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Designing and Implementing Microsoft Azure Networking Solutions

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Topic 1, Litware. Inc

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.

Question: 1

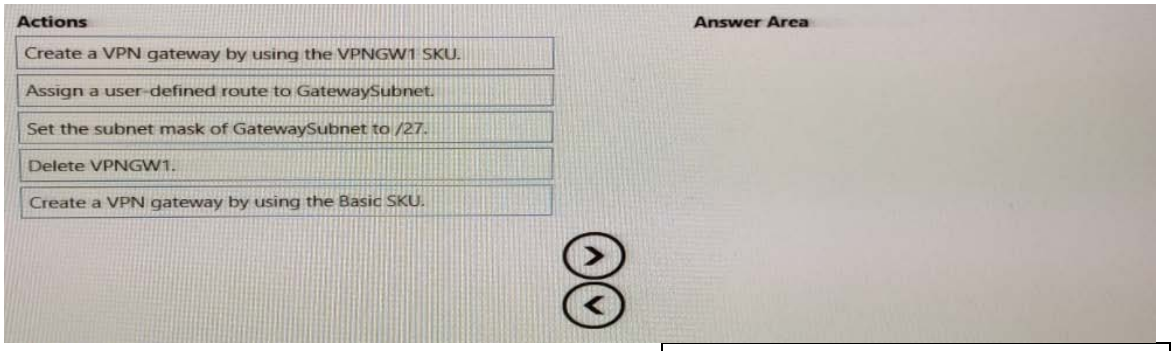
You need to connect Vnet2 and Vnet3. The solution must meet the virtual networking requirements and the business requirements.
Which two actions should you include in the solution? Each correct answer presents part of the solution.
NOTE: Each correct selection is worth one point.

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

Question: 2

ORDERLIST
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.

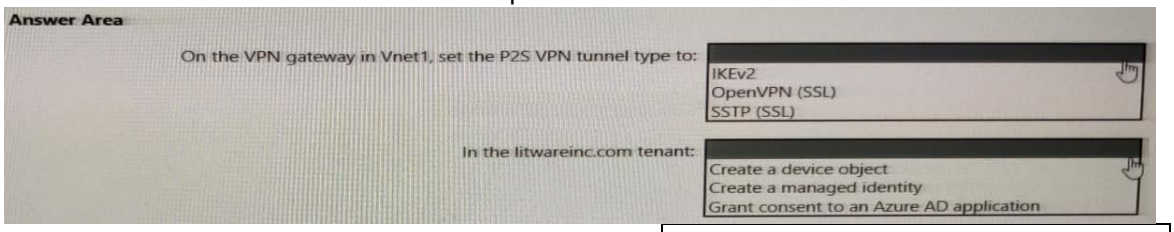


Answer:

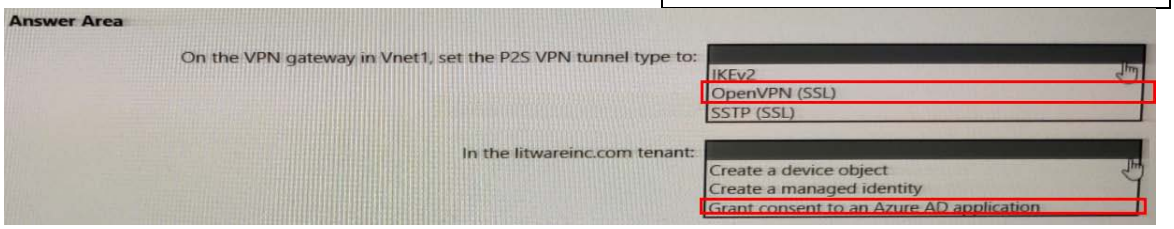
Set the subnet mask of GatewaySubnet to /27.
Assign a user-defined route to GatewaySubnet.
Create a VPN gateway by using the Basic SKU.
Explanation:

Question: 3

HOTSPOT
You need to implement a P2S VPN for the users in the branch office. The solution must meet the hybrid networking requirements.
What should you do? To answer, select the appropriate options in the answer area.
NOTE: Each correct selection is worth one point.



Answer:



Question: 4

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

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

Answer: A

Explanation:
https://docs.microsoft.com/en-us/azure/virtual-network/virtual-network-service-endpoints-overview

Question: 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:

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
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