AZ-305^{Q&As}

Designing Microsoft Azure Infrastructure Solutions

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QUESTION 1

HOTSPOT

You have five .NET Core applications that run on 10 Azure virtual machines in the same subscription.

You need to recommend a solution to ensure that the applications can authenticate by using the same Azure Active Directory (Azure AD) identity. The solution must meet the following requirements:

Ensure that the applications can authenticate only when running on the 10 virtual machines.

Minimize administrative effort.

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:

To provision the Azure AD identity:

▼
Create a system-assigned Managed Service Identity
Create a user-assigned Managed Service Identity
Register each application in Azure AD

To authenticate request a token by using:

▼
An Azure AD v1.0 endpoint
An Azure AD v2.0 endpoint
An Azure Instance Metadata Service Identity
OAuth2 endpoint

Correct Answer:

To provision the Azure AD identity:

▼
Create a system-assigned Managed Service Identity
Create a user-assigned Managed Service Identity
Register each application in Azure AD

To authenticate request a token by using:

▼
An Azure AD v1.0 endpoint
An Azure AD v2.0 endpoint
An Azure Instance Metadata Service Identity
OAuth2 endpoint

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QUESTION 2

HOTSPOT

You plan to deploy a custom database solution that will have multiple instances as shown in the following table.

Host virtual machine	Azure Availability Zone	Azure region
USDB1	1	US East
USDB2	2	US East
USDB3	3	US East
EUDB1	1	West Europe
EUDB2	2	West Europe
EUDB3	3	West Europe

Client applications will access database servers by using db.contoso.com.

You need to recommend load balancing services for the planned deployment. The solution must meet the following requirements:

Access to at least one database server must be maintained in the event of a regional outage.

The virtual machines must not connect to the internet directly.

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.
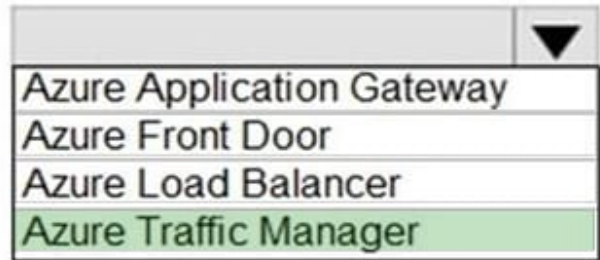
Hot Area:

Global load balancing service:

▼
Azure Application Gateway
Azure Front Door
Azure Load Balancer
Azure Traffic Manager

Availability Zone load balancing service:
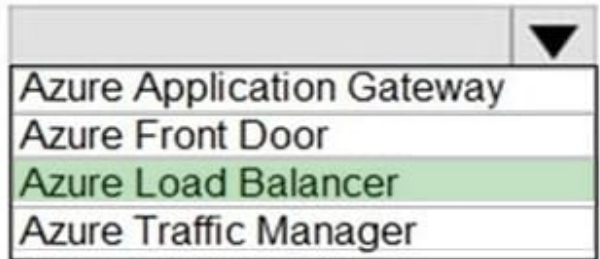
▼
Azure Application Gateway
Azure Front Door
Azure Load Balancer
Azure Traffic Manager

Correct Answer:

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Global load balancing service:

Azure Application Gateway
Azure Front Door
Azure Load Balancer
Azure Traffic Manager

Availability Zone load balancing service:

Azure Application Gateway
Azure Front Door
Azure Load Balancer
Azure Traffic Manager

Box 1: Azure Traffic Manager Traffic Manager is a DNS-based traffic load balancer that enables you to distribute traffic optimally to services across global Azure regions, while providing high availability and responsiveness. Because Traffic Manager is a DNS-based load-balancing service, it load balances only at the domain level. For that reason, it can\\'t fail over as quickly as Front Door, because of common challenges around DNS caching and systems not honoring DNS TTLs.

Service	Global/regional	Recommended traffic
Azure Front Door	Global	HTTP(S)
Traffic Manager	Global	non-HTTP(S)
Application Gateway	Regional	HTTP(S)
Azure Load Balancer	Regional	non-HTTP(S)

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 app named App1 that uses data from two on-premises Microsoft SQL Server databases named DB1 and DB2.

You plan to move DB1 and DB2 to Azure.

You need to implement Azure services to host DB1 and DB2. The solution must support server-side transactions across DB1 and DB2.

Solution: You deploy DB1 and DB2 to an Azure SQL Database managed instance.

Does this meet the goal?

A. Yes

B. No

Correct Answer: B

Instead deploy DB1 and DB2 to SQL Server on an Azure virtual machine.

Note: Understanding distributed transactions.

When both the database management system and client are under the same ownership (e.g. when SQL Server is deployed to a virtual machine), transactions are available and the lock duration can be controlled.

Reference:

https://docs.particular.net/nservicebus/azure/understanding-transactionality-in-azure

QUESTION 4

You ate designing an Azure governance solution.

All Azure resources must be easily identifiable based on the following operational information environment, owner, department and cost center

You need 10 ensure that you can use the operational information when you generate reports for the Azure resources.

What should you include in the solution?

A. Azure Active Directory (Azure AD) administrative units

B. an Azure data catalog that uses the Azure REST API as a data source

C. an Azure policy that enforces tagging rules

D. an Azure management group that uses parent groups to create a hierarchy

Correct Answer: C

QUESTION 5

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."