



AZ-700^{Q&As}

Designing and Implementing Microsoft Azure Networking Solutions

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QUESTION 1

You need to provide access to storage1. The solution must meet the PaaS networking requirements and the business requirements. What should you include in the solution?

- A. a private endpoint
- B. Azure Traffic Manager
- C. Azure Front Door
- D. a service endpoint

Correct Answer: A

service endpoint limitation Endpoints are enabled on subnets configured in Azure virtual networks. Endpoints can't be used for traffic from your premises to Azure services

QUESTION 2

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

Name	Type	Description
Vnet1	Virtual network	None
Subnet1	Virtual subnet	Hosted in Vnet1
GatewaySubnet	Virtual subnet	Hosted in Vnet1
VM1	Virtual machine	Connected to Subnet1 Basic SKU public IP address
VM2	Virtual machine	Connected to Subnet2 Standard SKU public IP address

You plan to deploy an Azure Virtual Network NAT gateway named Gateway1. The solution must meet the following requirements:

1.

VM1 will access the internet by using its public IP address.

2.

VM2 will access the internet by using its public IP address.

3.

Administrative effort must be minimized.

You need to ensure that you can deploy Gateway1 to Vnet1.



What is the minimum number of subnets required on Vnet1?

- A. 2
- B. 3
- C. 4
- D. 5

Correct Answer: C

1.

GatewaySubnet

2.

Subnet 2

3.

Subnet 1 with Basic SKU for Public IP

4.

NAT Gateway requires in VNET 1 and hence 4. Otherwise you could have used Subnet2 to avoid creating 4th Subnet. Requirement is to create NAT GW in VNET1 so you need 4th Subnet. <https://learn.microsoft.com/en-us/azure/virtual-network/nat-gateway/nat-overview> Check out - NAT gateway and basic SKU resources section

QUESTION 3

HOTSPOT

You have an Azure private DNS zone named contoso.com that is linked to the virtual networks shown in the following table.



Vnet1

Name

Subnet1

Subnet address range * ⓘ

10.100.1.0/24

10.100.1.0 – 10.100.1.255 (251 + 5 Azure reserved addresses)

☐ Add IPv6 address space ⓘ

NAT gateway ⓘ

NATgateway1



Network security group

None



Route table

RouteTable1

**SERVICE ENDPOINTS**

Create service endpoint policies to allow traffic to specific azure resources from your virtual network over service endpoints. [Learn more](#)

Services ⓘ

Microsoft.Storage

**Service****Status**

Microsoft.Storage

Succeeded



Service endpoint policies

0 selected

**SUBNET DELEGATION**

Delegate subnets to a service ⓘ

None



The links have auto registration enabled.

You create the virtual machines shown in the following table.



Answer Area

Statements	Yes	No
VM1 can communicate outbound by using NATgateway1	<input type="radio"/>	<input type="radio"/>
The virtual machines in Subnet2 communicate outbound by using NATgateway1	<input type="radio"/>	<input type="radio"/>
All the virtual machines that use NATgateway1 to connect to the internet use the same public IP address	<input type="radio"/>	<input type="radio"/>

You manually add the following entry to the contoso.com zone:

Name: VM1

IP address: 10.1.10.9

For each of the following statements, select Yes if the statement is true. Otherwise, select No.

NOTE: Each correct selection is worth one point.

Hot Area:

Answer Area

Statements	Yes	No
VM1 can communicate outbound by using NATgateway1	<input checked="" type="radio"/>	<input type="radio"/>
The virtual machines in Subnet2 communicate outbound by using NATgateway1	<input type="radio"/>	<input checked="" type="radio"/>
All the virtual machines that use NATgateway1 to connect to the internet use the same public IP address	<input type="radio"/>	<input checked="" type="radio"/>

Correct Answer:

Name	Connected to
VM1	Vnet1/Subnet1
VM2	Vnet1/Subnet2

Box 1: No

The manual DNS record will overwrite the auto-registered DNS record so VM1 will resolve to 10.1.10.9.

Box 2: No

The DNS record for VM1 is now a manually created record rather than an auto-registered record. Only auto-registered



DNS records are deleted when a VM is deleted.

Box 3: No

This answer depends on how the IP address is changed. To change the IP address of a VM manually, you would need to select 'Static' as the IP address assignment. In this case, the DNS record will not be updated because only DHCP

assigned IP addresses are auto-registered.

Reference:

<https://docs.microsoft.com/en-us/azure/dns/dns-faq-private>

QUESTION 4

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

Name	Type	Description
VNet1	Virtual network	Contains a subnet named Subnet1
Subnet1	Virtual subnet	Part of VNet1
NSG1	Network security group (NSG)	Linked to Subnet1
ASG1	Application security group	Not linked

Subnet1 contains three virtual machines that host an app named App1. App1 is accessed by using the SFTP protocol.

From NSG1, you configure an inbound security rule named Rule2 that allows inbound SFTP connections to ASG1.

You need to ensure that the inbound SFTP connections are managed by using ASG1. The solution must minimize administrative effort.

What should you do?

- A. From NSG1, modify the priority of Rule2.
- B. From each virtual machine, associate the network interface to ASG1.
- C. From Subnet1, create a subnet delegation.
- D. From ASG1, modify the role assignments.

Correct Answer: B

An application security group is a logical collection of virtual machines (NICs). You join virtual machines to the application security group, and then use the application security group as a source or destination in NSG rules.

The Networking blade of virtual machine properties has a new button called Configure The Application Security Groups for each NIC in the virtual machine. If you click this button, a pop-up blade will appear and you can select which (none, one, many) application security groups that this NIC should join, and then click Save to commit the change.

Reference: <https://medium.com/awesome-azure/azure-application-security-group-asg-1e5e2e5321c3>



QUESTION 5

HOTSPOT

You have an Azure virtual network named Vnet1 that contains two subnets named Subnet1 and Subnet2.

You have the NAT gateway shown in the NATgateway1 exhibit.



DNS

Fabrikam.com

DNS zone

+ Record set

+ Child zone

→ Move

🗑️ Delete zone

🔄 Refresh

^ Essentials

JSON View

Resource group (change) : rg1

Subscription (change) : Subscription1

Subscription ID : 169d1bba-ba4c-471c-b513-092eb7063265

Name server 1 : ns1-06.azure-dns.com.

Name server 2 : ns2-06.azure-dns.net.

Name server 3 : ns3-06.azure-dns.org.

Name server 4 : ns4-06.azure-dns.info.

Tags (change) : Click here to add tags

📘 You can search for record sets that have been loaded on this page. If you don't see what you're looking for, you can try scrolling to allow more record sets to load.

🔍 Search record sets

Name	Type	TTL	Value
@	NS	172800	ns1-06.azure-dns.com. ns2-06.azure-dns.net. ns3-06.azure-dns.org. ns4-06.azure-dns.info.
@	SOA	3600	Email: azuredns-hostmaster.microsoft.com Host: ns1-06.azure-dns.com. Refresh: 3600 Retry: 300 Expire: 2419200 Minimum TTL: 300 Serial number: 1
appservice1	A	3600	131.107.1.1
www	CNAME	3600	appservice1.fabrikam.com

You have the virtual machine shown in the VM1 exhibit.



Fabrikam.com

Private DNS zone

Record set

Move

Delete zone

Refresh

^ Essentials

JSON View

Resource group (change)

: rg1

Subscription (change)

: Subscription1

Subscription ID

: 169d1bba-ba4c-471c-b513-092eb7063265

Tags (change)

: [Click here to add tags](#)

You can search for record sets that have been loaded on this page. If you don't see what you're looking for, you can try scrolling to allow more record sets to load.

Search record sets

Name	Type	TTL	Value	Auto registered
@	SOA	3600	Email: azureprivatedns-host.microsoft.co... Host: azureprivatedns.net Refresh: 3600 Retry: 300 Expire: 2419200 Minimum TTL: 10 Serial number: 1	False

Subscription (change)

: Subscription1

Subscription ID

: 169d1bba-ba4c-471c-b513-092eb7063265

Tags (change)

: [Click here to add tags](#)

You can search for record sets that have been loaded on this page. If you don't see what you're looking for, you can try scrolling to allow more record sets to load.

Search record sets

Name	Type	TTL	Value	Auto registered
@	SOA	3600	Email: azureprivatedns-host.microsoft.co... Host: azureprivatedns.net Refresh: 3600 Retry: 300 Expire: 2419200 Minimum TTL: 10 Serial number: 1	False
appservice1	A	3600	131.107.100.10	False
server1	A	3600	131.107.100.1	False
server2	A	3600	131.107.100.2	False
server3	A	3600	131.107.100.3	False
www	CNAME	3600	appservice1.fabrikam.com	False



Subnet1 is configured as shown in the Subnet1 exhibit.

Fabrikam.com Virtual network links			
Private DNS zone			
+ Add Refresh			
Search virtual network links			
Link Name	Link status	Virtual network	Auto-Registration
vnet1_link	Completed	Vnet1	Disabled

For each of the following statements, select Yes if the statement is true. Otherwise, select No. NOTE: Each correct selection is worth one point.

Hot Area:

Answer Area

Statements	Yes	No
Queries for www.fabrikam.com from the internet are resolved to 131.107.1.1.	<input type="checkbox"/>	<input type="checkbox"/>
Queries for server1.fabrikam.com can be resolved from the internet.	<input type="checkbox"/>	<input type="checkbox"/>
Queries for www.fabrikam.com from Vnet2 are resolved to 131. 107.100. 10.	<input type="checkbox"/>	<input type="checkbox"/>

Correct Answer:

Answer Area

Statements	Yes	No
Queries for www.fabrikam.com from the internet are resolved to 131.107.1.1.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Queries for server1.fabrikam.com can be resolved from the internet.	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Queries for www.fabrikam.com from Vnet2 are resolved to 131. 107.100. 10.	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Box 1: No



VM1 is in Zone2 whereas the NAT Gateway is in Zone1. The VM would need to be in the same zone as the NAT Gateway to be able to use it. Therefore, VM1 cannot use the NAT gateway.

Box 2: Yes

NATgateway1 is configured in the settings for Subnet2.

Box 3: No

The NAT gateway does not have a single public IP address, it has an IP prefix which means more than one IP address. The VMs that use the NAT Gateway can use different public IP addresses contained within the IP prefix.

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