



# AZ-300<sup>Q&As</sup>

Microsoft Azure Architect Technologies

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**QUESTION 1**

You have an Azure subscription named Subscription1. Subscription1 contains the virtual networks in the following table:

Name	Address space	Subnet name	Subnet address range
VNet1	10.1.0.0/16	Subnet1	10.1.1.0/24
VNet2	10.10.0.0/16	Subnet2	10.10.1.0/24
VNet3	172.16.0.0/16	Subnet3	172.16.1.0/24

Subscription1 contains the virtual machines in the following table:

Name	Network	Subnet	IP address
VM1	VNet1	Subnet1	10.1.1.4
VM2	VNet2	Subnet2	10.10.1.4
VM3	VNet3	Subnet3	172.16.1.4

Virtual network	Peering network
VNet1	VNet3
VNet2	VNet3
VNet3	VNet1

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:

**Statements**

**Yes No**

- VM1 can ping VM3.
- VM2 can ping VM3.
- VM2 can ping VM1.

<input type="radio"/>	<input type="radio"/>
<input type="radio"/>	<input type="radio"/>
<input type="radio"/>	<input type="radio"/>



Correct Answer:

Statements	Yes	No
VM1 can ping VM3.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
VM2 can ping VM3.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
VM2 can ping VM1.	<input type="checkbox"/>	<input checked="" type="checkbox"/>

<https://docs.microsoft.com/en-us/azure/virtual-network/tutorial-connect-virtual-networksportal>

### QUESTION 2

You have an on-premises network that you plan to connect to Azure by using a site-to-site VPN.

In Azure, you have an Azure virtual network named VNet1 that uses an address space of 10.0.0.0/16. VNet1 contains a subnet named Subnet1 that uses an address space of 10.0.0.0/24.

You need to create a site-to-site VPN to Azure.

Which four 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.

NOTE: More than one order of answer choices is correct. You will receive credit for any of the correct orders you select.

Select and Place:



Actions

Create a gateway subnet.

Create a custom DNS server.

Create a local gateway.

Create an Azure Content Delivery Network (CDN) profile.

Create a VPN gateway.

Create a VPN connection.

Answer Area

Correct Answer:

Actions

Create a custom DNS server.

Create an Azure Content Delivery Network (CDN) profile.

Answer Area

Create a gateway subnet.

Create a VPN gateway.

Create a local gateway.

Create a VPN connection.



### QUESTION 3

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 VNet1 to an on-premises computer.

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. Add a public IP address space to VNet1.
- C. Create a route-based virtual network gateway.
- D. Reset GW1.
- E. Delete GW1.
- F. Add a connection to GW1.

Correct Answer: CE

### QUESTION 4

You need to meet the connection requirements for the New York office.

What should you do? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Hot Area:

#### Answer Area

From the Azure portal:

Create an ExpressRoute circuit only.
Create a virtual network gateway only.
Create a virtual network gateway and a local network gateway.
Create an ExpressRoute circuit and an on-premises data gateway.
Create a virtual network gateway and an on-premises data gateway.

In the New York office:

Deploy ExpressRoute.
Deploy a DirectAccess server.
Implement a Web Application Proxy.
Configure a site-to-site VPN connection.





Correct Answer:

### Answer Area

From the Azure portal:

- |   |
|---|
| Create an ExpressRoute circuit only.                              |
| Create a virtual network gateway only.                            |
| Create a virtual network gateway and a local network gateway.     |
| Create an ExpressRoute circuit and an on-premises data gateway.   |
| Create a virtual network gateway and an on-premises data gateway. |

In the New York office:

- |  |
|--|
| Deploy ExpressRoute.                     |
| Deploy a DirectAccess server.            |
| Implement a Web Application Proxy.       |
| Configure a site-to-site VPN connection. |

Box 1: Create a virtual network gateway and a local network gateway.

Azure VPN gateway. The VPN gateway service enables you to connect the VNet to the on-premises network through a VPN appliance. For more information, see [Connect an on-premises network to a Microsoft Azure virtual network](#). The

VPN gateway includes the following elements:

**Virtual network gateway.** A resource that provides a virtual VPN appliance for the VNet. It is responsible for routing traffic from the on-premises network to the VNet.

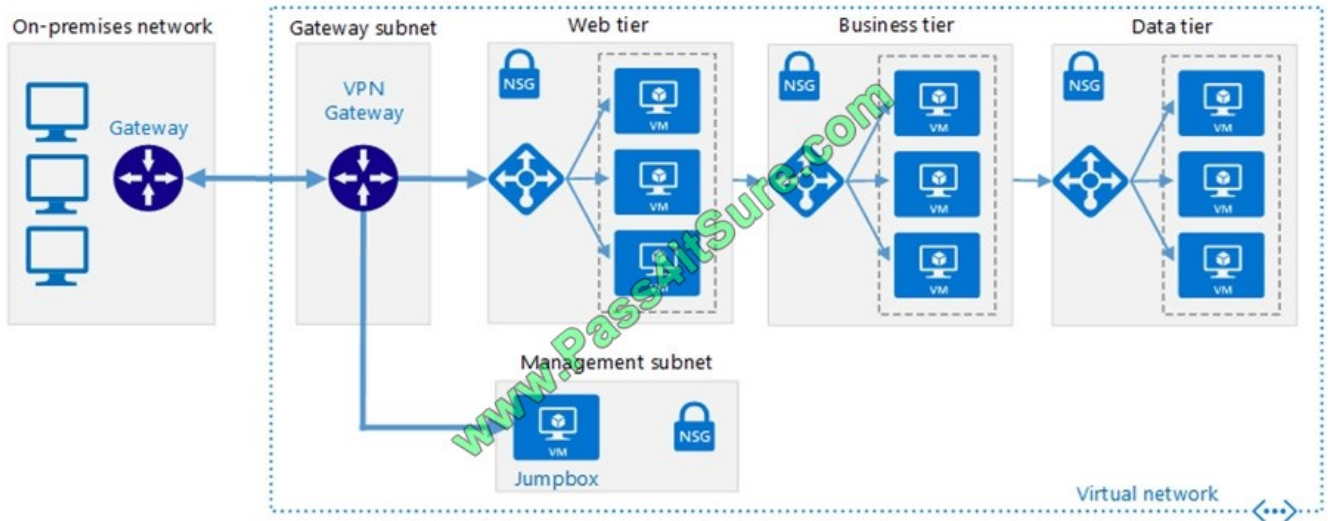
**Local network gateway.** An abstraction of the on-premises VPN appliance. Network traffic from the cloud application to the on-premises network is routed through this gateway.

**Connection.** The connection has properties that specify the connection type (IPSec) and the key shared with the on-premises VPN appliance to encrypt traffic.

**Gateway subnet.** The virtual network gateway is held in its own subnet, which is subject to various requirements, described in the [Recommendations](#) section below.

Box 2: Configure a site-to-site VPN connection

On premises create a site-to-site connection for the virtual network gateway and the local network gateway.



Scenario: Connect the New York office to VNet1 over the Internet by using an encrypted connection.

Incorrect Answers:

Azure ExpressRoute: Established between your network and Azure, through an ExpressRoute partner. This connection is private. Traffic does not go over the internet.

References:

<https://docs.microsoft.com/en-us/azure/architecture/reference-architectures/hybrid-networking/vpn>

### QUESTION 5

You plan to deploy five virtual machines to a virtual network subnet.

Each virtual machine will have a public IP address and a private IP address.

Each virtual machine requires the same inbound and outbound security rules.

What is the minimum number of network interfaces and network security groups that you require? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Hot Area:



Minimum number of network interfaces:

	▼
5	
10	
15	
20	

Minimum number of network security groups:

	▼
1	
2	
5	
10	

Correct Answer:

Minimum number of network interfaces:

	▼
5	
10	
15	
20	

Minimum number of network security groups:

	▼
1	
2	
5	
10	





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