



AZ-301^{Q&As}

Microsoft Azure Architect Design

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**QUESTION 1**

You have 100 servers that run Windows Server 2012 R2 and host Microsoft SQL Server 2012 R2 instances. The instances host databases that have the following characteristics:

1.

The largest database is currently 3 TB. None of the databases will ever exceed 4 TB.

2.

Stored procedures are implemented by using CLR.

You plan to move all the data from SQL Server to Azure.

You need to recommend an Azure service to host the databases. The solution must meet the following requirements:

1.

Whenever possible, minimize management overhead for the migrated databases.

2.

Minimize the number of database changes required to facilitate the migration.

3.

Ensure that users can authenticate by using their Active Directory credentials.

What should you include in the recommendation?

A. Azure SQL Database single databases

B. Azure SQL Database Managed Instance

C. Azure SQL Database elastic pools

D. SQL Server 2016 on Azure virtual machines

Correct Answer: B

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

QUESTION 2

You are designing an Azure Web App that includes many static content files.

The application is accessed from locations all over the world by using a custom domain name.

You need to recommend an approach for providing access to the static content with the least amount of latency.

Which two actions should you recommend? Each correct answer presents part of the solution.



NOTE: Each correct selection is worth one point.

- A. Configure a custom domain name that is an alias for the Azure Storage domain.
- B. Configure a CNAME DNS record for the Azure Content Delivery Network (CDN) domain.
- C. Place the static content in Azure Table storage.
- D. Place the static content in Azure Blob storage and enable Content Delivery Network (CDN) on the account.

Correct Answer: BD

D: Add Azure Content Delivery Network (CDN) to a web app in Azure App Service.

B: When you use a CDN endpoint to deliver content, a custom domain is necessary if you would like your own domain name to be visible in your CDN URL. Having a visible domain name can be convenient for your customers and useful for

branding purposes.

Create a CNAME DNS record, and associate the custom domain with your CDN endpoint.

Reference:

<https://docs.microsoft.com/en-us/azure/cdn/cdn-map-content-to-custom-domain>

<https://docs.microsoft.com/en-us/azure/cdn/cdn-add-to-web-app>

QUESTION 3

HOTSPOT

You have an Azure environment that contains the Azure subscription and the virtual networks shown in the following table.

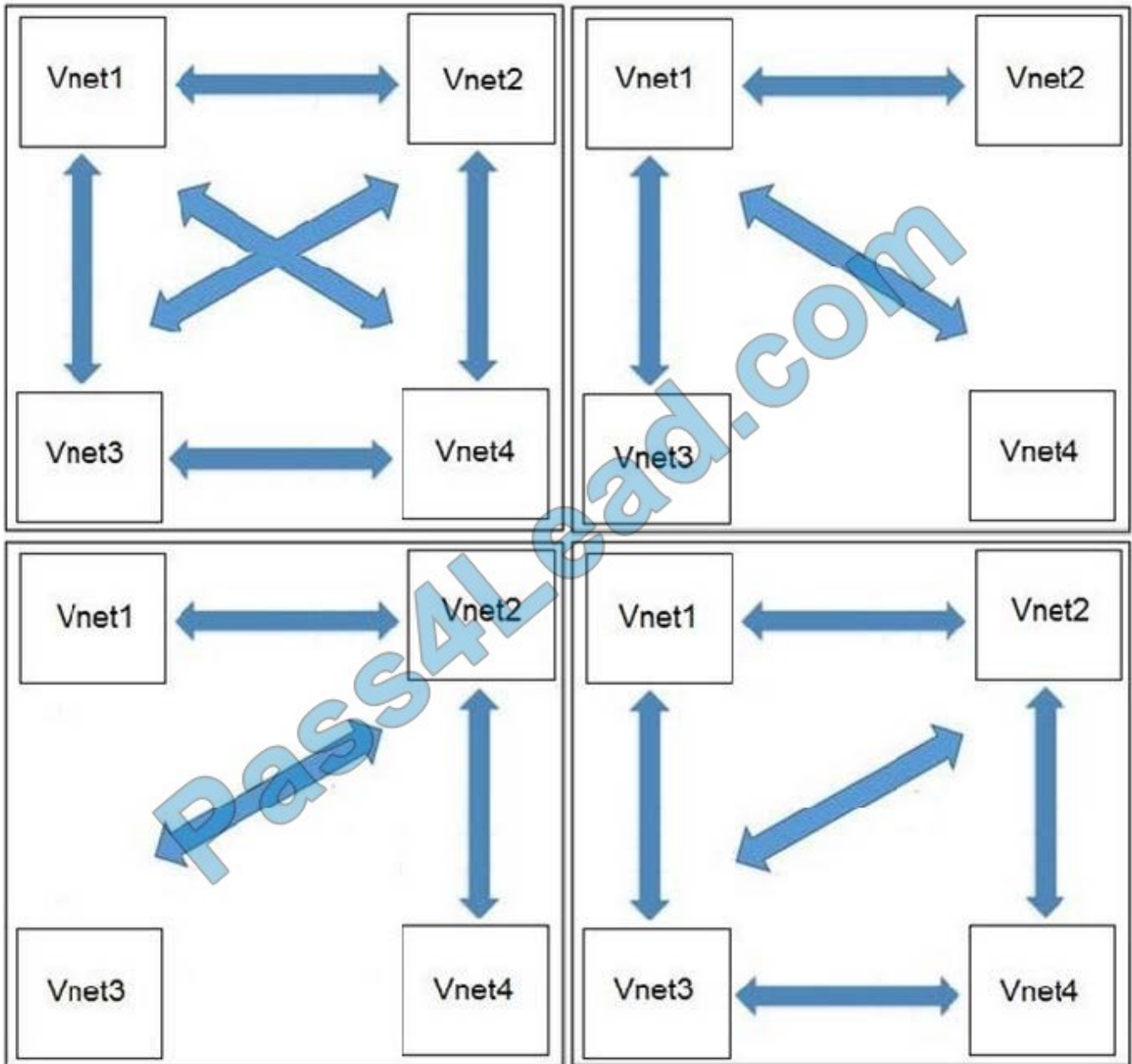
Virtual network name	Subscription name	Virtual network type
Vnet1	Subscription1	Classic mode
Vnet2	Subscription1	Resource Manager
Vnet3	Subscription1	Resource Manager
Vnet4	Subscription2	Resource Manager

You need to recommend a virtual network peering solution to ensure that the resources connected to any other virtual network. The solution must minimize administrative effort. Which virtual network peering topology should you recommend?

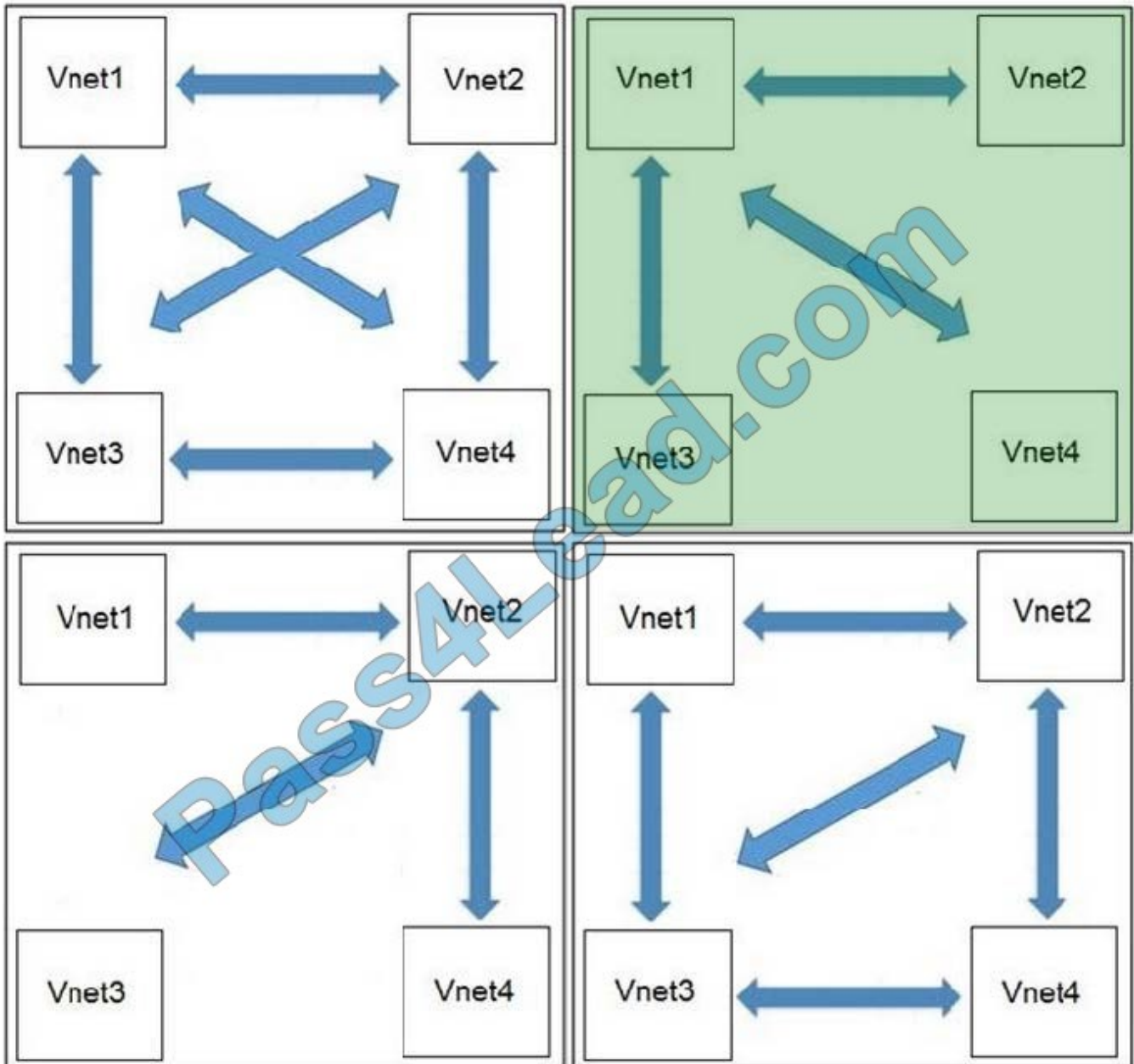
To answer, select the appropriate topology in the answer area.

NOTE: Each correct selection is worth one point.

Hot Area:



Correct Answer:



QUESTION 4

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 5

HOTSPOT

A company plans to implement an HTTP-based API to support a web app. The web app allows customers to check the status of their orders.

The API must meet the following requirements:

1.

Implement Azure Functions

2.

Provide public read-only operations

3.

Do not allow write operations

You need to recommend configuration options.

What should you recommend? To answer, configure the appropriate options in the dialog box in the answer area.

NOTE: Each correct selection is worth one point.

Hot Area:



Allowed authentication methods

▼
All methods
GET only
GET and POST only
GET, POST, and OPTIONS only

Authorization level

▼
Function
Anonymous
Admin

Correct Answer:

Allowed authentication methods

▼
All methods
GET only
GET and POST only
GET, POST, and OPTIONS only

Authorization level

▼
Function
Anonymous
Admin

Allowed authentication methods: GET only

Authorization level: Anonymous



The option is Allow Anonymous requests. This option turns on authentication and authorization in App Service, but defers authorization decisions to your application code. For authenticated requests, App Service also passes along authentication information in the HTTP headers.

This option provides more flexibility in handling anonymous requests.

References:

<https://docs.microsoft.com/en-us/azure/app-service/overview-authentication-authorization>

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