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Examen

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Exam : **AZ-700**

Title : Designing and Implementing Microsoft Azure Networking Solutions

Version : DEMO

1. Topic 1, Litware. Inc Case Study 1

Overview

Litware. Inc. is a financial company that has a main datacenter in Boston and 20 branch offices across the United States. Users have Android, iOS, and Windows 10 devices.

Existing Environment:

Hybrid Environment

The on-prernises network contains an Active Directory forest named litwareinc.com that syncs to an Azure Active Directory (Azure AD) tenant named litwareinc.com by usinq Azure AD Connect.
All the offices connect to a virtual network named Vnetl by using a Site-to-Site VPN connection.

Azure Environment

Litware has an Azure subscription named Sub1 that is linked to the litwareinc.com Azure AD tenant.
Sub1 contains resources in the East US Azure region as shown in the following table.

Name	Type	Description
Vnet1	Virtual network	Uses an IP address space of 192.168.0.0/20
GatewaySubnet	Virtual network subnet	Located in Vnet1 and uses an IP address space of 192.168.15.128/29
VPNGW1	VPN gateway	Deployed to Vnet1
Vnet2	Virtual network	Uses an IP address space of 192.168.16.0/20
SubnetA	Virtual network subnet	Located in Vnet2 and uses an IP address space of 192.168.16.0/24
Vnet3	Virtual network	Uses an IP address space of 192.168.32.0/20
cloud.litwareinc.com	Private DNS zone	**None**
VMScaleSet1	Virtual machine scale set	Contains four virtual machines deployed to SubnetA
VMScaleSet2	Virtual machine scale set	Contains two virtual machines deployed to SubnetA
storage1	Storage account	Has the public endpoint blocked
storage2	Storage account	Has the public endpoint blocked

There is bidirectional peering between Vnet1 and Vnet2. There is bidirectional peering between Vnet1 and Vnet3. Currently, Vnet2 and Vnet3 cannot communicate directly.

Requirements:

Business Requirements

Litware wants to minimize costs whenever possible, as long as all other requirements are met.

Virtual Networking Requirements

Litware identifies the following virtual networking requirements:
* Direct the default route of 0.0.0.0/0 on Vnet2 and Vnet3 to the Boston datacenter over an ExpressRoute circuit.

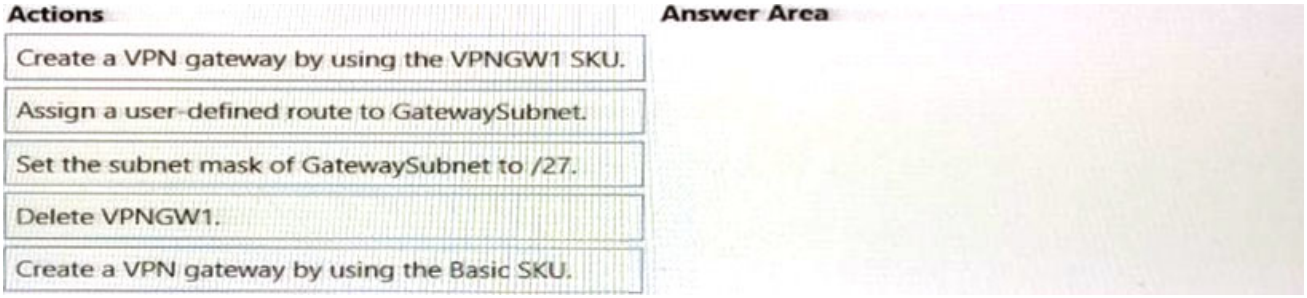
* Ensure that the records in the cloud.litwareinc.com zone can be resolved from the on-premises locations.
* Automatically register the DNS names of Azure virtual machines to the cloud.litwareinc.com zone.
* Minimize the size of the subnets allocated to platform-managed services.
* Allow traffic from VMScaleSet1 to VMScaleSet2 on the TCP port 443 only.

Hybrid Networking Requirements
Litware identifies the following hybrid networking requirements:
* Users must be able to connect to Vnet1 by using a Point-to-Site (P2S) VPN when working remotely. Connections must be authenticated by Azure AD.
* Latency of the traffic between the Boston datacenter and all the virtual networks must be minimized.
* The Boston datacenter must connect to the Azure virtual networks by using an ExpressRoute FastPath connection.
* Traffic between Vnet2 and Vnet3 must be routed through Vnet1.

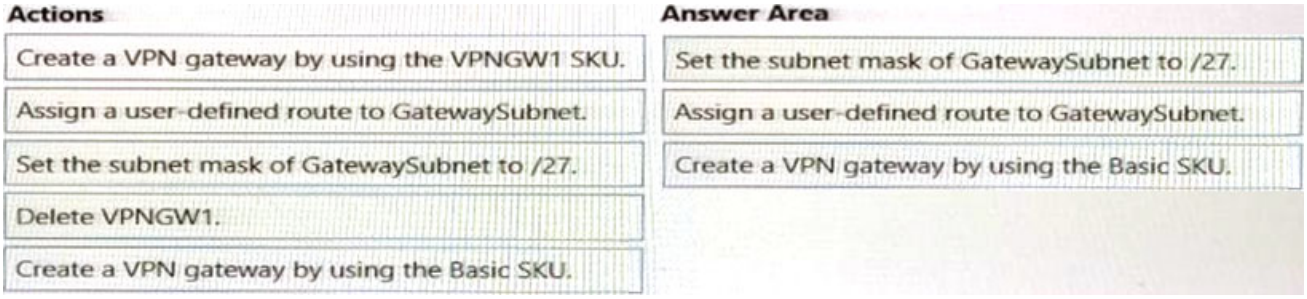
PaaS Networking Requirements
Litware identifies the following networking requirements for platform as a service (PaaS):
* The storage1 account must be accessible from all on-premises locations without exposing the public endpoint of storage1.
* The storage2 account must be accessible from Vnet2 and Vnet3 without exposing the public endpoint of storage2.

You need to connect Vnet2 and Vnet3. The solution must meet the virtual networking requirements and the business requirements.
Which two actions should you include in the solution? Each correct answer presents part of the solution.
NOTE: Each correct selection is worth one point.
A. On the peerings from Vnet2 and Vnet3, select Use remote gateways.
B. On the peering from Vnet1, select Allow forwarded traffic.
C. On the peering from Vnet1, select Use remote gateways.
D. On the peering from Vnet1, select Allow gateway transit.
E. On the peerings from Vnet2 and Vnet3, select Allow gateway transit.
Answer: B,D

2.DRAG DROP
You need to prepare Vnet1 for the deployment of an ExpressRoute gateway. The solution must meet the hybrid connectivity requirements and the business requirements.
Which three actions should you perform in sequence for Vnet1? To answer, move the appropriate actions from the list of actions to the answer area and arrange them in the
correct order.



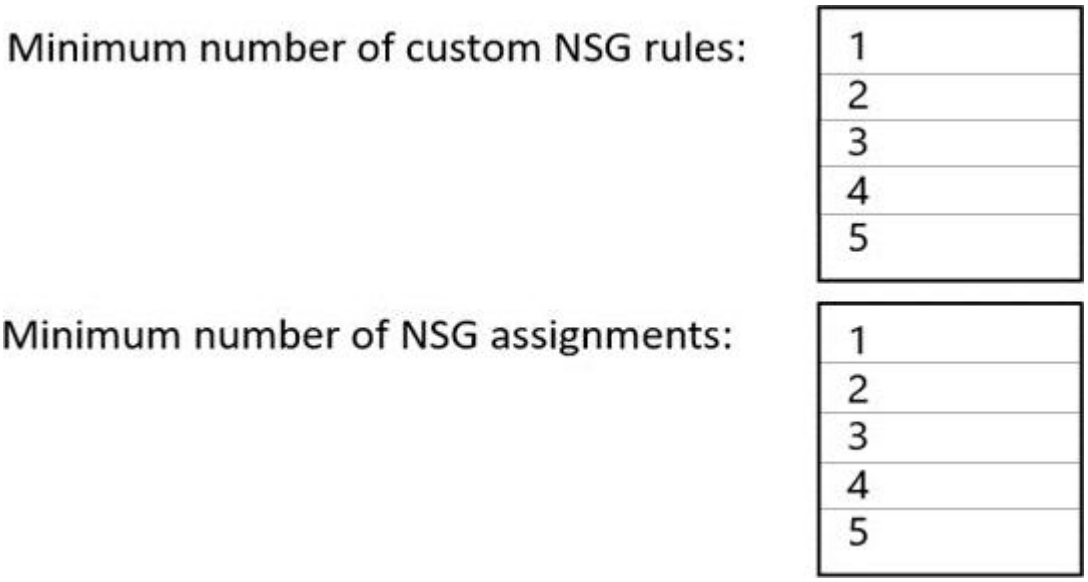
Answer:



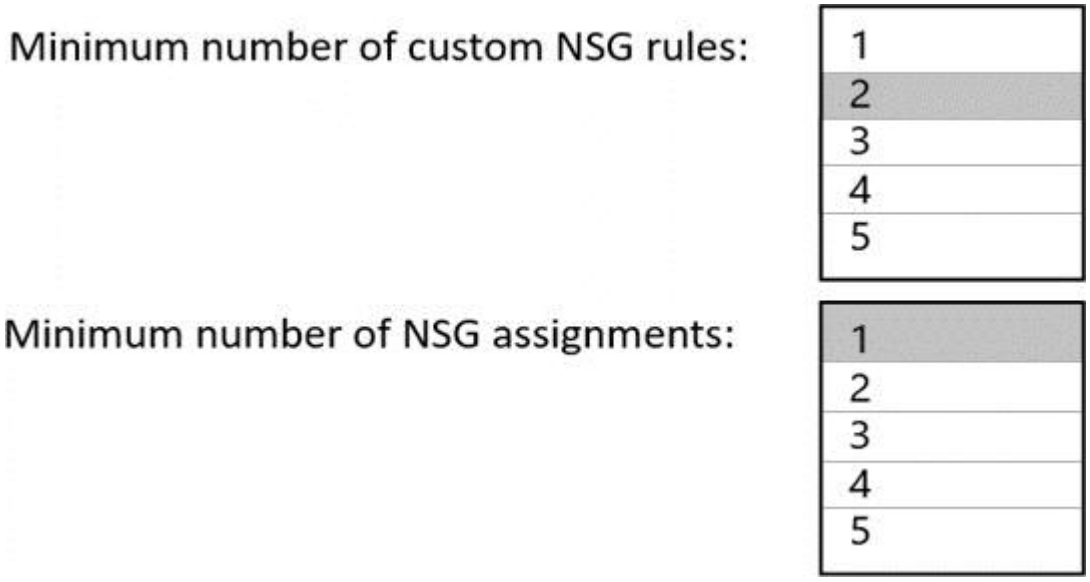
3.HOTSPOT

You need to restrict traffic from VMScaleSet1 to VMScaleSet2. The solution must meet the virtual networking requirements.

What is the minimum number of custom NSG rules and NSG assignments required? To answer, select the appropriate options in the answer area. NOTE: Each correct selection is worth one point.



Answer:



Explanation:

Graphical user interface, text, application

Description automatically generated

Box 2: One NSG

The minimum requirement is one NSG. You could attach the NSG to VMScaleSet1 and restrict outbound traffic, or you could attach the NSG to VMScaleSet2 and restrict inbound traffic. Either way you would need two custom NSG rules.

Box 1: Two custom rules

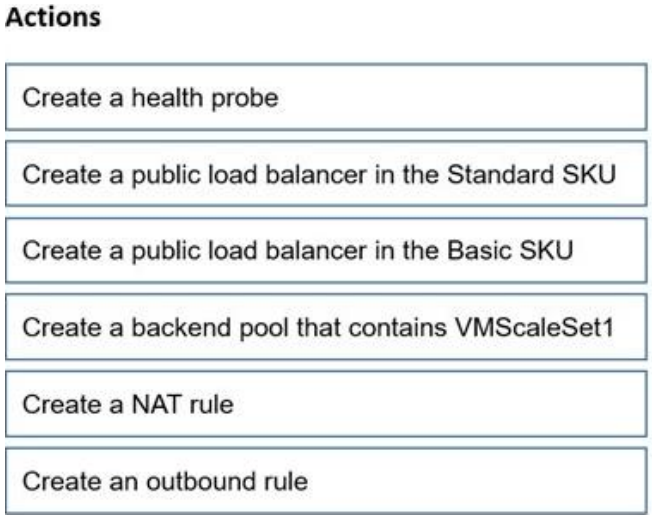
With the NSG attached to VMScaleSet2, you would need to create a custom rule blocking all traffic from VMScaleSet1. Then you would need to create another custom rule with a higher priority than the first rule that allows traffic on port 443.

The default rules in the NSG will allow all other traffic to VMScaleSet2.

4.DRAG DROP

You need to implement outbound connectivity for VMScaleSet1. The solution must meet the virtual networking requirements and the business requirements.

Which three actions should you perform in sequence? To answer, move the appropriate actions from the list of actions to the answer area and arrange them in the correct order.



Answer:

Actions	Answer Area
Create a health probe	Create a public load balancer in the Standard SKU
Create a public load balancer in the Standard SKU	Create a backend pool that contains VMScaleSet1
Create a public load balancer in the Basic SKU	Create an outbound rule
Create a backend pool that contains VMScaleSet1	
Create a NAT rule	
Create an outbound rule	

Explanation:

Graphical user interface, text, application

Description automatically generated

5.HOTSPOT

You need to recommend a configuration for the ExpressRoute connection from the Boston datacenter. The solution must meet the hybrid networking requirements and business requirements.

What should you recommend? To answer, select the appropriate options in the answer area. NOTE: Each correct selection is worth one point.

Set the ExpressRoute gateway type to:
- High Performance (ERGw2AZ)
- Standard Performance (ERGw1AZ)
- Ultra Performance (ERGw3AZ)

To minimize latency of traffic to Vnet2:
- Create a dedicated ExpressRoute circuit for Vnet2
- Connect Vnet2 directly to the ExpressRoute circuit
- Configure gateway transit for the peering between Vnet1 and Vnet2

Answer:

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- High Performance (ERGw2AZ)
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- Configure gateway transit for the peering between Vnet1 and Vnet2

Explanation:

Graphical user interface, text, application

Description automatically generated
For the first question, only ExpressRoute GW SKU Ultra Performance support FastPath feature.
For the second question, vnet1 will connect to ExpressRoute gw, once Vnet1 peers with Vnet2, the traffic from on-premise network will bypass GW and Vnet1, directly goes to Vnet2, while this feature is under public preview.
====Reference
ExpressRoute virtual network gateway is designed to exchange network routes and route network traffic. FastPath is designed to improve the data path performance between your on-premises network and your virtual network. When enabled, FastPath sends network traffic directly to virtual machines in the virtual network, bypassing the gateway.
To configure FastPath, the virtual network gateway must be either:
Ultra Performance
ErGw3AZ
VNet Peering - FastPath will send traffic directly to any VM deployed in a virtual network peered to the one connected to ExpressRoute, bypassing the ExpressRoute virtual network gateway.
https://docs.microsoft.com/en-us/azure/expressroute/about-fastpathGateway SKU
https://docs.microsoft.com/en-us/azure/expressroute/expressroute-about-virtual-network-gateways