



Microsoft Azure Architect Design Exam

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### **QUESTION 1**

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

Does this meet the goal?

A. Yes

B. No

Correct Answer: A

#### **QUESTION 2**

A company deploys Azure Active Directory (Azure AD) Connect to synchronize identity information from their onpremises Active Directory Domain Services (AD DS) directory to their Azure AD tenant. The identity information that is synchronized includes user accounts, credential hashes for authentication (password sync), and group membership. The company plans to deploy several Windows and Linux virtual machines (VMs) to support their applications.

The VMs have the following requirements:

1.

Support domain join, LDAP read, LDAP bind, NTLM and Kerberos authentication, and Group Policy.

2.

Allow users to sign in to the domain using their corporate credentials and connect remotely to the VM by using Remote Desktop.



You need to support the VM deployment. Which service should you use?

- A. Azure AD Domain Services
- B. Azure AD Privileged Identity Management
- C. Azure AD Managed Service Identity
- D. Active Directory Federation Services (AD FS)

Correct Answer: A

Azure AD Domain Services provides managed domain services such as domain join, group policy, LDAP, Kerberos/NTLM authentication that are fully compatible with Windows Server Active Directory.

Reference: https://docs.microsoft.com/en-us/azure/active-directory-domain-services/active-directory-ds-overview

### **QUESTION 3**

You need to recommend a strategy for migrating the database content of WebApp1 to Azure. What should you include in the recommendation?

A. Use Azure Site Recovery to replicate the SQL servers to Azure.

- B. Copy the BACPAC file that contains the Azure SQL database files to Azure Blob storage.
- C. Use SQL Server transactional replication.

D. Copy the VHD that contains the Azure SQL database files to Azure Blob storage.

Correct Answer: D

Before you upload a Windows virtual machine (VM) from on-premises to Azure, you must prepare the virtual hard disk (VHD or VHDX).

Scenario: WebApp1 has a web tier that uses Microsoft Internet Information Services (IIS) and a database tier that runs Microsoft SQL Server 2016. The web tier and the database tier are deployed to virtual machines that run on Hyper-V.

Reference:

https://docs.microsoft.com/en-us/azure/virtual-machines/windows/prepare-for-upload-vhd-image

## **QUESTION 4**

#### DRAG DROP

The developers at your company are building a static web app to support users sending text messages. The app must meet the following requirements:

1.

Website latency must be consistent for users in different geographical regions.



2.

Users must be able to authenticate by using Twitter and Facebook.

3.

Code must include only HTML, native JavaScript, and jQuery.

4.

Costs must be minimized.

Which Azure service should you use to complete the architecture? To answer, drag the appropriate services to the correct locations. 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.

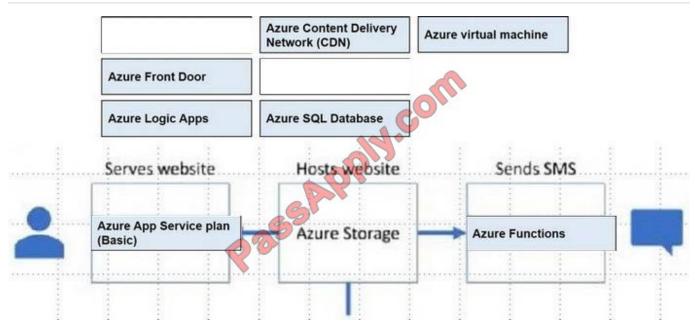
NOTE: Each correct selection is worth one point.

Select and Place:

(Basic)	Network (CDN)	
Azure Front Door	Azure Functions	0
Azure Logic Apps	Azure SQL Database	
Serves website	Hosts website	Sends SMS
Service	Azure Storage	Service
<u></u>		

Correct Answer:





Box 1: Azure App Service plan (Basic)

With App Service you can authenticate your customers with Azure Active Directory, and integrate with Facebook, Twitter, Google.

Box 2: Azure Functions

You can send SMS messages with Azure Functions with Javascript.

Reference:

https://docs.microsoft.com/en-us/azure/active-directory-b2c/partner-whoiam

https://www.codeproject.com/Articles/1368337/Implementing-SMS-API-using-Azure-Serverless-Functi

#### **QUESTION 5**

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.

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.

Your company has an on-premises data center and an Azure subscription. The on-premises data center contains a Hardware Security Module (HSM).

Your network contains an Active Directory domain that is synchronized to an Azure Active Directory (Azure AD) tenant.

The company is developing an application named Application1. Application1 will be hosted in Azure by using 10 virtual machines that run Windows Server 2016. Five virtual machines will be in the West Europe Azure region and five virtual



machines will be in the East US Azure region. The virtual machines will store sensitive company information. All the virtual machines will use managed disks.

You need to recommend a solution to encrypt the virtual machine disks by using BitLocker Drive Encryption (BitLocker).

Solution: Deploy one Azure Key Vault to each region. Configure virtual machines to use Azure Disk Encryption. Use a different Key Vault for encrypting virtual machine disks in each region.

Does this meet the goal?

A. Yes

B. No

Correct Answer: B

The security key from the on-premises HSM need to be exported.

Reference: https://docs.microsoft.com/en-us/azure/security/azure-security-disk-encryption-prerequisites-aad

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