



# AZ-301<sup>Q&As</sup>

Microsoft Azure Architect Design

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## QUESTION 1

### HOTSPOT

You have 20 Azure virtual machines that run Windows Server 2016 based on a custom virtual machine image. Each virtual machine hosts an instance of a VSS-capable web app that was developed in-house. Each instance is accessed by

using a public endpoint. Each instance uses a separate database. The average database size is 200 GB.

You need to design a disaster recovery solution for individual instances. The solution must meet the following requirements:

1.  
Provide a recovery time objective (RTO) of six hours
  2.  
Provide a recovery point objective (RPO) of eight hours
  3.  
Support recovery to a different Azure region
  4.  
Support VSS-based backups
  5.  
Minimize costs
- What should you include in the recommendation? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Hot Area:



Disaster recovery solution:

- Azure Site Recovery
- Scheduled backups by using an Azure Backup agent
- Scheduled backups by using Windows Server Backup
- Scheduled virtual machine-level backups

Storage type:

- A Recovery Services vault
- Premium managed disks
- Unmanaged disks in an storage account that uses RA-GRS

Correct Answer:

Disaster recovery solution:

- Azure Site Recovery
- Scheduled backups by using an Azure Backup agent
- Scheduled backups by using Windows Server Backup
- Scheduled virtual machine-level backups

Storage type:

- A Recovery Services vault
- Premium managed disks
- Unmanaged disks in an storage account that uses RA-GRS

## QUESTION 2

### HOTSPOT

You have a web application that uses a MongoDB database. You plan to migrate the web application to Azure.

You must migrate to Cosmos DB while minimizing code and configuration changes.

You need to design the Cosmos DB configuration.



What should you recommend? To answer, select the appropriate values in the answer area.

NOTE: Each correct selection is worth one point.

Hot Area:

## MongoDB compatibility

	▼
Database	
API	
Collection	
Account	

API	▼
Cassandra API	
DocumentDB API	
Graph API	
MongoDB API	
Table API	

Correct Answer:



## MongoDB compatibility

Database
<b>API</b>
Collection
Account

Cassandra API
DocumentDB API
Graph API
<b>MongoDB API</b>
Table API

MongoDB compatibility: API

API: MongoDB API

Azure Cosmos DB comes with multiple APIs:

1. SQL API, a JSON document database service that supports SQL queries. This is compatible with the former Azure DocumentDB.
- 2.



MongoDB API, compatible with existing Mongo DB libraries, drivers, tools and applications.

3.

Cassandra API, compatible with existing Apache Cassandra libraries, drivers, tools, and applications.

4.

Azure Table API, a key-value database service compatible with existing Azure Table Storage.

5.

Gremlin (graph) API, a graph database service supporting Apache Tinkerpop's graph traversal language, Gremlin.

Reference: <https://docs.microsoft.com/en-us/azure/cosmos-db/create-mongodb-dotnet>

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### 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 are designing an Azure solution for a company that wants to move a .NET Core web application from an on-premises data center to Azure. The web application relies on a Microsoft SQL Server 2016 database on Windows Server 2016.

The database server will not move to Azure.

A separate networking team is responsible for configuring network permissions.

The company uses Azure ExpressRoute and has an ExpressRoute gateway connected to an Azure virtual network named VNET1.

You need to recommend a solution for deploying the web application.

Solution: Deploy the web application by using an Azure Kubernetes Service (AKS) container on VNET1.

Does this meet the goal?

A. Yes

B. No

Correct Answer: B

Instead, use VNet Integration.

Note: VNet Integration gives your web app access to resources in your virtual network. VNet Integration is often used to enable access from apps to a databases and web services running in your VNet.

Reference:



<https://docs.microsoft.com/en-us/azure/app-service/web-sites-integrate-with-vnet>

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#### QUESTION 4

You need to recommend a data storage strategy for WebApp1. What should you include in the recommendation?

- A. an Azure SQL Database elastic pool
- B. a vCore-based Azure SQL database
- C. an Azure virtual machine that runs SQL Server
- D. a fixed-size DTU Azure SQL database.

Correct Answer: B

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#### QUESTION 5

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

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#### QUESTION 6

HOTSPOT



You plan to deploy a network-intensive application to several Azure virtual machines.

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

1.

Minimizes the use of the virtual machine processors to transfer data

2.

Minimizes network latency

Which virtual machine size and feature 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

Virtual machine size:

	▼
Compute optimized Standard_F8s	
General purpose Standard_B8ms	
High performance compute Standard_H16r	
Memory optimized Standard_E16s_v3	

Feature:

	▼
Receive side scaling (RSS)	
Remote Direct Memory Access (RDMA)	
Single root I/O virtualization (SR-IOV)	
Virtual Machine Multi-Queue (VMMQ)	

Correct Answer:



## Answer Area

Virtual machine size:

▼
Compute optimized Standard_F8s
General purpose Standard_B8ms
High performance compute Standard_H16r
Memory optimized Standard_E16s_v3

Feature:

▼
Receive side scaling (RSS)
Remote Direct Memory Access (RDMA)
Single root I/O virtualization (SR-IOV)
Virtual Machine Multi-Queue (VMMQ)

References: <https://docs.microsoft.com/en-us/azure/virtual-machines/windows/sizes-hpc#h-series>

### QUESTION 7

You have an Azure subscription.

Your on-premises network contains a file server named Server1. Server1 stores 5 TB of company files that are accessed rarely.

You plan to copy the files to Azure Storage.

You need to implement a storage solution for the files that meets the following requirements:

1.

The files must be available within 24 hours of being requested.

2.

Storage costs must be minimized.

Which two possible storage solutions achieve this goal? Each correct answer presents a complete solution.

NOTE: Each correct selection is worth one point.

A. Create a general-purpose v2 storage account that is set to the Cool access tier. Create a file share in the storage account and copy the files to the file share.

B. Create a general-purpose v2 storage account that is set to the Hot access tier. Create a blob container, copy the files to the blob container, and set each file to the Archive access tier.



C. Create a general-purpose v1 storage account. Create a file share in the storage account and copy the files to the file share.

D. Create an Azure Blob storage account that is set to the Cool access tier. Create a blob container, copy the files to the blob container, and set each file to the Archive access tier.

E. Create a general-purpose v1 storage account. Create a blob container and copy the files to the blob container.

Correct Answer: AE

A: Azure storage offers different access tiers, which allow you to store blob object data in the most cost-effective manner.

The Cool access tier is optimized for storing data that is infrequently accessed and stored for at least 30 days.

E: Using a file share is cheaper than using a blob container.

Incorrect Answers:

B, D: The Archive tier is optimized for storing data that is rarely accessed and stored for at least 180 days with flexible latency requirements (on the order of hours).

C: Using a Blob container would be cheaper than using a file share.

References:

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

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## QUESTION 8

You have 100 Standard\_F2s\_v2 Azure virtual machines. Each virtual machine has two network adapters.

You need to increase the network performance of the workloads running on the virtual machines. The solution must meet the following requirements:

1.

The CPU-to-memory ratio must remain the same.

2.

The solution must minimize costs. What should you do?

A. Configure NIC teaming

B. Enable RDMA over InfiniBand

C. Enable Accelerated Networking.

D. Install an additional network adapter

Correct Answer: C

Accelerated networking enables single root I/O virtualization (SR-IOV) to a VM, greatly improving its networking performance. This high-performance path bypasses the host from the datapath, reducing latency, jitter, and CPU



utilization, for use with the most demanding network workloads on supported VM types.

Reference: <https://docs.microsoft.com/en-us/azure/virtual-network/create-vm-accelerated-networking-cli>

### QUESTION 9

Your company identifies the following business continuity and disaster recovery objectives for virtual machines that host sales, finance, and reporting application in the company's on-premises data center.

The finance application requires that data be retained for seven years. In the event of a disaster, the application must be able to run from Azure. The recovery in objective (RTO) is 10 minutes,

The reporting application must be able to recover point in-time data at a daily granularity. The RTO is eight hours.

The sales application must be able to fail over to second on-premises data center.

You need to recommend which Azure services meet the business continuity and disaster recovery objectives. The solution must minimize costs.

What should you recommend for each application? To answer, drag the appropriate services to the correct application. Each service may be used once or more than once. You may need to drag the spin bar between panes or scroll 10

view content.

Select and Place:

#### Actions

- Azure Backup only
- Azure Site Recovery only
- Azure Site Recovery and Azure Backup

#### Answer Area

⏪ Sales: Service or Services  
⏩ Finance: Service or Services  
 Reporting: Service or Services

Correct Answer:

#### Actions

- 
- 
- 

#### Answer Area

⏪ Sales: Azure Site Recovery and Azure Backup  
⏩ Finance: Azure Backup only  
 Reporting: Azure Site Recovery only



### QUESTION 10

You plan to create a new web app named WebApp8.

You need to ensure that all the resources for WebApp8 run in the West US location.

What should you do first?

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

- A. Modify the homepage 11234827 Azure App Service
- B. Modify the Azure App Service plan of the home page
- C. Deploy Azure Traffic Manager
- D. Create a new Azure App Service plan

Correct Answer: D

In App Service, an app runs in an App Service plan. An App Service plan defines a set of compute resources for a web app to run.

When you create an App Service plan in a certain region (for example, West Europe), a set of compute resources is created for that plan in that region.

Incorrect Answers:

B: You cannot change the location of an app service plan, regardless of subscription type. You simply need to create a new app service plan in the region you want

References: <https://docs.microsoft.com/en-us/azure/app-service/overview-hosting-plans>

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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 have an Azure subscription named Project1. Only a group named Project1admins is assigned roles in the Project1 subscription. The Project1 subscription contains all the resources for an application named Application1.

Your company is developing a new application named Application2. The members of the Application2 development team belong to an Azure Active Directory (Azure AD) group named App2Dev.

You identify the following requirements for Application2:



1.

The members of App2Dev must be prevented from changing the role assignments in Azure.

2.

The members of App2Dev must be able to create new Azure resources required by Application2.

3.

All the required role assignments for Application2 will be performed by the members of Project1admins.

You need to recommend a solution for the role assignments of Application2.

Solution: Create a new Azure subscription named Project2. Assign Project1admins the User Access Administrator role for the Project2 subscription. Assign App2Dev the Owner role for the Project2 subscription.

Does this meet the goal?

A. Yes

B. No

Correct Answer: B

Instead, assign Project1admins the Owner role for the Project2 subscription. Assign App2Dev the Contributor role for the Project2 subscription.

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## 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.

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 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 StorSimple in the design.

Does the solution meet the goal?

A. Yes

B. No

Correct Answer: A



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