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Vendor:Microsoft

Exam Code:AZ-301

Exam Name:Microsoft Azure Architect Design

Version:Demo

QUESTION 1

You have an on-premises network that uses on IP address space of 172.16.0.0/16

You plan to deploy 25 virtual machines to a new azure subscription.

You identify the following technical requirements.

All Azure virtual machines must be placed on the same subnet subnet1.

All the Azure virtual machines must be able to communicate with all on premises servers.

The servers must be able to communicate between the on-premises network and Azure by using a site to site VPN.

You need to recommend a subnet design that meets the technical requirements.

What should you include in the recommendation? To answer, drag the appropriate network addresses to the correct subnet. Each network address 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:

Network Addresses

- 172.16.0.0/16
- 172.16.1.0/28
- 192.168.0.0/24
- 192.168.1.0/28

Answer Area



Subnet1:
Gateway subnet:

- Network address
- Network address

Correct Answer:

Network Addresses

172.16.0.0/16

172.16.1.0/28

Answer Area



Subnet1:

192.168.0.0/24

Gateway subnet:

192.168.1.0/28

QUESTION 2

You need to recommend a solution for implementing the back-end tier of the payment processing system in Azure. What should you include in the recommendation?

- A. an Azure SQL Database managed instance
- B. a SQL Server database on an Azure virtual machine
- C. an Azure SQL Database single database
- D. an Azure SQL Database elastic pool

Correct Answer: C

QUESTION 3

Note: This question is a 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 subscription that contains a resource group named RG1.

You create an Azure Active Directory (Azure AD) group named ResearchUsers that contains the user accounts of all researchers.

You need to recommend a solution that meets the following requirements:

1.

The researchers must be allowed to create Azure virtual machines.

2.

The researchers must only be able to create Azure virtual machines by using specific Azure Resource Manager templates.

Solution: Create an Azure DevOps Project. Configure the DevOps Project settings.

Does this meet the goal?

A. Yes

B. No

Correct Answer: B

Instead: On RG1, assign the Contributor role to the ResearchUsers group. Create a custom Azure Policy definition and assign the policy to RG1.

QUESTION 4

You are developing a web application that provides streaming video to users. You configure the application to use continuous integration and deployment.

The app must be highly available and provide a continuous streaming experience for users.

You need to recommend a solution that allows the application to store data in a geographical location that is closest to the user.

What should you recommend?

A. Azure App Service Web Apps

B. Azure App Service Isolated

C. Azure Redis Cache

D. Azure Content Delivery Network (CDN)

Correct Answer: D

Azure Content Delivery Network (CDN) is a global CDN solution for delivering high-bandwidth content. It can be hosted in Azure or any other location. With Azure CDN, you can cache static objects loaded from Azure Blob storage, a web application, or any publicly accessible web server, by using the closest point of presence (POP) server. Azure CDN can also accelerate dynamic content, which cannot be cached, by leveraging various network and routing optimizations.

Reference: <https://docs.microsoft.com/en-in/azure/cdn/>

QUESTION 5

WebDev01 is used only for testing purposes. You need to reduce the costs to host WebDev01. What should you modify?

NOTE: To answer this question, sign in to the Azure portal and explore the Azure resource groups.

- A. the disk type of WebDev01
- B. the networking properties of WebDev01
- C. the storage type of the storage account
- D. the properties of the storage account

Correct Answer: C

The storage type can be changed to Block blobs to save money.

References: <https://azure.microsoft.com/en-us/pricing/details/storage/>

QUESTION 6

You plan to move several apps that handle critical line-of-business (LOB) services to Azure.

Appropriate personnel must be notified if any critical resources become degraded or unavailable.

You need to design a monitoring and notification strategy that can handle up to 100 notifications per hour.

Which three actions should you recommend be performed 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:

Actions

Create a resource group containing the critical resources.

Monitor Azure status for warnings and errors.

Create an activity log alert for service health.

Create an action group for alerts to email addresses.

Create an action group for alerts to SMS phone numbers.

Monitor service health for incidents and action required notifications.

Answer Area



Correct Answer:

Actions

Monitor Azure status for warnings and errors.

Create an activity log alert for service health.

Create an action group for alerts to SMS phone numbers.

Answer Area

Create a resource group containing the critical resources.

Create an action group for alerts to email addresses.

Monitor service health for incidents and action required notifications.



Step 1: Create a resource group containing the critical resources.

In step 2 the action group should be created within this Resource Group.

Step 2: Create an action group for alerts to email addresses.

You configure an action to notify a person by email or SMS, they receive a confirmation indicating they have been added to the action group.

The rate limit thresholds are:

SMS: No more than 1 SMS every 5 minutes.

Voice: No more than 1 Voice call every 5 minutes.

Email: No more than 100 emails in an hour.

Step 3: Monitor service health for incidents and action required notifications

An action group is a collection of notification preferences defined by the owner of an Azure subscription. Azure Monitor and Service Health alerts use action groups to notify users that an alert has been triggered.

References:

<https://docs.microsoft.com/en-us/azure/azure-monitor/platform/alerts-rate-limiting>

QUESTION 7

Note: This question is part of a 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 Storage account that contains two 1-GB data files named File1 and File2. The data files are set to use the archive access tier.

You need to ensure that File1 is accessible immediately when a retrieval request is initiated.

Solution: For File1, you set Access tier to Cool.

Does this meet the goal?

A. Yes

B. No

Correct Answer: B

Instead use the hot access tier.

The hot access tier has higher storage costs than cool and archive tiers, but the lowest access costs. Example usage scenarios for the hot access tier include:

1.

Data that's in active use or expected to be accessed (read from and written to) frequently.

2.

Data that's staged for processing and eventual migration to the cool access tier.

References: <https://docs.microsoft.com/en-us/azure/storage/blobs/storage-blob-storage-tiers>

QUESTION 8

Note: This question is a 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 deploy resources to host a stateless web app in an Azure subscription. The solution must meet the

following requirements:

1.

Provide access to the full .NET framework.

2.

Provide redundancy if an Azure region fails.

3.

Grant administrators access to the operating system to install custom application dependencies.

Solution: You deploy a web app in an Isolated App Service plan.

Does this meet the goal?

A. Yes

B. No

Correct Answer: B

Instead, you should deploy an Azure virtual machine to two Azure regions, and you create a Traffic Manager profile.

QUESTION 9

HOTSPOT

You are building an application that will run in a virtual machine (VM). The application will use Managed Service Identity (MSI).

The application uses Azure Key Vault, Azure SQL Database, and Azure Cosmos DB.

You need to ensure the application can use secure credentials to access these services.

Which authorization methods should you recommend? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Hot Area:

Azure Key Vault

Hash-based message authentication code (HMAC)
Managed Service Identity (MSI)
Role-Based Access Controls (RBAC)
HTTPS encryption

Azure SQL

Hash-based message authentication code (HMAC)
Managed Service Identity (MSI)
Role-Based Access Controls (RBAC)
HTTPS encryption

Cosmos DB

Hash-based message authentication code (HMAC)
Managed Service Identity (MSI)
Role-Based Access Controls (RBAC)
HTTPS encryption

Correct Answer:

Azure Key Vault

Hash-based message authentication code (HMAC)
Managed Service Identity (MSI)
Role-Based Access Controls (RBAC)
HTTPS encryption

Azure SQL

Hash-based message authentication code (HMAC)
Managed Service Identity (MSI)
Role-Based Access Controls (RBAC)
HTTPS encryption

Cosmos DB

Hash-based message authentication code (HMAC)
Managed Service Identity (MSI)
Role-Based Access Controls (RBAC)
HTTPS encryption

Explanation:

Note: Managed identities for Azure resources is the new name for the service formerly known as Managed Service Identity (MSI).

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

QUESTION 10

Your company plans to migrate its on-premises data to Azure.

You need to recommend which Azure services can be used to store the data. The solution must meet the following requirements:

1.

Encrypt all data while at rest.

2.

Encrypt data only by using a key generated by the company.

Which two possible services can you recommend? Each correct answer presents a complete solution.

NOTE: Each correct selection is worth one point.

A. Azure Table storage

B. Azure Backup

C. Azure Blob storage

D. Azure Queue storage

E. Azure Files

Correct Answer: CE

Reference: <https://docs.microsoft.com/en-us/azure/storage/common/storage-service-encryption-customer-managed-keys>

QUESTION 11

HOTSPOT

Your organization has developed and deployed several Azure App Service Web and API applications. The applications use Azure Key Vault to store several authentication, storage account, and data encryption keys. Several departments have the following requests to support the applications:

Department	Request
Security	<ul style="list-style-type: none">Review membership of administrative roles and require to provide a justification for continued membershipGet alerts about changes in administrator assignments.See a history of administrator activation, including which changes administrators made to Azure resources.
Development	<ul style="list-style-type: none">Enable the applications to access Azure Key Vault and retrieve keys for use in code.
Quality Assurance	<ul style="list-style-type: none">Receive temporary administrator access to create and configure additional Web and API applications in the test environment.

You need to recommend the appropriate Azure service for each department request.

What should you recommend? To answer, configure the appropriate options in the dialog box in the answer area.

NOTE: Each correct selection is worth one point.

Hot Area:

Department

Azure Service

Security

	▼
Azure AD Privileged Identity Management	
Azure AD Managed Service Identity	
Azure AD Connect	
Azure AD Identity Protection	

Development

	▼
Azure AD Privileged Identity Management	
Azure AD Managed Service Identity	
Azure AD Connect	
Azure AD Identity Protection	

Quality Assurance

	▼
Azure AD Privileged Identity Management	
Azure AD Managed Service Identity	
Azure AD Connect	
Azure AD Identity Protection	

Correct Answer:

Department

Azure Service

Security

	▼
Azure AD Privileged Identity Management	
Azure AD Managed Service Identity	
Azure AD Connect	
Azure AD Identity Protection	

Development

	▼
Azure AD Privileged Identity Management	
Azure AD Managed Service Identity	
Azure AD Connect	
Azure AD Identity Protection	

Quality Assurance

	▼
Azure AD Privileged Identity Management	
Azure AD Managed Service Identity	
Azure AD Connect	
Azure AD Identity Protection	

QUESTION 12

Note: This question is a 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 are designing a storage solution to support on-premises resources and Azure-hosted resources.

You need to provide on-premises storage that has built-in replication to Azure.

Solution: You include Azure Table Storage in the design.

Does the solution meet the goal?

A. Yes

B. No

Correct Answer: B

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