



AZ-301^{Q&As}

Microsoft Azure Architect Design

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QUESTION 1

A company deploys Azure Active Directory (Azure AD) Connect to synchronize identity information from their on-premises 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 2

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 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 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 Storage v2 account named Storage1.

You plan to archive data to Storage1.

You need to ensure that the archived data cannot be deleted for five years. The solution must prevent administrators from deleting the data.

Solution: You create a file share, and you configure an access policy.

Does this meet the goal?

- A. Yes
- B. No

Correct Answer: B

Instead of a file share, an immutable Blob storage is required.

Time-based retention policy support: Users can set policies to store data for a specified interval. When a time-based retention policy is set, blobs can be created and read, but not modified or deleted. After the retention period has expired,



blobs can be deleted but not overwritten.

Note: Set retention policies and legal holds

1.

Create a new container or select an existing container to store the blobs that need to be kept in the immutable state. The container must be in a general-purpose v2 or Blob storage account.

2.

Select Access policy in the container settings. Then select Add policy under Immutable blob storage.

3.

To enable time-based retention, select Time-based retention from the drop-down menu.

4.

Enter the retention interval in days (acceptable values are 1 to 146000 days).

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

<https://docs.microsoft.com/en-us/azure/storage/blobs/storage-blob-immutability-policies-manage>

QUESTION 4

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. A company has custom ASP.NET and Java applications that run old versions of Windows and

Linux. The company plans to place applications in containers.

You need to design a solution that includes networking, service discovery, and load balancing for the applications. The solution must support storage orchestration.

Solution: Deploy a Kubernetes cluster that has the desired number of instances of the applications.

Does the solution meet the goal?

A. Yes

B. No

Correct Answer: B

Instead you should deploy each application to an Azure Container instance.

Note: Docker Containers are the global standard and are natively supported in Azure, offering enterprises an interesting and flexible way to migrate legacy apps for both future proofing and cost benefits.



Reference:

<https://docs.microsoft.com/en-us/dotnet/standard/modernize-with-azure-and-containers/modernize-existing-apps-to-cloud-optimized/deploy-existing-net-apps-as-windows-containers>

QUESTION 5

You have an on-premises network that uses an 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 | Answer Area |
|-------------------|--|
| 172.16.0.0/16 | Subnet1: <input type="text" value="Network address"/> |
| 172.16.1.0/28 | Gateway subnet: <input type="text" value="Network address"/> |
| 192.168.0.0/24 | |
| 192.168.1.0/28 | |

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

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