

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

Designing Microsoft Azure Infrastructure Solutions

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## QUESTION 1

Your company plans to use a separate Azure subscription for each of its business units. You identify the following governance requirements:

1.  
Each business unit will analyze costs for different workloads such as production, development, and testing.
2.  
The company will analyze costs by business unit and workload. What should you use to meet the governance requirements?
  - A. Azure Advisor alerts and Azure Logic Apps
  - B. Microsoft Intune and compliance policies
  - C. Azure management groups and RBAC
  - D. tags and Azure Policy

Correct Answer: D

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## QUESTION 2

DRAG DROP

You have an Azure subscription. The subscription contains Azure virtual machines that run Windows Server 2016 and Linux.

You need to use Azure Monitor to design an alerting strategy for security-related events.

Which Azure Monitor Logs tables should you query? To answer, drag the appropriate tables to the correct log types. Each table 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:

Tables		Answer Area
AzureActivity		Events from Windows event logs: Table
AzureDiagnostics	●	Events from Linux system logging: Table
Event	●	
Syslog	●	

Correct Answer:

Tables		Answer Area
AzureActivity		Events from Windows event logs: Event
AzureDiagnostics	●	Events from Linux system logging: Syslog
	●	
	●	

Reference: <https://docs.microsoft.com/en-us/azure/azure-monitor/platform/data-sources-windows-events>

<https://docs.microsoft.com/en-us/azure/azure-monitor/agents/data-sources-syslog>

### QUESTION 3

#### HOTSPOT

You plan to migrate DB1 and DB2 to Azure.

You need to ensure that the Azure database and the service tier meet the resiliency and business requirements.

What should you configure? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Hot Area:

### Answer Area

Database:

	▼
A single Azure SQL database	
Azure SQL Managed Instance	
An Azure SQL Database elastic pool	

Service tier:

	▼
Hyperscale	
Business Critical	
General Purpose	

Correct Answer:

## Answer Area

Database:

	▼
A single Azure SQL database	
Azure SQL Managed Instance	
An Azure SOL Database elastic pool	

Service tier:

	▼
Hyperscale	
Business Critical	
General Purpose	

Box 1: SQL Managed Instance

Scenario: Once migrated to Azure, DB1 and DB2 must meet the following requirements:

1.

Maintain availability if two availability zones in the local Azure region fail.

2.

Fail over automatically.

3.

Minimize I/O latency.

The auto-failover groups feature allows you to manage the replication and failover of a group of databases on a server or all databases in a managed instance to another region. It is a declarative abstraction on top of the existing active georeplication feature, designed to simplify deployment and management of geo-replicated databases at scale. You can initiate a geo-failover manually or you can delegate it to the Azure service based on a user-defined policy. The latter option

allows you to automatically recover multiple related databases in a secondary region after a catastrophic failure or other unplanned event that results in full or partial loss of the SQL Database or SQL Managed Instance availability in the

primary region.

Box 2: Business critical

SQL Managed Instance is available in two service tiers:

General purpose: Designed for applications with typical performance and I/O latency requirements.

Business critical: Designed for applications with low I/O latency requirements and minimal impact of underlying maintenance operations on the workload.

Reference:

<https://docs.microsoft.com/en-us/azure/azure-sql/database/auto-failover-group-overview>

<https://docs.microsoft.com/en-us/azure/azure-sql/managed-instance/sql-managed-instance-paas-overview>

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## QUESTION 4

You plan to deploy multiple instances of an Azure web app across several Azure regions.

You need to design an access solution for the app. The solution must meet the following replication requirements:

Support rate limiting.

Balance requests between all instances.

Ensure that users can access the app in the event of a regional outage.

Solution: You use Azure Front Door to provide access to the app.

Does this meet the goal?

A. Yes

B. No

Correct Answer: A

Azure Front Door meets the requirements. The Azure Web Application Firewall (WAF) rate limit rule for Azure Front Door controls the number of requests allowed from clients during a one-minute duration.

Reference:

<https://www.nginx.com/blog/nginx-plus-and-azure-load-balancers-on-microsoft-azure/>

<https://docs.microsoft.com/en-us/azure/web-application-firewall/afds/waf-front-door-rate-limit-powershell>

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## QUESTION 5

You are designing an app that will use Azure Cosmos DB to collate sales data from multiple countries. You need to recommend an API for the app. The solution must meet the following requirements:

Support SQL queries.

Support geo-replication.

Store and access data relationally.

Which API should you recommend?

- A. PostgreSQL
- B. NoSQL
- C. Apache Cassandra
- D. MongoDB

Correct Answer: A

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