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AZ-300

Microsoft Azure Architect Technologies (beta)

Version 1-0



Question Set 1

QUESTION 1

HOTSPOT

You have an Azure subscription named Subscription1. Subscription1 contains the resources in the following table:

Name	Type
RG1	Resource group
RG2	Resource group
VNet1	Virtual network
VNet2	Virtual network

VNet1 is in RG1. VNet2 is in RG2. There is no connectivity between VNet1 and VNet2. An administrator named Admin1 creates an Azure virtual machine VM1 in RG1. VM1 uses a disk named Disk1 and connects to VNet1. Admin1 then installs a custom application in VM1.

You need to move the custom application to VNet2. The solution must minimize administrative effort.

Which two actions should you perform? 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

You have an Azure subscription named Subscription1 that is used by several departments at your company. Subscription1 contains the resources in the following table.

Name	Type
Storage1	Storage account
RG1	Resource group
Container1	Blob container
Share1	File share

Another administrator deploys a virtual machine named VM1 and an Azure Storage account named Storage2 by using a single Azure Resource Manager template.

You need to view the template used for the deployment.

From which blade can you view the template that was used for the deployment?

- A. Container1
- B. VM1
- C. Storage2
- D. RG1

Correct Answer: D

Section: [none]

Explanation

Explanation/Reference

:

QUESTION 3

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 4 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 5

HOTSPOT

You plan to deploy five virtual machines to a virtual network subnet.

Each virtual machine will have a public IP address and a private IP address.

Each virtual machine requires the same inbound and outbound security rules.

What is the minimum number of network interfaces and network security groups that you require? 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 6 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 7

HOTSPOT

You have an Azure subscription named Subscription1. Subscription1 contains the virtual networks in the following table:

Name	Address space	Subnet name	Subnet address range
VNet1	10.1.0.0/16	Subnet1	10.1.1.0/24
VNet2	10.10.0.0/16	Subnet2	10.10.1.0/24
VNet3	172.16.0.0/16	Subnet3	172.16.1.0/24

Subscription1 contains the virtual machines in the following table:

Name	Network	Subnet	IP address
VM1	VNet1	Subnet1	10.1.1.4
VM2	VNet2	Subnet2	10.10.1.4
VM3	VNet3	Subnet3	172.16.1.4

The firewalls on all the virtual machines are configured to allow all ICMP traffic.

You add the peerings in the following table:

Virtual network	Peering network
VNet1	VNet3
VNet2	VNet3
VNet3	VNet1

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:

Answer Area



Statements

Yes No

VM1 can ping VM3.

VM2 can ping VM3.

VM2 can ping VM1.

Correct Answer:

Answer Area

Statements	Yes	No
VM1 can ping VM3.	<input checked="" type="radio"/>	<input type="radio"/>
VM2 can ping VM3.	<input type="radio"/>	<input checked="" type="radio"/>
VM2 can ping VM1.	<input type="radio"/>	<input checked="" type="radio"/>



Section: [none]
Explanation

Explanation/Reference

:

References: <https://docs.microsoft.com/en-us/azure/virtual-network/tutorial-connect-virtual-networks-portal>

QUESTION 8

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 9

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 10 You have an Active Directory forest named contoso.com.

You install and configure AD Connect to use password hash synchronization as the single sign-on(SSO) method. Staging mode is enabled.

You review the synchronization results and discover that the Synchronization Service Manager does not display any sync jobs.

You need to ensure that the synchronization completes successfully.

What should you do?

- A. From Azure PowerShell, run **Start-AdSyncSyncCycle -PolicyType Initial**.
- B. Run Azure AD Connect and set the SSO method to Pass-through Authentication.
- C. From Synchronization Service Manager, run a full import.
- D. Run Azure AD Connect and disable staging mode.



Correct Answer: D

Section: [none]

Explanation

Explanation/Reference

:

References: <https://docs.microsoft.com/en-us/azure/active-directory/hybrid/how-to-connect-sync-operations>

QUESTION 11

DRAG DROP

You have an Azure Active Directory (Azure AD) tenant that has the initial domain name.

You have a domain name of contoso.com registered at a third-party registrar.

You need to ensure that you can create Azure AD users that have names containing a suffix of @contoso.com.

Which three actions should you perform in sequence? To answer, move the appropriate cmdlets from the list of cmdlets to the answer area and arrange them in the correct order.

Select and Place:

Correct Answer:

Section: [none]

Explanation

Explanation/Reference

:

References: <https://docs.microsoft.com/en-us/azure/active-directory/fundamentals/add-custom-domain>

QUESTION 12

HOTSPOT

You have an Azure Storage accounts as shown in the following exhibit.



The screenshot shows the Azure portal interface for storage accounts. At the top, there are navigation options: Add, Edit columns, Refresh, Assign Tags, and Delete. Below this, there are filter and sort options: *Filter by name, All subscriptions (v), All resource groups (v), All types (v), All locations (v), and No grouping (v). The main content area shows a table with 3 items. The table has columns for NAME, TYPE, KIND, RESOURCE..., LOCATION, SYBSRIPTL., ACCESS T..., and REPLICAT..

NAME	TYPE	KIND	RESOURCE...	LOCATION	SYBSRIPTL.	ACCESS T...	REPLICAT..
storageaccount1	Storage account	Storage	ContosoRG1	East US	Subscription 1	-	Read-access ge..
storageaccount2	Storage account	StorageV2	ContosoRG1	Central US	Subscription 1	Hot	Geo-redundant
storageaccount3	Storage account	BlobStorage	ContosoRG1	East US	Subscription 1	Hot	Locally-redund

Use the drop-down menus to select the answer choice that completes each statement based on the information presented in the graphic.

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/storage/common/storage-account-overview>

Question Set 1

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 Subscription1, you assign the DevTest Labs User role to the Developers group.

Does this meet the goal?

- A. Yes
- B. No

Correct Answer: B

Section: [none]

Explanation

Explanation/Reference

:

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 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

:



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.

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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 Contributor role to the Developers group.

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.

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 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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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: 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 6

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: 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 7

HOTSPOT

You are developing a back-end Azure App Service that scales based on the number of messages contained in a Service Bus queue.

A rule already exists to scale up the App Service when the average queue length of unprocessed and valid queue messages is greater than 1000.

You need to add a new rule that will continuously scale down the App Service as long as the scale up condition is not met.

How should you configure the Scale rule? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Hot Area:



Answer Area

Scale Rule X

Metric source

Storage queue
Service Bus queue
Current resource
Storage queue(classic)

Resource type

Service Bus Namespaces v

Resource

MessageQueue1103 v

*Queues

itemqueue v

Criteria

*Metric name

Message Count
Active Message Count

1 minute time grain

*Time grain statistic ⓘ

Total
Maximum
Average
Count

*Operator

Greater than
Greater than or equal to
Less than
Less than or equal to

*Threshold

1000

Action

*Operation

Increase count by
Increase count to
Decrease count by
Decrease count to

*Instance count

1

Correct Answer:



Answer Area

Scale Rule X

Metric source

Storage queue
Service Bus queue
Current resource
Storage queue(classic)

Resource type

Service Bus Namespaces v

Resource

MessageQueue1103 v

*Queues

itemqueue v

Criteria

*Metric name

Message Count
Active Message Count

1 minute time grain

*Time grain statistic ⓘ

Total
Maximum
Average
Count

*Operator

Greater than
Greater than or equal to
Less than
Less than or equal to

*Threshold

1000

Action

*Operation

Increase count by
Increase count to
Decrease count by
Decrease count to

*Instance count

1

Section: [none]

Explanation

Explanation/Reference:

QUESTION 8

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 9

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 10 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 11

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 12 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 13 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 14 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 15

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 16 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 17

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 18

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 19 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 20 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> **Testlet 2**

Case study

Overview

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 2

DRAG DROP

You need to configure the Azure ExpressRoute circuits.

How should you configure Azure ExpressRoute routing? To answer, drag the appropriate configurations to the correct locations. Each configuration 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:

Configurations	Answer Area
Use BGP communities to configure BGP's Local Preference.	Routing from A.Datum to Azure: <input style="width: 100%; height: 30px;" type="text"/>
Use BGP to append the private AS numbers to the advertised prefixes.	Routing from Microsoft Online Services to A.Datum: <input style="width: 100%; height: 30px;" type="text"/>
Use BGP to append the public AS numbers to the advertised prefixes.	

Correct Answer:

Configurations	Answer Area
Use BGP communities to configure BGP's Local Preference.	Routing from A.Datum to Azure:
Use BGP to append the private AS numbers to the advertised prefixes.	Routing from Microsoft Online Services to A.Datum:
Use BGP to append the public AS numbers to the advertised prefixes.	

Use BGP to append the private AS numbers to the advertised prefixes.

Use BGP communities to configure BGP's Local Preference.

Section: [none]
Explanation

Explanation/Reference:



QUESTION 3
DRAG DROP

You need to prepare the New York office infrastructure for the migration of the on-premises virtual machines 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.

Select and Place:

Correct Answer:

Section: [none]
Explanation

Explanation/Reference:

References:

<https://docs.microsoft.com/en-us/azure/site-recovery/vmware-azure-tutorial>

Question Set 1

QUESTION 1
DRAG DROP

You are developing a web app that uses a REST interface to connect to Azure Storage with HTTPS. This app uploads and streams video content that can be accessed from anywhere in the world.

You have different storage requirements for each part of the app. A hierarchical namespace must be created.

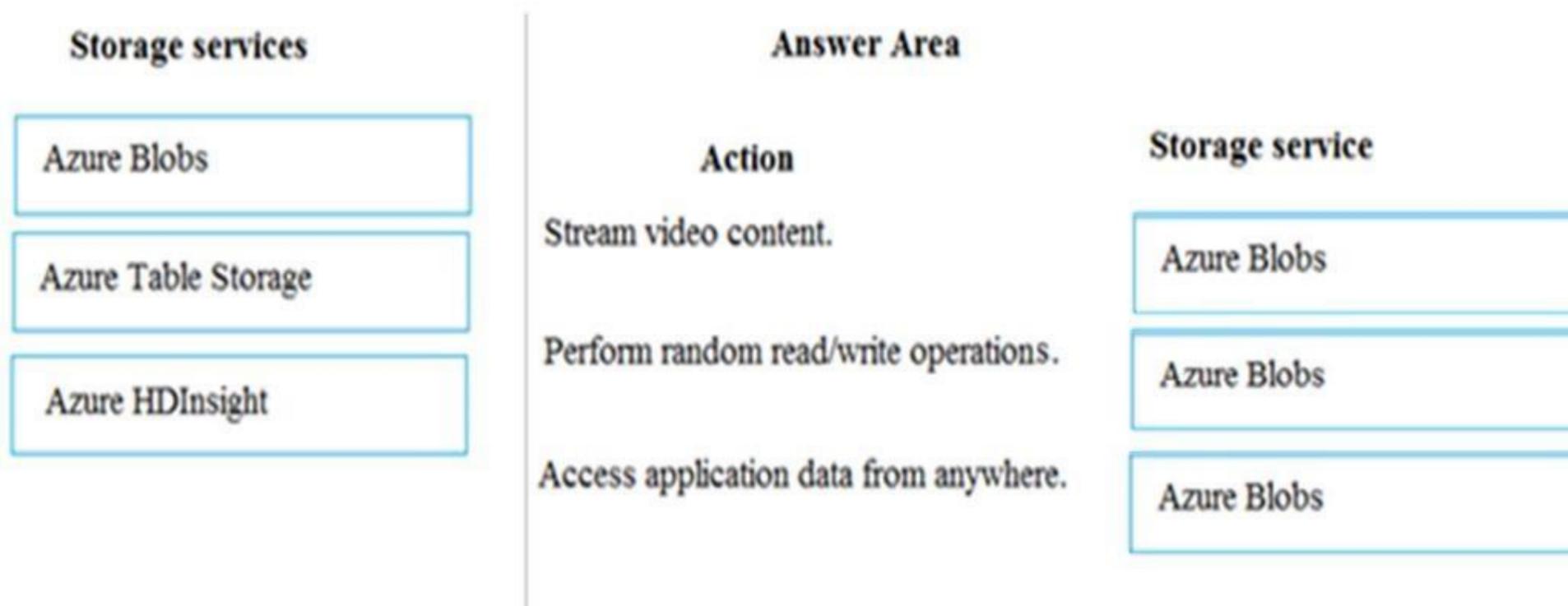
Which storage services should you implement? To answer, select the appropriate services to the correct actions. Each service may be used once, more than once, or not at all. You may need to drag the split bar between panes or scroll to view content.

NOTE: Each correct selection is worth one point.

Select and Place:

Storage services	Answer Area	
Azure Blobs	Action	Storage service
Azure Table Storage		Stream video content.
Azure HDInsight		Perform random read/write operations.
	Access application data from anywhere.	

Correct Answer:



Section: [none]
Explanation

Explanation/Reference:

QUESTION 2

You create an Azure Time Series Insights event handler. You need to send data over the network as efficiently as possible and optimize query performance.

What should you do?

- A. Create a query plan
- B. Send all properties
- C. Use a Tag ID
- D. Use reference data

Correct Answer: D
Section: [none]
Explanation

Explanation/Reference:

References: <https://docs.microsoft.com/en-us/azure/time-series-insights/how-to-shape-query-json>

QUESTION 3 You are creating an IoT solution using Azure Time Series Insights.

You configure the environment to ensure that all data for the current year is available.

What should you do?

- A. Add a disaster recovery (DR) strategy.
- B. Set a value for the Data retention time setting.

- C. Change the pricing tier.
- D. Create a reference data set.

Correct Answer: D

Section: [none]

Explanation

Explanation/Reference:



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.)

WebApp0909 - WebJobs
App Service

Search (Ctrl+/)

[+ 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

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](#)



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 \
--hostname Sfqn
```

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://fourthcofee.com">www.fourth
```

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

Answer Area

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

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

```
az webapp config container set
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fourthCoffeePublicWebResourceGroup
```

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

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:
Testlet 2

Case study

Overview

Existing Environment

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

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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:

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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 implement App2 to meet the application requirements. What should you include in the implementation? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Hot Area:



Answer Area

App Service plan pricing tier:

	▼
Isolated	
Shared	
Standard	

Enabled feature:

	▼
Always On	
Auto Swap	
Web Sockets	



Correct Answer:

Answer Area

App Service plan pricing tier:

	V
Isolated	
Shared	
Standard	

Enabled feature:

	V
Always On	
Auto Swap	
Web Sockets	



Section: [none]
Explanation

Explanation/Reference:

References:

<https://azure.microsoft.com/en-us/pricing/details/app-service/plans/> <https://docs.microsoft.com/en-us/azure/azure-functions/functions-scale> **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	Answer Area	Response
Yes	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

Correct Answer:

Responses**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

Section: [none]
Explanation

Explanation/Reference:

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: D

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.

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 (
    {
    try
    {
var f1Result = await c.
return await c.
    }
    catch (Exception e)
    {
    ...
    }
    }

```

c)

- DurableOrchestrationContext
- DurableActivityContext
- DurableOrchestrationClient
- DurableOrchestrationStatus

- CallActivityAsync
- CallSuborchestratorAsync
- WaitForExternalEvent

- CallActivityAsync
- CallSubOrchestratorAsync
- WaitForExternalEvent

Correct Answer:

Answer Area

```

public static async Task<object> Run (
    {
    try
    {
var f1Result = await c.
return await c.
    }
    catch (Exception e)
    {
    ...
    }
    }

```

c)

DurableOrchestrationContext
DurableActivityContext
DurableOrchestrationClient
DurableOrchestrationStatus

CallActivityAsync
CallSuborchestratorAsync
WaitForExternalEvent

CallActivityAsync
CallSubOrchestratorAsync
WaitForExternalEvent

Section: [none]

Explanation

Explanation/Reference:

QUESTION 5 You are developing an app that references data which is shared 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=azuremps-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 border="1"> <tr><td><input type="checkbox"/></td></tr> <tr><td>QnA Maker runtime</td></tr> <tr><td>QnA Maker management service.</td></tr> </table>	<input type="checkbox"/>	QnA Maker runtime	QnA Maker management service.
<input type="checkbox"/>				
QnA Maker runtime				
QnA Maker management service.				
Use an Azure Application Insights resource for analytics.	<table border="1"> <tr><td><input type="checkbox"/></td></tr> <tr><td>QnA Maker runtime</td></tr> <tr><td>QnA Maker management service.</td></tr> </table>	<input type="checkbox"/>	QnA Maker runtime	QnA Maker management service.
<input type="checkbox"/>				
QnA Maker runtime				
QnA Maker management service.				
Update and train a knowledge base.	<table border="1"> <tr><td><input type="checkbox"/></td></tr> <tr><td>QnA Maker runtime</td></tr> <tr><td>QnA Maker management service.</td></tr> </table>	<input type="checkbox"/>	QnA Maker runtime	QnA Maker management service.
<input type="checkbox"/>				
QnA Maker runtime				
QnA Maker management service.				

Correct Answer:

Answer Area

Scenario	Component						
Add customer question/answer content.	<table border="1"> <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 border="1"> <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 border="1"> <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.							

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	Answer Area
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.	



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.

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

The chatbot greeting interface must match the formatting of the following example:

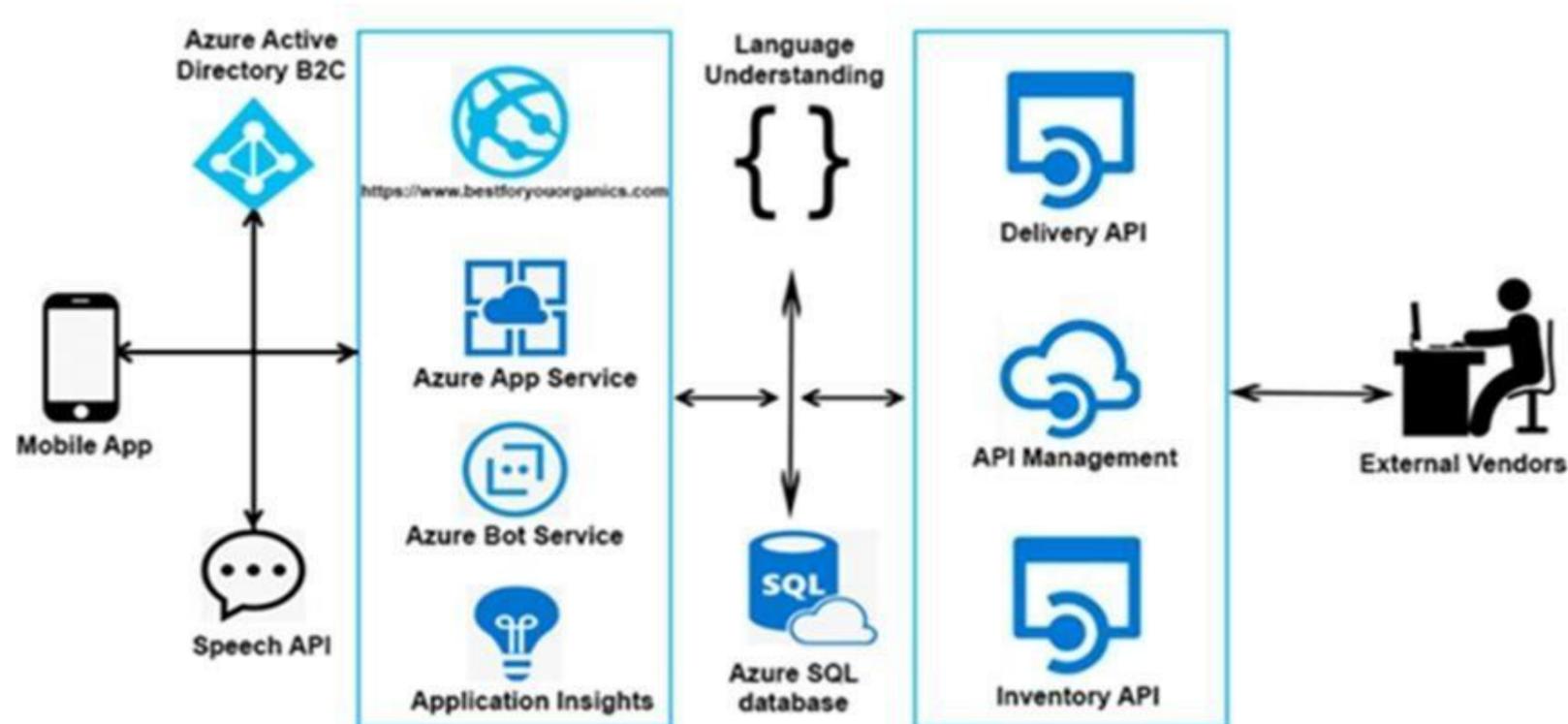
Vendor API

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         }
SU25     }
SU26 }
```



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: