that presents 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 4

Note: In this section, you will see one or more sets of questions with the same scenario and problem. Each question presents a unique solution to the problem, and you must determine whether the solution meets the stated goals. More than one solution might solve the problem. it is also possible that none of the solutions solve the problem.
After you answer a question in this section, you will NOT be able to return to it. As a result, these questions will not appear in the review screen.

Note: This question is part of a series of questions that presents the same scenario. Each question in the series contains a unique solution. determine whether the solution meets the stated goals.

You need to resolve the delivery API error.

What should you do?

A. Implement simple retry using the EnableRetryOnFailure feature of Entity Framework.
B. Implement exponential back off by using the EnableRetryOnFailure feature of Entity Framework.
C. Implement the Circuit Breaker pattern by using the EnableRetryOnFailure feature of Entity Framework.
D. Invoke accustom 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 Set 2

QUESTION 1
A company plans to automate specific sections of a customer service call center solution.

You must develop a bot that can be used on the company's website to provide answers to frequently asked questions (FAQ). You must create a bot that includes the existing FAQs by using Azure Bot Service with QnA Maker.

You need to test the bot.

What are two ways to achieve this goal? Each correct answer presents a complete solution.

NOTE: Each correct selection is worth one point.

A. MSBot

B. Bot Framework Emulator
C. Web chat in Azure portal
D. ngrok

Correct Answer: BC
Section: [none]
Explanation

Explanation/Reference:

QUESTION 2
HOTSPOT

You are developing an IoT solution.

The solution requires bidirectional communication between a client .NET back-end application that will connect to the IoT Hub to process information.

You need to collect the values required for the back-end application to connect with the newly created IoT Hub.

How should you complete the commands? 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
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 Cortana Channel and use scorable dialogs for improving conversation flow
B. The Skype for Business Channel and use scorable dialogs for improving conversation flow
C. The Skype Chanel and Speech priming using a LUIS app
D. The Web Chat Channel and Speech priming using a Bing Speech Service and LUIS app

Correct Answer: D
Section: [none]
Explanation

Explanation/Reference:

QUESTION 4
A company sells products worldwide and provides customer service in many languages. The company has a customer service email address for customer requests.

The language the email is written in needs to be recognized and routed to the appropriate local department.

You need to use the appropriate cognitive service to detect the language of the email.

How should you initiate language detection?

A. Use the Spark natural language processing functionality on Azure HDInsight.
B. Post the content to https://westus.api.cognitive.microsoft.com/luis/v2.0/apps/...?subscription-key...&verbose=false.
C. Use the Entity Linking Intelligence Service (ELIS) API.
D. Post the content to <region>.api.cognitive.microsoft.com/text/analytics/v2.0/languages.endpoint.

Correct Answer: D
Section: [none]
Explanation

Explanation/Reference:

QUESTION 5
DRAG DROP

You are creating a collaborative image hosting platform as an ASP.NET MVC web application. Users add, update, and modify images on the platform. Images are stored in Azure Blob storage.

More than one user at a time must be able to modify the same image.

You need to implement optimistic concurrency for uploading images.

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:

Correct Answer:

Section: [none]
Explanation
Explanation/Reference:
References: https://azure.microsoft.com/en-gb/blog/managing-concurrency-in-microsoft-azure-storage-2/

QUESTION 6
You develop a payment processing solution by using a .NET Framework application.

Customer data is spread across multiple Azure SQL Database servers and is not sharded. When a payment is made from one person to another person, data may be changed in multiple databases at once.

You need to ensure transactional atomicity across databases.

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

NOTE: Each correct selection is worth one point.

A. In the solution, use the OpenConnectionForKey function to reference each database that will be included during a distributed transaction.
B. In Azure PowerShell, create a new communication relationship between each database that requires distributed transactions.
C. Use the Microsoft Distributed Transaction Coordination (MS DTC) service to configure distributed transactions between each database.
D. In the solution, create new SqlConnection objects for each database that will be included during a distributed transaction.

Correct Answer: BD
Section: [none]
Explanation

Explanation/Reference: References: https://docs.microsoft.com/en-us/azure/sql-database/sql-database-elastic-transactions-overview#transactions-across-multiple-servers

QUESTION 7
You are developing a .NET Core on-premises application that updates multiple Azure SQL Database instances. The application must log all update commands attempted to a separate Azure SQL database instance named AuditDb.

You define an outer TransactionScope with a loop to enumerate and run the SQL commands on each customer database connection and an inner TransactionScope to record all transactions attempted within the outer TransactionScope to the AuditDb database.

You need to develop a method to perform the updates to the databases. The solution must meet the following requirements:

▪ All rows written to the AuditDb database must be committed even if the outer transaction fails.
▪ If an error occurs writing to the AuditDb database, the outer transaction must be rolled back.

▪ If an error occurs writing to the Customer databases, only the outer transaction must be rolled back.
▪ Values for TransactionScopeOption must be specified for the customer databases. ▪
Values for TransactionScopeOption must be specified for the AuditDb database.

Which TransactionScopeOption values should you use?

A. Required for TransactionScopeOption and Required for AuditTranScopeOption
B. Required for TransactionScopeOption and Suppress for AuditTransScopeOption
C. Suppress for TransactionScopeOption and Suppress for AuditTranScopeOption
D. Suppress for TransactionScopeOption and RequiresNew for AuditTranScopeOption

Correct Answer: B
Section: [none]
Explanation

Explanation/Reference:
References: https://docs.microsoft.com/en-us/dotnet/framework/data/transactions/implementing-an-implicit-transaction-using-transaction-scope?view=netframework-4.7.2

QUESTION 8
You have implemented code that uses elastic transactions spanning across three different Azure SQL Database logical servers.

Database administrators report that some transactions take longer to complete than expected.

You need to use the correct tool to monitor all the transactions originating from the elastic transaction implementation.

Which tool should you use?

A. Run the `sys.dm_tran_active_transactions` dynamic management view.
B. Use the dependencies section of Azure Applications Insights.
C. Run the `sys.dm_tran_current_snapshot` dynamic view.
D. Run the `sys.dm_tran_active_snapshot_database_transactions` dynamic management view.

Correct Answer: A
Section: [none]
Explanation

Explanation/Reference:
References:
https://docs.microsoft.com/en-us/azure/sql-database/sql-database-elastic-transactions-overview