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AZ-300

Microsoft Azure Architect Technologies (beta)

Question Set 1

QUESTION 1
You have two subscriptions named Subscription1 and Subscription2. Each subscription is associated to a different Azure AD tenant.

Subscription1 contains a virtual network named VNet1. VNet1 contains an Azure virtual machine named VM1 and has an IP address space of 10.0.0.0/16.

Subscription2 contains a virtual network named VNet2. Vnet2 contains an Azure virtual machine named VM2 and has an IP address space of 10.10.0.0/24.

You need to connect VNet1 to VNet2.

What should you do first?

A. Modify the IP address space of VNet2.
B. Move VM1 to Subscription2.
C. Provision virtual network gateways.
D. Move VNet1 to Subscription2.

Correct Answer: C
Section: [none]
Explanation

Explanation/Reference:

QUESTION 2
You have an Azure Active Directory (Azure AD) tenant.

You have an existing Azure AD conditional access policy named Policy1. Policy1 enforces the use of Azure AD-joined devices when members of the Global Administrators group authenticate to Azure AD from untrusted locations.

You need to ensure that members of the Global Administrators group will also be forced to use multi-factor authentication when authenticating from untrusted locations.

What should you do?

A. From the Azure portal, modify session control of Policy1.
B. From multi-factor authentication page, modify the user settings.
C. From multi-factor authentication page, modify the service settings.
D. From the Azure portal, modify grant control of Policy1.

Correct Answer: D
Section: [none]
Explanation

Explanation/Reference:

QUESTION 3
You have an Azure subscription named Subscription1 that contains an Azure virtual machine named VM1. VM1 is in a resource group named RG1.

VM1 runs services that will be used to deploy resources to RG1.

You need to ensure that a service running on VM1 can manage the resources in RG1 by using the identity of VM1.

What should you do first?

A. From the Azure portal, modify the Access control (IAM) settings of RG1.
B. From the Azure portal, modify the Policies settings of RG1.
C. From the Azure portal, modify the Access control (IAM) settings of VM1.
D. From the Azure portal, modify the value of the Managed Service Identity option for VM1.

Correct Answer: D
Section: [none]
Explanation

Explanation/Reference: References: https://docs.microsoft.com/en-us/azure/active-directory/managed-identities-azure-resources/overview

QUESTION 4
HOTSPOT You have an
Azure Active Directory
(Azure AD) tenant.

You need to create a conditional access policy that requires all users to use multi-factor authentication when they access the Azure portal.

Which three settings should you configure? To answer, select the appropriate settings to 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/active-directory/conditional-access/app-based-mfa

QUESTION 5
You configure Azure AD Connect for Azure Active Directory Seamless Single Sign-On (Azure AD Seamless SSO) for an on-premises network.

Users report that when they attempt to access myapps.microsoft.com, they are prompted multiple times to sign in and are forced to use an account name that ends with onmicrosoft.com.

You discover that there is a UPN mismatch between Azure AD and the on-premises Active Directory.

You need to ensure that the users can use single-sign on (SSO) to access Azure resources.

What should you do first?

A. From on-premises network, deploy Active Directory Federation Services (AD FS).
B. From Azure AD, add and verify a custom domain name.
C. From on-premises network, request a new certificate that contains the Active Directory domain name.
D. From the server that runs Azure AD Connect, modify the filtering options.

Correct Answer: B
Section: [none]
Explanation

Explanation/Reference:

QUESTION 1
Note: This question is part of series of questions that present the same scenario. Each question in the series contains a unique solution that might meet the stated goals. Some question sets might have more than one correct solution, while others might 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 have an Azure Active Directory (Azure AD) tenant named Adatum and an Azure Subscription named Subscription1. Adatum contains a group named Developers. Subscription1 contains a resource group named Dev.

You need to provide the Developers group with the ability to create Azure logic apps in the Dev resource group.

Solution: On Dev, you assign the Logic App Contributor role to the Developers group.

Does this meet the goal?

A. Yes
B. No

Correct Answer: B
Section: [none]
Explanation

Explanation/Reference:
Explanation:
The Logic App Contributor role lets you read, enable and disable logic app.

References: https://docs.microsoft.com/en-us/azure/role-based-access-control/built-in-roles#logic-app-contributor

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

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You need to provide the Developers group with the ability to create Azure logic apps in the Dev resource group.

Solution: On Dev, you assign the Contributor role to the Developers group.

Does this meet the goal?

A. Yes
B. No

Correct Answer: A
Section: [none]
Explanation

Explanation/Reference:
Explanation:
The Contributor role lets you manage everything except access to resources. It allows you to create and manage resources of all types, including creating Azure logic apps.

References: https://docs.microsoft.com/en-us/azure/role-based-access-control/built-in-roles#contributor

QUESTION 3
Note: This question is part of series of questions that present the same scenario. Each question in the series contains a unique solution that might meet the stated goals. Some question sets might have more than one correct solution, while others might 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.

A company backs up data to on-premises servers at their main facility. The company currently has 30 TB of archived data that infrequently used. The facility has download speeds of 100 Mbps and upload speeds of 20 Mbps.

You need to securely transfer all backups to Azure Blob Storage for long-term archival. All backup data must be sent within seven days.

Solution: Backup data to local disks and use the Azure Import/Export service to send backups to Azure Blob Storage.

Does this meet the goal?

A. Yes
B. No

Correct Answer: A
Section: [none]
Explanation
Explanation/Reference:

QUESTION 4
Note: This question is part of series of questions that present the same scenario. Each question in the series contains a unique solution that might meet the stated goals. Some question sets might have more than one correct solution, while others might 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.

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You need to securely transfer all backups to Azure Blob Storage for long-term archival. All backup data must be sent within seven days.

Solution: Create a file share in Azure Files. Mount the file share to the server and upload the files to the file share. Transfer the files to Azure Blob Storage.

Does this meet the goal?

A. Yes
B. No

Correct Answer: B
Section: [none]
Explanation

Explanation/Reference:

QUESTION 5
Note: This question is part of series of questions that present the same scenario. Each question in the series contains a unique solution that might meet the stated goals. Some question sets might have more than one correct solution, while others might not have a correct solution.

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You need to securely transfer all backups to Azure Blob Storage for long-term archival. All backup data must be sent within seven days.

Solution: Use the **Set-AzureStorageBlobContent** Azure PowerShell command to copy all backups asynchronously to Azure Blob Storage.

Does this meet the goal?

A. Yes

B. No

Correct Answer: B
Section: [none]
Explanation

Explanation/Reference:

QUESTION 6
You have an on-premises network that contains a Hyper-V host named Host1. Host1 runs Windows Server 2016 and hosts 10 virtual machines that run Windows Server 2016.

You plan to replicate the virtual machines to Azure by using Azure Site Recovery.

You create a Recovery Services vault named ASR1 and a Hyper-V site named Site1.

You need to add Host1 to ASR1.

What should you do?

A. ▪ Download the installation file for the Azure Site Recovery Provider.
   ▪ Download the storage account key.
   ▪ Install the Azure Site Recovery Provider on each virtual machine and register the virtual machines.
B. ▪ Download the installation file for the Azure Site Recovery Provider. ▪ Download the vault registration key.
   ▪ Install the Azure Site Recovery Provider on Host1 and register the server.
C. ▪ Download the installation file for the Azure Site Recovery Provider.
   ▪ Download the storage account key.

   ▪ Install the Azure Site Recovery Provider on Host1 and register the server.

D. ▪ Download the installation file for the Azure Site Recovery Provider.
   ▪ Download the vault registration key.
   ▪ Install the Azure Site Recovery Provider on each virtual machine and register the virtual machines.

Correct Answer: B
Section: [none]
Explanation

Explanation/Reference:
References: https://docs.microsoft.com/en-us/azure/site-recovery/hyper-v-azure-tutorial

QUESTION 7
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 8

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.

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 9
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:		V
	New-AzureRmLocalNetworkGateway	
	New-AzureRmVirtualNetworkGatewayConnection	
	Set-AzureRmVirtualNetworkGatewayDefaultSite	

On a VPN device in the New York office, set the traffic selectors to:		V
	0.0.0.0/0	
	10.0.0.0/16	
	192.168.0.0/20	

Correct Answer:

Answer Area

In Azure, run:

	V
New-AzureRmLocalNetworkGateway	
New-AzureRmVirtualNetworkGatewayConnection	
Set-AzureRmVirtualNetworkGatewayDefaultSite	

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

	V
0.0.0.0/0	
10.0.0.0/16	
192.168.0.0/20	

Section: [none]
Explanation

Explanation/Reference:

QUESTION 10
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 11
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 12
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 13
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 14
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

Testlet 2

Case study

Overview

ADatum Corporation is a financial company that has two main offices in New York and Los Angeles. ADatum has a subsidiary named Fabrikam, Inc. that shares the Los Angeles office.

ADatum is conducting an initial deployment of Azure services to host new line-of-business applications and is preparing to migrate its existing on-premises workloads to Azure.

ADatum uses Microsoft Exchange Online for email.

Existing Environment

On-Premises Environment
The on-premises workloads run on virtual machines hosted in a VMware vSphere 6 infrastructure. All the virtual machines are members of an Active Directory forest named adatum.com and run Windows Server 2016.

The New York office uses an IP address space of 10.0.0.0/16. The Los Angeles office uses an IP address space of 10.10.0.0/16.

The offices connect by using a VPN provided by an ISP. Each office has one Azure ExpressRoute circuit that provides access to Azure services and Microsoft Online Services. Routing is implemented by using Microsoft peering.

The New York office has a virtual machine named VM1 that has the vSphere console installed.

Azure Environment
You provision the Azure infrastructure by using the Azure portal. The infrastructure contains the resources shown in the following table.

Name	Type	Azure Region
ASRV1	Azure Site Recovery vault	East US
ASRV2	Azure Site Recovery vault	West US
ASE1	Azure App Service Environment	East US
AG1	Azure Application Gateway (internal)	East US
AG2	Azure Application Gateway (Internet-facing)	West US
ER1	ExpressRoute circuit	East US
ER2	ExpressRoute circuit	West US

AG1 has two backend pools named Pool11 and Pool12. AG2 has two backend pools named Pool21 and Pool22.

Requirements

Planned Changes
ADatum plans to migrate the virtual machines from the New York office to the East US Azure region by using Azure Site Recovery.

Infrastructure Requirements
ADatum identifies the following infrastructure requirements:

▪ A new web app named App1 that will access third-parties for credit card processing must be deployed
▪ A newly developed API must be implemented as an Azure function named App2. App2 will use a blob storage trigger. App2 must process new blobs immediately.
▪ The Azure infrastructure and the on-premises infrastructure must be prepared for the migration of the VMware virtual machines to Azure.
▪ The sizes of the Azure virtual machines that will be used to migrate the on-premises workloads must be identified.

- All migrated and newly deployed Azure virtual machines must be joined to the adatum.com domain. -
AG1 must load balance incoming traffic in the following manner:
1. http://corporate.adatum.com/video/* will be load balanced across Pool11
2. http://corporate.adatum.com/images/* will be load balanced across Pool12 - AG2 must load balance incoming traffic in the following manner:
1. http://www.adatum.com will be load balanced across Pool21
2. http://www.fabrikam.com will be load balanced across Pool22
- ER1 must route traffic between the New York office and the platform as a service (PaaS) services in the East US Azure region, as long as ER1 is available.
- ER2 must route traffic between the Los Angeles office and the PaaS services in the West US region, as long as ER2 is available. - ER1 and ER2 must be configured to fail over automatically.

Application Requirements

App2 must be able to connect directly to the private IP addresses of the Azure virtual machines. App2 will be deployed directly to an Azure virtual network.

Inbound and outbound communications to App1 must be controlled by using NSGs.

Pricing Requirements

ADatum identifies the following pricing requirements:

- The cost of App1 and App2 must be minimized.
- The transactional charges of Azure Storage accounts must be minimized.

QUESTION 1
You need to configure AG1.

What should you create?

A. a multi-site listener
B. a basic routing rule
C. a URL path-based routing rule
D. a basic listener

Correct Answer: C
Section: [none]
Explanation

Explanation/Reference:
References:
https://docs.microsoft.com/en-us/azure/application-gateway/application-gateway-create-url-route-portal

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.)

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.)

```csharp
     0 references
8    class Program
9    {
10   private static Timer workTimer = new Timer();
11

     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

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 4
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	Answer Area

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 ./ .

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
You download an Azure Resource Manager template based on an existing virtual machine. The template will be used to deploy 100 virtual machines.

You need to modify the template to reference an administrative password. You must prevent the password from being stored in plain text.

What should you create to store the password?

A. an Azure Key Vault and an access policy.
B. an Azure Storage account and an access policy.
C. Azure Active Directory (AD) Identity Protection and an Azure policy.
D. a Recovery Services vault and a backup policy.

Correct Answer: A
Section: [none]
Explanation

Explanation/Reference:

QUESTION 2
You maintain an existing Azure SQL Database instance. Management of the database is performed by an external party. All cryptographic keys are stored in an Azure Key Vault.

You must ensure that the external party cannot access the data in the SSN column of the Person Table.

Will each protection method meet the requirement? To answer, drag the appropriate responses to the correct protection methods.

Each response 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.

Select and Place:

Responses

Yes

No

Answer Area

Protection method

Enable AlwaysOn encryption.

Set the column encryption setting to disabled.

Assign users to the Public fixed database role.

Store column encryption keys in the system catalog view in the database.

Response

Response

Response

Response

Response

Correct Answer:
Section: [none]
Explanation

Explanation/Reference:

Responses

Yes
No

Answer Area

Protection method

Response

Enable AlwaysOn encryption.

Yes

Set the column encryption setting to disabled.

No

Assign users to the Public fixed database role.

No

Store column encryption keys in the system catalog view in the database.

No

References: https://docs.microsoft.com/en-us/azure/security/azure-database-security-overview

QUESTION 3
You are the global administrator for an Azure Active Directory (Azure AD) tenant named adatum.com.

You need to enable two-step verification for Azure users.

What should you do?

A. Create an Azure AD conditional access policy.
B. Configure a playbook in Azure Security Center.
C. Enable Azure AD Privileged Identity Management.
D. Install an MFA Server.

Correct Answer: A
Section: [none]
Explanation

Explanation/Reference:
References:
https://docs.microsoft.com/en-us/azure/active-directory/authentication/howto-mfa-getstarted

Question Set 1

QUESTION 1

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.

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(                          C)
                    ┌──────────────────────────────┐
                    │ DurableOrchestrationContext   │
                    │ DurableActivityContext        │
                    │ DurableOrchestrationClient     │
                    │ DurableOrchestrationStatus     │
                    └──────────────────────────────┘

    {
    try
    {

var f1Result = await c.                          <object>("AzureFunction01", null);
                    ┌──────────────────────────────┐
                    │ CallActivityAsync             │
                    │ CallSuborchestratorAsync       │
                    │ WaitForExternalEvent           │
                    └──────────────────────────────┘


            ┌──────────────────────────────┐
            │ CallActivityAsync             │
return await c. │ CallSubOrchestratorAsync       │   <object>("AzureFunction02",f1Result);
}           │ WaitForExternalEvent           │
            └──────────────────────────────┘


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

Correct Answer:

Answer Area

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

| DurableOrchestrationContext |
| DurableActivityContext |
| DurableOrchestrationClient |
| DurableOrchestrationStatus |

```
{
try
{
var f1Result = await c.                           <object>("AzureFunction01", null);
```

| CallActivityAsync |
| CallSuborchestratorAsync |
| WaitForExternalEvent |

| CallActivityAsync |
| CallSubOrchestratorAsync |
| WaitForExternalEvent |

```
return await c.                                    <object>("AzureFunction02", f1Result);
}

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

Section: [none]
Explanation

Explanation/Reference:
QUESTION 2

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 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 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:

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
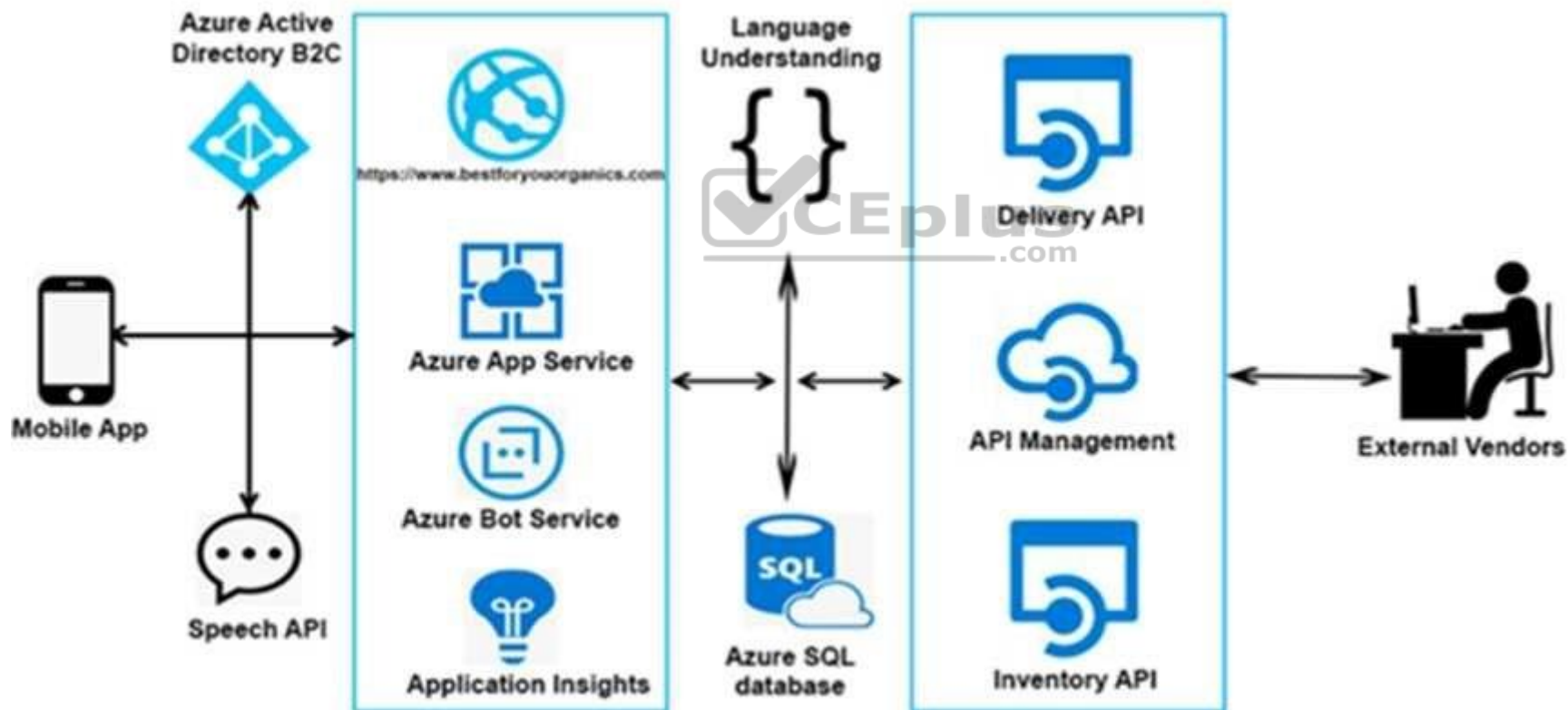
Order Pickup   Order Delivery

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 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   }
```

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

https://vceplus.com/