



# AZ-305<sup>Q&As</sup>

Designing Microsoft Azure Infrastructure Solutions

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**QUESTION 1**

**HOTSPOT**

You have an Azure subscription that contains the storage accounts shown in the following table.

Name	Type	Performance
storage1	StorageV2	Standard
storage2	StorageV2	Premium
storage3	BlobStorage	Standard
storage4	FileStorage	Premium

You plan to implement two new apps that have the requirements shown in the following table.

Name	Requirement
App1	Use lifecycle management to migrate app data between storage tiers
App2	Store app data in an Azure file share

Which storage accounts should you recommend using for each app? To answer, select the appropriate options in the answer area. NOTE: Each correct selection is worth one point.

Hot Area:



## Answer Area

App1:

	▼
Storage1 and storage2 only	
Storage1 and storage3 only	
Storage1, storage2, and storage3 only	
Storage1, storage2, storage3, and storage4	

App2:

	▼
Storage4 only	
Storage1 and storage4 only	
Storage1, storage2, and storage4 only	
Storage1, storage2, storage3, and storage4	

Correct Answer:



## Answer Area

App1:

	▼
Storage1 and storage2 only	
Storage1 and storage3 only	
Storage1, storage2, and storage3 only	
Storage1, storage2, storage3, and storage4	

App2:

	▼
Storage4 only	
Storage1 and storage4 only	
Storage1, storage2, and storage4 only	
Storage1, storage2, storage3, and storage4	

In conclusion the correct answers are: Box1 --> Storage1 and Storage3 only Box2 --> Storage1 and Storage4 only

<https://docs.microsoft.com/en-us/azure/storage/common/storage-account-overview>

<https://www.edureka.co/community/40011/different-storage-accounts-there-major-difference-between>

<https://insidemstech.com/tag/general-purpose-v2/> <https://docs.microsoft.com/en-us/azure/storage/files/storage-how-to-create-file-share?tabs=azure-portal#basics>

### QUESTION 2

#### HOTSPOT

You have an Azure Load Balancer named LB1 that balances requests to five Azure virtual machines.

You need to develop a monitoring solution for LB1. The solution must generate an alert when any of the following conditions are met:

1.

A virtual machine is unavailable.

2.

Connection attempts exceed 50,000 per minute.

Which signal should you include in the solution for each condition? To answer, select the appropriate options in the answer area.



NOTE: Each correct selection is worth one point.

Hot Area:

## Answer Area

An unavailable virtual machine:

	▼
Byte Count	
Data Path Availability	
Health Probe Status	
Packet Count	
SYN Count	

More than 50,000 connection attempts per minute:

	▼
Byte Count	
Data Path Availability	
Health Probe Status	
Packet Count	
SYN Count	

Correct Answer:



## Answer Area

An unavailable virtual machine:

	▼
Byte Count	
Data Path Availability	
Health Probe Status	
Packet Count	
SYN Count	

More than 50,000 connection attempts per minute:

	▼
Byte Count	
Data Path Availability	
Health Probe Status	
Packet Count	
SYN Count	

Box 1: Data path availability

Standard Load Balancer continuously exercises the data path from within a region to the load balancer front end, all the way to the SDN stack that supports your VM. As long as healthy instances remain, the measurement follows the same path as your application's load-balanced traffic. The data path that your customers use is also validated. The measurement is invisible to your application and does not interfere with other operations.

Note: Load balancer distributes inbound flows that arrive at the load balancer's front end to backend pool instances. These flows are according to configured load-balancing rules and health probes. The backend pool instances can be Azure

Virtual Machines or instances in a virtual machine scale set.

Box 2: SYN count

SYN (synchronize) count: Standard Load Balancer does not terminate Transmission Control Protocol (TCP) connections or interact with TCP or UDP packet flows. Flows and their handshakes are always between the source and the VM

instance. To better troubleshoot your TCP protocol scenarios, you can make use of SYN packets counters to understand how many TCP connection attempts are made. The metric reports the number of TCP SYN packets that were received.

Incorrect Answers:

Health probe status: Standard Load Balancer uses a distributed health-probing service that monitors your application endpoint's health according to your configuration settings. This metric provides an aggregate or per-endpoint filtered view of



each instance endpoint in the load balancer pool. You can see how Load Balancer views the health of your application, as indicated by your health probe configuration.

Packet count: Standard Load Balancer reports the packets processed per front end.

Byte Count: Standard Load Balancer reports the data processed per front end. You may notice that the bytes are not distributed equally across the backend instances. This is expected as Azure's Load Balancer algorithm is based on flows

Reference:

<https://docs.microsoft.com/en-us/azure/load-balancer/load-balancer-standard-diagnostics>

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### QUESTION 3

You plan to move a web application named App1 from an on-premises data center to Azure.

App1 depends on a custom COM component that is installed on the host server.

You need to recommend a solution to host App1 in Azure.

The solution must meet the following requirements:

1.

App1 must be available to users if an Azure data center becomes unavailable.

2.

Costs must be minimized.

What should you include in the recommendation?

A. In two Azure regions, deploy a load balancer and a virtual machine scale set.

B. In two Azure regions, deploy a Traffic Manager profile and a web app.

C. In two Azure regions, deploy a load balancer and a web app.

D. Deploy a load balancer and a virtual machine scale set across two availability zones.

Correct Answer: D

(<https://docs.microsoft.com/en-us/dotnet/azure/migration/app-service#com-and-com-components>)

Azure App Service does not allow the registration of COM components on the platform. If your app makes use of any COM components, these need to be rewritten in managed code and deployed with the site or application.

<https://docs.microsoft.com/en-us/dotnet/azure/migration/app-service>

"Azure App Service with Windows Containers If your app cannot be migrated directly to App Service, consider App Service using Windows Containers, which enables usage of the GAC, COM components, MSIs, full access to .NET FX APIs,

DirectX, and more."

**QUESTION 4**

You have to design a Data Engineering solution for your company. The company currently has an Azure subscription. They also have application data hosted in a database on a Microsoft SQL Server hosted in their on-premises data center

server. They want to implement the following requirements Transfer transactional data from the on-premises SQL server onto a data warehouse in Azure. Data needs to be transferred every day in the night as a scheduled job.

A managed Spark cluster needs to be in place for data engineers to perform analysis on the data stored in the SQL data warehouse.

Here the data engineers should have the ability to develop notebooks in Scale, R and Python.

They also need to have a data lake store in place for the ingestion of data from multiple data sources

Which of the following would the use for hosting the data warehouse in Azure?

- A. Azure Data Factory
- B. Azure Databricks
- C. Azure Data Lake Gen2 Storage accounts
- D. Azure Synapse Analytics

Correct Answer: D

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**QUESTION 5****DRAG DROP**

You plan to deploy Azure virtual machines (VMs) that run a mission-critical application.

You need to minimize the possibility that the application will experience down time.

What should you recommend? To answer, drag the appropriate solutions to the correct scenarios. Each solution 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:





### Solutions

Fault Domain

Availability Zone

Availability Set

Scale Sets

### Answer Area

#### Scenario

#### Solution

Automatically change the number of VMs running the application.

Maintain application availability when an Azure datacenter fails.

Correct Answer:

### Solutions

Fault Domain

Availability Zone

### Answer Area

#### Scenario

#### Solution

Automatically change the number of VMs running the application.

Scale Sets

Maintain application availability when an Azure datacenter fails.

Availability Set

**Box 1: Scale set**

A virtual machine scale set allows you to deploy and manage a set of identical, autoscaling virtual machines.

**Box 2: Availability Set**

An Availability Set is a logical grouping capability for isolating VM resources from each other when they're deployed. Azure makes sure that the VMs you place within an Availability Set run across multiple physical servers, compute racks, storage units, and network switches. If a hardware or software failure happens, only a subset of your VMs are impacted and your overall solution stays operational. Availability Sets are essential for building reliable cloud solutions.

**Incorrect Answers:**

An update domain is a group of VMs and underlying physical hardware that can be rebooted at the same time.

**Reference:**

<https://docs.microsoft.com/en-us/azure/virtual-machines/windows/tutorial-create-vmss>

<https://docs.microsoft.com/en-us/azure/virtual-machines/windows/tutorial-availability-sets>

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**QUESTION 6****HOTSPOT**

You plan to deploy Azure Databricks to support a machine learning application. Data engineers will mount an Azure Data Lake Storage account to the Databricks file system. Permissions to folders are granted directly to the data engineers.

You need to recommend a design for the planned Databrick deployment. The solution must meet the following requirements:

1.

Ensure that the data engineers can only access folders to which they have permissions.

2.

Minimize development effort.

3.

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:



## Answer Area

Databricks SKU:

	▼
Premium	
Standard	

Cluster configuration:

	▼
Credential passthrough	
Managed identities	
MLflow	
A runtime that contains Photon	
Secret scope	

Correct Answer:

## Answer Area

Databricks SKU:

	▼
Premium	
Standard	

Cluster configuration:

	▼
Credential passthrough	
Managed identities	
MLflow	
A runtime that contains Photon	
Secret scope	

Box 1: Standard

Choose Standard to minimize costs.



## Box 2: Credential passthrough

Authenticate automatically to Azure Data Lake Storage Gen1 (ADLS Gen1) and Azure Data Lake Storage Gen2 (ADLS Gen2) from Azure Databricks clusters using the same Azure Active Directory (Azure AD) identity that you use to log into

Azure Databricks. When you enable Azure Data Lake Storage credential passthrough for your cluster, commands that you run on that cluster can read and write data in Azure Data Lake Storage without requiring you to configure service

principal credentials for access to storage.

Reference:

<https://docs.microsoft.com/en-us/azure/databricks/security/credential-passthrough/adls-passthrough>

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## QUESTION 7

What should you recommend to meet the monitoring requirements for App2?

- A. VM insights
- B. Azure Application Insights
- C. Microsoft Sentinel
- D. Container insights

Correct Answer: B

Scenario: You need to monitor App2 to analyze how long it takes to perform different transactions within the application. The solution must not require changes to the application code.

Unified cross-component transaction diagnostics.

The unified diagnostics experience automatically correlates server-side telemetry from across all your Application Insights monitored components into a single view. It doesn't matter if you have multiple resources. Application Insights detects

the underlying relationship and allows you to easily diagnose the application component, dependency, or exception that caused a transaction slowdown or failure.

Note: Components are independently deployable parts of your distributed/microservices application. Developers and operations teams have code-level visibility or access to telemetry generated by these application components.

Reference: <https://docs.microsoft.com/en-us/azure/azure-monitor/app/transaction-diagnostics>

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## QUESTION 8

You are designing an app that will include two components. The components will communicate by sending messages via a queue.

You need to recommend a solution to process the messages by using a First in. First out (FIFO) pattern.

What should you include in the recommendation?



- A. storage queues with a custom metadata setting
- B. Azure Service Bus queues with sessions enabled
- C. Azure Service Bus queues with partitioning enabled
- D. storage queues with a stored access policy

Correct Answer: B

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#### QUESTION 9

You need to recommend an App Service architecture that meets the requirements for App1.

The solution must minimize costs.

What should you recommend?

- A. one App Service Environment (ASE) per availability zone
- B. one App Service plan per availability zone
- C. one App Service plan per region
- D. one App Service Environment (ASE) per region

Correct Answer: C

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#### QUESTION 10

You have an Azure SQL database named DB1.

You plan to create the following four tables in DB1 by using the following code:



## Table1.

```
CREATE TABLE Table1
(
    StudentId INT IDENTITY PRIMARY KEY,
    PersonId INT REFERENCES Table4 (PersonId),
    Email NVARCHAR(256)
)
```

## Table2.

```
CREATE TABLE Table2
(
    StudentId INT REFERENCES Table1 (StudentId),
    CourseId INT REFERENCES Table3 (CourseId),
    Grade DECIMAL(5,2) CHECK (Grade <= 100.00),
    Attempt TINYINT
)
```

## Table3.

```
CREATE TABLE Table3
(
    CourseId INT IDENTITY PRIMARY KEY,
    Name NVARCHAR(50) NOT NULL,
    Teacher NVARCHAR(256) NOT NULL
)
```

## Table4.

```
CREATE TABLE Table4
(
    PersonId INT IDENTITY PRIMARY KEY,
    FirstName NVARCHAR(128) NOT NULL,
    MiddleInitial NVARCHAR(10),
    LastName NVARCHAR(128) NOT NULL,
    DateOfBirth DATE NOT NULL
)
```

A. Table 1



B. Table 2

C. Table 3

D. Table 4

Correct Answer: B

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### QUESTION 11

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 deployed several virtual machines (VMs) on-premises and to Azure. Azure ExpressRoute has been deployed and configured for on-premises to Azure connectivity.

Several VMs are exhibiting network connectivity issues.

You need to analyze the network traffic to determine whether packets are being allowed or denied to the VMs.

Solution: Use the Azure Traffic Analytics solution in Azure Log Analytics to analyze the network traffic.

Does the solution meet the goal?

A. Yes

B. No

Correct Answer: B

Instead use Azure Network Watcher to run IP flow verify to analyze the network traffic.

Reference: <https://docs.microsoft.com/en-us/azure/network-watcher/network-watcher-monitoring-overview>

<https://docs.microsoft.com/en-us/azure/network-watcher/network-watcher-ip-flow-verify-overview>

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### QUESTION 12

You need to recommend a strategy for the web tier of WebApp1. The solution must minimize What should you recommend?

A. Create a runbook that resizes virtual machines automatically to a smaller size outside of business hours.

B. Configure the Scale Up settings for a web app.

C. Deploy a virtual machine scale set that scales out on a 75 percent CPU threshold.

D. Configure the Scale Out settings for a web app.



Correct Answer: A

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### QUESTION 13

You plan to migrate App1 to Azure. The solution must meet the authentication and authorization requirements. Which type of endpoint should App1 use to obtain an access token?

- A. Azure Instance Metadata Service (IMDS)
- B. Azure AD
- C. Azure Service Management
- D. Microsoft identity platform

Correct Answer: D

Scenario: To access the resources in Azure, App1 must use the managed identity of the virtual machines that will host the app.

Managed identities provide an identity for applications to use when connecting to resources that support Azure Active Directory (Azure AD) authentication. Applications may use the managed identity to obtain Azure AD tokens.

Reference:

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

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