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Question #71

Topic 4

HOTSPOT -

You have an Azure subscription that contains the public load balancers shown in the following table.

Name	SKU
LB1	Basic
LB2	Standard

You plan to create six virtual machines and to load balance requests to the virtual machines. Each load balancer will load balance three virtual machines.

You need to create the virtual machines for the planned solution.

Hot Area:

Answer Area

The virtual machines that will be load balanced by using LB1 must:

be connected to the same virtual network

be created in the same resource group

be created in the same availability set or virtual machine scale set

run the same operating system

The virtual machines that will be load balanced by using LB2 must:

be connected to the same virtual network

be created in the same resource group

be created in the same availability set or virtual machine scale set

run the same operating system

Correct Answer:

Answer Area

The virtual machines that will be load balanced by using LB1 must:

be connected to the same virtual network

be created in the same resource group

be created in the same availability set or virtual machine scale set

run the same operating system

The virtual machines that will be load balanced by using LB2 must:

be connected to the same virtual network

be created in the same resource group

be created in the same availability set or virtual machine scale set

run the same operating system

Box 1: be created in the same availability set or virtual machine scale set.

The Basic tier is quite restrictive. A load balancer is restricted to a single availability set, virtual machine scale set, or a single machine.

Box 2: be connected to the same virtual network

The Standard tier can span any virtual machine in a single virtual network, including blends of scale sets, availability sets, and machines.

Reference:

<https://www.petri.com/comparing-basic-standard-azure-load-balancers>

HOTSPOT -

You have an on-premises data center and an Azure subscription. The data center contains two VPN devices. The subscription contains an Azure virtual network named VNet1. VNet1 contains a gateway subnet.

You need to create a site-to-site VPN. The solution must ensure that if a single instance of an Azure VPN gateway fails, or a single on-premises VPN device fails, the failure will not cause an interruption that is longer than two minutes.

What is the minimum number of public IP addresses, virtual network gateways, and local network gateways required in Azure? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Hot Area:

Answer Area

Public IP addresses:

▼

1

2

3

4

Virtual network gateways:

▼

1

2

3

4

Local network gateways:

▼

1

2

3

4

Answer Area

Public IP addresses:

▼

1

2

3

4

Virtual network gateways:

▼

1

2

3

4

Local network gateways:

▼

1

2

3

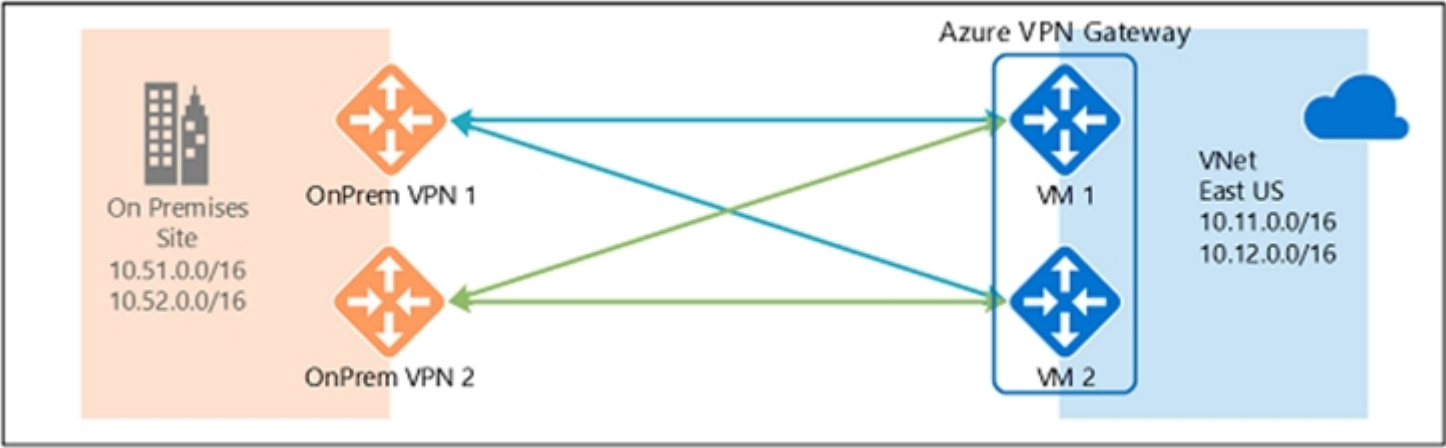
4

Correct Answer:

Box 1: 4 -

Two public IP addresses in the on-premises data center, and two public IP addresses in the VNET.

The most reliable option is to combine the active-active gateways on both your network and Azure, as shown in the diagram below.



Box 2: 2 -

Every Azure VPN gateway consists of two instances in an active-standby configuration. For any planned maintenance or unplanned disruption that happens to the active instance, the standby instance would take over (failover) automatically, and resume the S2S VPN or VNet-to-VNet connections.

Box 3: 2 -

Dual-redundancy: active-active VPN gateways for both Azure and on-premises networks

Reference:

<https://docs.microsoft.com/en-us/azure/vpn-gateway/vpn-gateway-highlyavailable>

Question #73

Topic 4

You have an Azure subscription that contains two virtual machines as shown in the following table.

Name	Operating system	Location	IP address	DNS server
VM1	Windows Server 2019	West Europe	10.0.0.4	Default (Azure-provided)
VM2	Windows Server 2019	West Europe	10.0.0.5	Default (Azure-provided)

You perform a reverse DNS lookup for 10.0.0.4 from VM2.
Which FQDN will be returned?

- A. vm1.core.windows.net
- B. vm1.azure.com
- C. vm1.westeurope.cloudapp.azure.com
- D. vm1.internal.cloudapp.net Most Voted

Correct Answer: B

Community vote distribution

D (100%)

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 is installed on two Azure virtual machines named VM1 and VM2. Connections to App1 are managed by using an Azure Load Balancer.

The effective network security configurations for VM2 are shown in the following exhibit.

Home > VM2 - Networking

VM2 - Networking

Virtual machine

Search (Ctrl+ /)

Attach network interfaceDetach network interface

Overview

Activity log

Access control (IAM)

Tags

Diagnose and solve problems

Settings

Networking

Disks

Size

Security

Extensions

Network Interface: VM2-NIC1

Effective security rules

Topology

Virtual network/subnet: Vnet1/Subnet11NIC Public IP: -NIC Private IP: 10.240.11.5Accelerated networking: Disabled

Inbound port rules

Outbound port rules

Application security groups

Load balancing

Network security group NSG2 (attached to network interface: Subnet11)

Add inbound port rule

Impacts 1 subnets, 0 network interfaces

Priority	Name	Port	Protocol	Source	Destination	Action
100	Allow_131.107.100.50	443	TCP	131.107.100.50	VirtualNetwork	Allow
200	BlockAllOther441	443	Any	Any	Any	Deny
65000	AllowVnetInBound	Any	Any	VirtualNetwork	VirtualNetwork	Allow
65001	AllowAzureLoadBalancerInBound	Any	Any	AzureLoadBalancer	Any	Allow
65500	DenyAllInBound	Any	Any	Any	Any	Deny

You discover that connections to App1 from 131.107.100.50 over TCP port 443 fail.

You verify that the Load Balancer rules are configured correctly.

You need to ensure that connections to App1 can be established successfully from 131.107.100.50 over TCP port 443.

Solution: You create an inbound security rule that allows any traffic from the AzureLoadBalancer source and has a cost of 150.

Does this meet the goal?

- A. Yes
- B. No

Most Voted

Correct Answer: A

Reference:

<https://docs.microsoft.com/en-us/azure/virtual-network/network-security-groups-overview>

Community vote distribution

B (58%)

A (42%)

Question #75

Topic 4

You have an Azure subscription that contains a policy-based virtual network gateway named GW1 and a virtual network named VNet1. You need to ensure that you can configure a point-to-site connection from an on-premises computer to VNet1. Which two actions should you perform? Each correct answer presents part of the solution.

NOTE: Each correct selection is worth one point.

A. Add a service endpoint to VNet1

B. Reset GW1

C. Create a route-based virtual network gateway

D. Add a connection to GW1

E. Delete GW1

F. Add a public IP address space to VNet1

Correct Answer: *CE*

C: A VPN gateway is used when creating a VPN connection to your on-premises network. Route-based VPN devices use any-to-any (wildcard) traffic selectors, and let routing/forwarding tables direct traffic to different IPsec tunnels. It is typically built on router platforms where each IPsec tunnel is modeled as a network interface or VTI (virtual tunnel interface).

E: Policy-based VPN devices use the combinations of prefixes from both networks to define how traffic is encrypted/decrypted through IPsec tunnels. It is typically built on firewall devices that perform packet filtering. IPsec tunnel encryption and decryption are added to the packet filtering and processing engine.

Incorrect Answers:

F: Point-to-Site connections do not require a VPN device or a public-facing IP address.

Reference:

<https://docs.microsoft.com/en-us/azure/vpn-gateway/create-routebased-vpn-gateway-portal> <https://docs.microsoft.com/en-us/azure/vpn-gateway/vpn-gateway-connect-multiple-policybased-rm-ps>

Community vote distribution

CE (100%)

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