



AZ-301^{Q&As}

Microsoft Azure Architect Design

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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	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

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

Does this meet the goal?

A. Yes

B. No

Correct Answer: A

**QUESTION 3**

You have an Azure subscription that contains several resource groups, including a resource group named RG1. RG1 contains several business-critical resources.

A user named admin1 is assigned the Owner role to the subscription.

You need to prevent admin1 from modifying the resources in RG1. The solution must ensure that admin1 can manage the resources in the other resource groups.

What should you use?

- A. a management group
- B. an Azure policy
- C. a custom role
- D. an Azure blueprint

Correct Answer: C

Role-based access control (RBAC) focuses on user actions at different scopes. You might be added to the contributor role for a resource group, allowing you to make changes to that resource group. Incorrect Answers:

A: If your organization has many subscriptions, you may need a way to efficiently manage access, policies, and compliance for those subscriptions. Azure management groups provide a level of scope above subscriptions.

B: There are a few key differences between Azure Policy and role-based access control (RBAC). Azure Policy focuses on resource properties during deployment and for already existing resources. Azure Policy controls properties such as the types or locations of resources. Unlike RBAC, Azure Policy is a default allow and explicit deny system.

D: Azure Blueprints enables cloud architects and central information technology groups to define a repeatable set of Azure resources that implements and adheres to an organization's standards, patterns, and requirements.

Reference: <https://docs.microsoft.com/en-us/azure/role-based-access-control/overview>

QUESTION 4

A partner manages on-premises and Azure environments. The partner deploys an on-premises solution that needs to use Azure services. The partner deploys a virtual appliance.

All network traffic that is directed to a specific subnet must flow through the virtual appliance.

You need to recommend solutions to manage network traffic.

Which two options should you recommend? Each correct answer presents a complete solution.

NOTE: Each correct selection is worth one point.

- A. Configure Azure Traffic Manager
- B. Implement an Azure virtual network
- C. Configure a routing table with forced tunneling



D. Implement Azure ExpressRoute

Correct Answer: CD

C: Forced tunneling lets you redirect or "force" all Internet-bound traffic back to your on-premises location via a Site-to-Site VPN tunnel for inspection and auditing. This is a critical security requirement for most enterprise IT policies. Without forced tunneling, Internet-bound traffic from your VMs in Azure always traverses from Azure network infrastructure directly out to the Internet, without the option to allow you to inspect or audit the traffic.

Forced tunneling in Azure is configured via virtual network user-defined routes.

D: ExpressRoute lets you extend your on-premises networks into the Microsoft cloud over a private connection facilitated by a connectivity provider. With ExpressRoute, you can establish connections to Microsoft cloud services, such as Microsoft Azure, Office 365, and Dynamics 365.

Connectivity can be from an any-to-any (IP VPN) network, a point-to-point Ethernet network, or a virtual cross-connection through a connectivity provider at a co-location facility. ExpressRoute connections do not go over the public Internet. This allows ExpressRoute connections to offer more reliability, faster speeds, lower latencies, and higher security than typical connections over the Internet.

Reference: <https://docs.microsoft.com/en-us/azure/vpn-gateway/vpn-gateway-forced-tunneling-rm>

<https://docs.microsoft.com/en-us/azure/expressroute/expressroute-introduction>

QUESTION 5

HOTSPOT

You are evaluating the components of the migration to Azure that require you to provision an Azure Storage account.

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:

Statements	Yes	No
You must provision an Azure Storage account for the SQL Server database migration.	<input type="radio"/>	<input type="radio"/>
You must provision an Azure Storage account for the Web site content storage.	<input type="radio"/>	<input type="radio"/>
You must provision an Azure Storage account for the Database metric monitoring.	<input type="radio"/>	<input type="radio"/>

Correct Answer:



Statements	Yes	No
You must provision an Azure Storage account for the SQL Server database migration.	<input checked="" type="radio"/>	<input type="radio"/>
You must provision an Azure Storage account for the Web site content storage.	<input type="radio"/>	<input checked="" type="radio"/>
You must provision an Azure Storage account for the Database metric monitoring.	<input checked="" type="radio"/>	<input type="radio"/>

QUESTION 6

You have 70 TB of files on your on-premises file server.

You need to recommend solution for importing data to Azure. The solution must minimize cost.

What Azure service should you recommend?

- A. Azure StorSimple
- B. Azure Stack
- C. Azure Data Box
- D. Azure Batch

Correct Answer: C

Microsoft has engineered an extremely powerful solution that helps customers get their data to the Azure public cloud in a cost-effective, secure, and efficient manner with powerful Azure and machine learning at play. The solution is called

Data Box.

Data Box and is in general availability status. It is a rugged device that allows organizations to have 100 TB of capacity on which to copy their data and then send it to be transferred to Azure.

Incorrect Answers:

A: StoreSimple would not be able to handle 70 TB of data.

References: <https://www.vembu.com/blog/what-is-microsoft-azure-data-box-disk-edge-heavy-gateway-overview/>

QUESTION 7

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.

Your company has an on-premises Active Directory Domain Services (AD DS) domain and an established Azure Active Directory (Azure AD) environment.

Your company would like users to be automatically signed in to cloud apps when they are on their corporate desktops that are connected to the corporate network.

You need to enable single sign-on (SSO) for company users.

Solution: Install and configure an Azure AD Connect server to use pass-through authentication and select the Enable single sign-on option.

Does the solution meet the goal?

A. Yes

B. No

Correct Answer: A

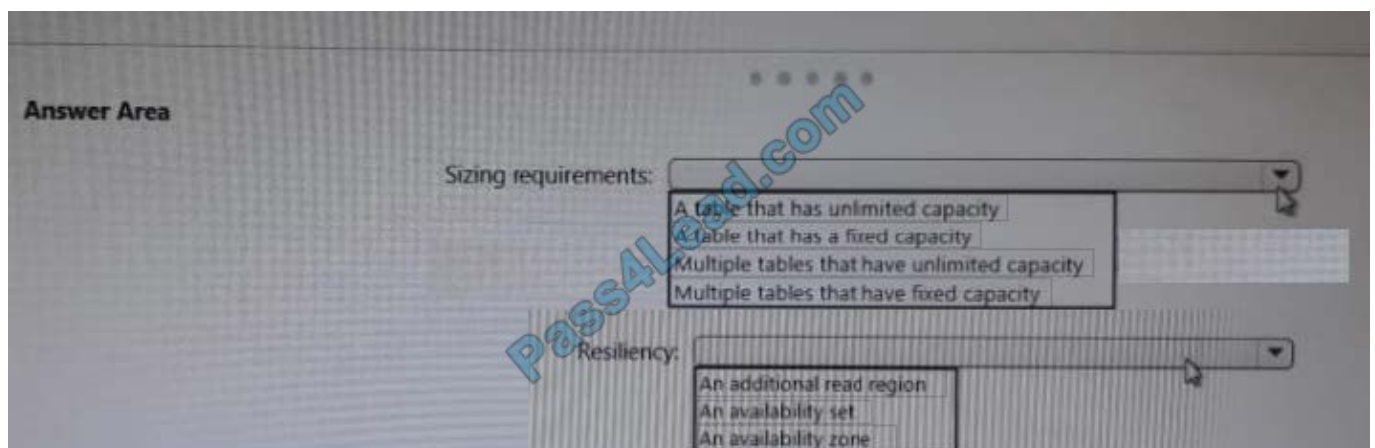
QUESTION 8

You need to recommend a solution for data of the historical transaction query system.

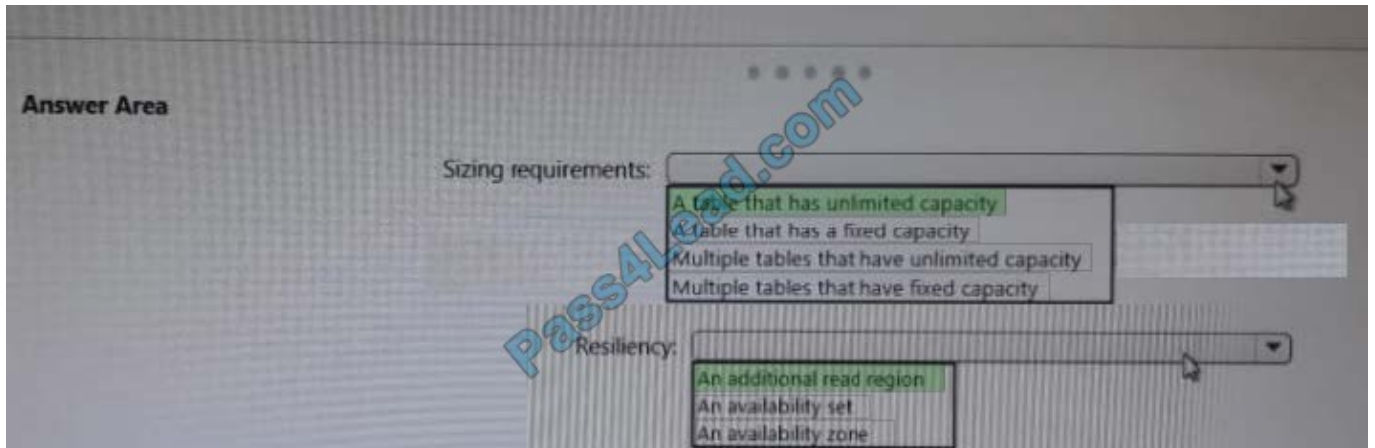
What should you include in the recommendation? To answer, Select the appropriate or options in the answer area.

NOTE: Each correct selection is worth one point

Hot Area:



Correct Answer:



QUESTION 9

To meet the authentication requirements of Fabrikam, what should you include in the solution? To answer, select the appropriate options in the answer area. NOTE: Each correct selection is worth one point.

Hot Area:



Minimum number of Azure AD tenants:

	▼
0	
1	
2	
3	
4	

Minimum number of custom domains to add:

	▼
0	
1	
2	
3	
4	

Minimum number of conditional access policies to create:

	▼
0	
1	
2	
3	
4	

Correct Answer:



Minimum number of Azure AD tenants:

	▼
0	
1	
2	
3	
4	

Minimum number of custom domains to add:

	▼
0	
1	
2	
3	
4	

Minimum number of conditional access policies to create:

	▼
0	
1	
2	
3	
4	

QUESTION 10

You need to design an architecture to capture the creation of users and the assignment of roles. The captured data must be stored in Azure Cosmos DB.

Which Azure services should you include in the design? To answer, drag the appropriate services to the correct targets. Each service may be used once, more than once, or not at all. You need to drag the split bar between panes or scroll to

view content.

NOTE .Each correct selection worth one point.

Select and Place:



Azure Services

Answer Area

- Azure Event Grid
- Azure Event Hubs
- Azure Functions
- Azure Log Analytics
- Azure Notification Hubs



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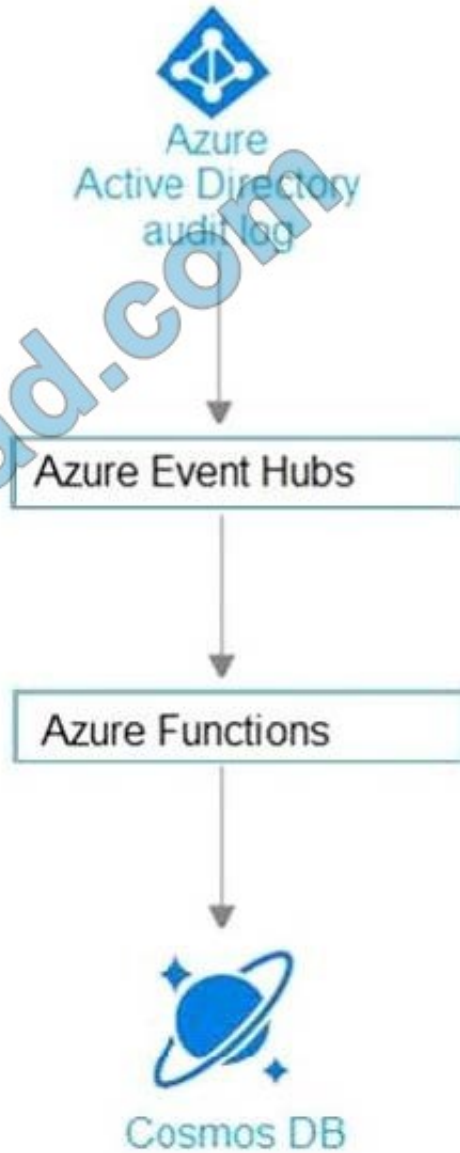
Correct Answer:



Azure Services

Answer Area

- Azure Event Grid
-
-
- Azure Log Analytics
- Azure Notification Hubs



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QUESTION 11

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 are migrating an on-premises application to Azure. One component of the application is a legacy Windows native executable that performs image processing.

The image processing application must run every hour. During times that the image processing application is not running, it should not be consuming any Azure compute resources.

You need to ensure that the image processing application runs correctly every hour.

Solution: Create an Azure Batch application that runs the image processing application every hour.

Does the solution meet the goal?

A. Yes

B. No

Correct Answer: B

Instead use an Azure Logic Apps, which helps you automate workflows that run on a schedule.

Reference: <https://docs.microsoft.com/en-us/azure/logic-apps/tutorial-build-schedule-recurring-logic-app-workflow>

QUESTION 12

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 13

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 a lab in Azure DevTest Lab. Configure the DevTest Labs settings. Assign the DevTest Labs User role to the ResearchUsers group.

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 14

You deploy Azure App Service Web Apps that connect to on-premises Microsoft SQL Server instances by using Azure ExpressRoute. You plan to migrate the SQL Server instances to Azure. Migration of the SQL Server instances to Azure must:

- 1.



Support automatic patching and version updates to SQL Server.

2.

Provide automatic backup services.

3.

Allow for high-availability of the instances.

4.

Provide a native VNET with private IP addressing.

5.

Encrypt all data in transit.

6.

Be in a single-tenant environment with dedicated underlying infrastructure (compute, storage)

You need to migrate the SQL Server instances to Azure.

Which Azure service should you use?

- A. Azure SQL Database with elastic pools
- B. SQL Server in Docker containers running on Azure Kubernetes Service (AKS)
- C. SQL Server Infrastructure-as-a-Service (IaaS) virtual machine (VM)
- D. SQL Server in a Docker container running on Azure Container Instances (ACI)
- E. Azure SQL Database Managed Instance

Correct Answer: E

Azure SQL Database Managed Instance configured for Hybrid workloads. Use this topology if your Azure SQL Database Managed Instance is connected to your on-premises network. This approach provides the most simplified network routing and yields maximum data throughput during the migration.

Reference: <https://docs.microsoft.com/en-us/azure/dms/resource-network-topologies>

QUESTION 15

You have a hybrid deployment of Azure Active Directory (Azure AD).

You need to recommend a solution to ensure that the Azure AD tenant can be managed only from the computers on your on-premises network.

What should you include in the recommendation?

- A. Azure AD roles and administrators



- B. a conditional access policy
- C. Azure AD Application Proxy
- D. Azure AD Privileged Identity Management

Correct Answer: B

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