AZ-720 Q&As

Troubleshooting Microsoft Azure Connectivity

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QUESTION 1

A company has an ExpressRoute gateway between their on-premises site and Azure. The ExpressRoute gateway is on a virtual network named VNet1. The company enables FastPath on the gateway. You associate a network security group

(NSG) with all of the subnets.

Users report issues connecting to VM1 from the on-premises environment. VM1 is on a virtual network named VNet2. Virtual network peering is enabled between VNet1 and VNet2.

You create a flow log named FlowLog1 and enable it on the NSG associated with the gateway subnet.

You discover that FlowLog1 is not reporting outbound flow traffic.

You need to resolve the issue with FlowLog1.

What should you do?

A. Enable FlowLog1 in a network security group associated with the subnet of VM1.

B. Configure the FlowTimeoutInMinutes property on VNet2 to a non-null value.

C. Configure the FlowTimeoutInMinutes property on VNet1 to a non-null value.

D. Configure FlowLog1 for version 2.

Correct Answer: A

According to 2, when FastPath is enabled on an ExpressRoute gateway, network traffic between your on-premises network and your virtual network bypasses the gateway and goes directly to virtual machines in the virtual network. Therefore, if you want to capture outbound flow traffic from VM1, you need to enable flow logging on an NSG associated with the subnet of VM1.

QUESTION 2

A company has an Azure tenant. The company deploys an Azure firewall named FW1 to control access from an on-premises datacenter to an Azure virtual machine named VM1.

The company troubleshoots ICMP connectivity from the on-premises datacenter to VM1. You are unable to ping VM1 from an on-premises server.

You need to determine if ICMP connectivity to VM1 is allow on FW1.

What should you do?

A. Use the ping command targeting the IP address of VM1 and review the Infrastructure rules log of FW1.

B. Use the ping command targeting the IP address of VM1 and review the command\\'s response.

C. Use the ping command targeting the IP address of VM1 and review the Network rules log of FW1.

D. Use the ping command targeting the fully qualified domain name of VM1 and review the command\\'s response.

Correct Answer: C

According to Microsoft, the ICMP protocol is not permitted through the Azure load balancer. To test connectivity, Microsoft recommends that you do a port ping. While Ping.exe uses ICMP, you can use other tools, such as PSPing, Nmap, and telnet, to test connectivity to a specific TCP port1.

QUESTION 3

A company deploys a new file sharing application on four Standard_D2_v3 virtual machines (VMs) behind an Azure Load Balancer. The company implements Azure Firewall.

Users report that the application is slow during peak usage periods. An engineer reports that the peak usage for each VM is approximately 1 Gbps.

You need to implement a solution that support a minimum of 10 Gbps.

What should you do to increase the throughput?

A. Request an increase in networking quotas.

B. Increase the size of the VM instance.

C. Disable the Azure Firewall and implement network security groups in its place.

D. Move two of the servers behind a separate load balancer and configure round robin routing in Traffic Manager.

Correct Answer: B

According to the given scenario, the application deployed on four Standard_D2_v3 virtual machines behind an Azure Load Balancer is experiencing slow performance during peak usage periods It is reported that the peak usage for each VM is approximately 1 Gbps, and the goal is to increase the throughput to a minimum of 10 Gbps. To achieve this goal, the best option is to increase the size of the VM instance. The Standard_D2_v3 virtual machine size has a maximum network bandwidth of 1 Gbps, so increasing the size of the VM instance to a higher tier, such as Standard_D8_v3 or higher, will provide more network bandwidth and improve the application\\\'s performance. Option A, requesting an increase in networking quotas, may not be sufficient to achieve the required network bandwidth.

Option C, disabling the Azure Firewall and implementing network security groups, may not have a significant impact on the network bandwidth. Option D, moving two of the servers behind a separate load balancer and configuring round-robin

routing in Traffic Manager, may improve availability and performance but will not increase the network bandwidth.

Source:

[1] https://docs.microsoft.com/en-us/azure/virtual-machines/windows/sizes-general

[2] https://docs.microsoft.com/en-us/azure/virtual-network/designing-hub-spoke-topologies#optimize-data-transfer-between-hub-and-spoke-vnets
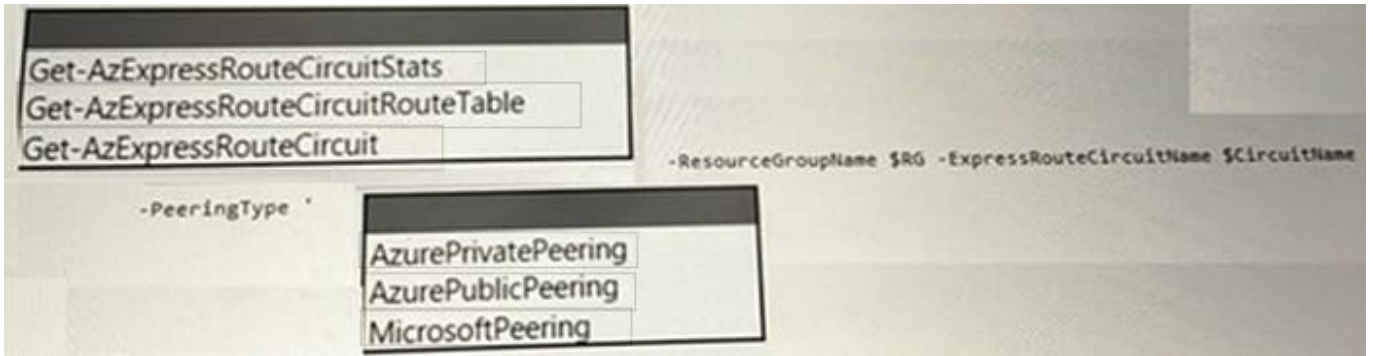
QUESTION 4

HOTSPOT

A company connects an on-premises network to an Azure virtual network by using ExpressRoute.

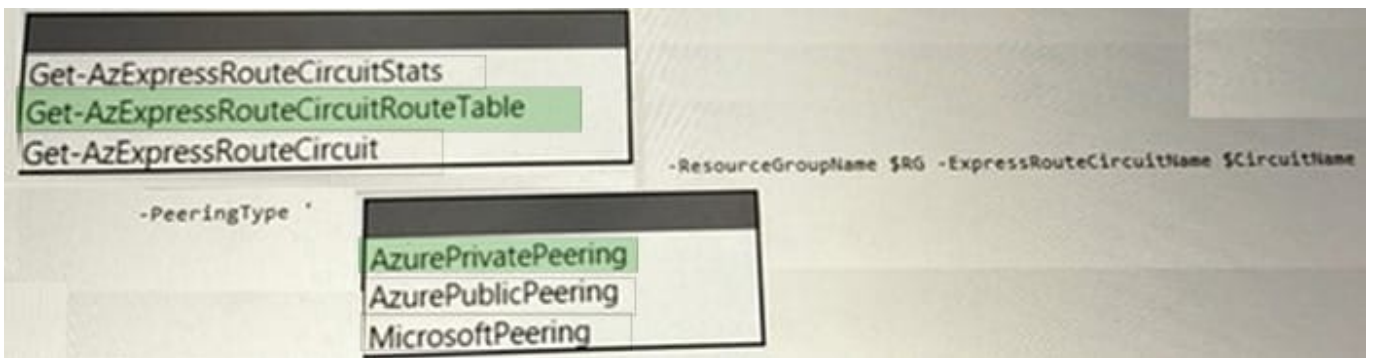The ExpressRoute connection is experiencing higher than normal latency.

You need to confirm the traffic flow.

How should you complete the PowerShell command?

Hot Area:

Correct Answer:

QUESTION 5

HOTSPOT

A company uses public Azure DNS zones.

The company reports DNS record creation and name resolution issues.

You need to troubleshoot the issues.

What are the causes of the issues?

Hot Area:

DNS issue	Cause
The company cannot create a DNS zone.	The company has reached the maximum number of DNS zones. A CNAME has a conflict with an existing record set. The company has not configured domain name delegation.
The company cannot create a DNS record	A CNAME has a conflict with an existing record set. The company has not configured domain name delegation. A duplicate zone name exists.

Correct Answer:

DNS issue	Cause
The company cannot create a DNS zone.	**The company has reached the maximum number of DNS zones.** A CNAME has a conflict with an existing record set. The company has not configured domain name delegation.
The company cannot create a DNS record	**A CNAME has a conflict with an existing record set.** The company has not configured domain name delegation. A duplicate zone name exists.

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