



300-440^{Q&As}

Designing and Implementing Cloud Connectivity (ENCC)

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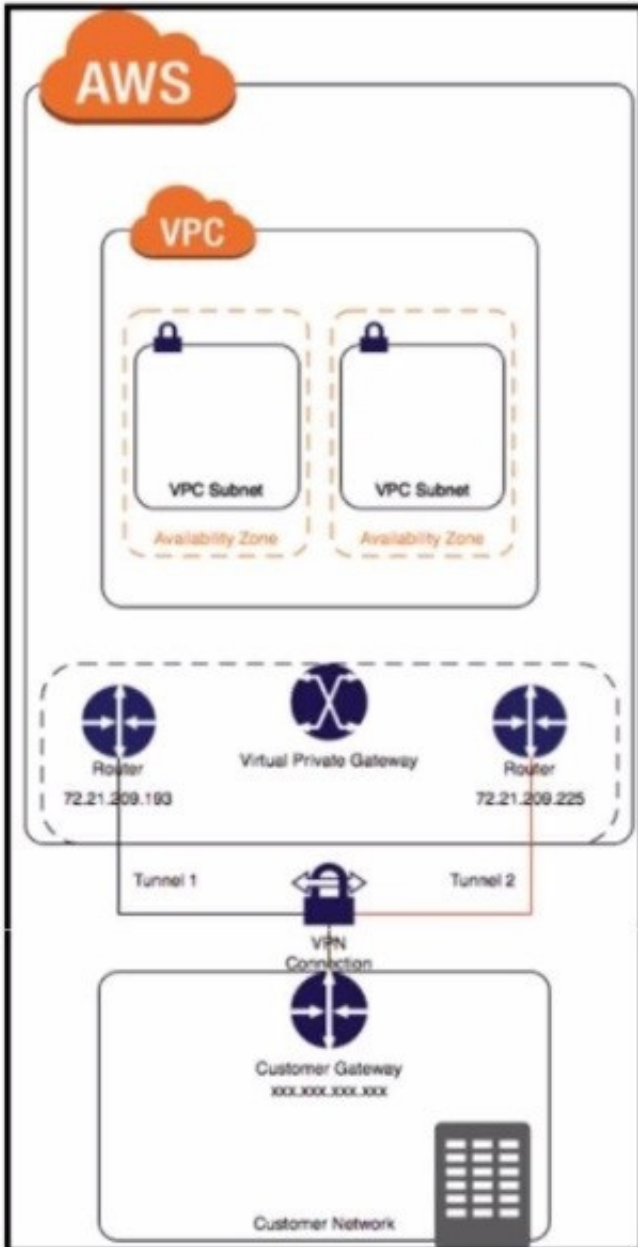




QUESTION 1

DRAG DROP

Refer to the exhibit.



Drag and drop the steps from the left onto the order on the right to configure a site-to-site VPN connection between an on-premises Cisco IOS XE router and Amazon Web Services (AWS).

Select and Place:



Configure the IOS XE router with the required IPsec VPN parameters and routing settings.	Step 1
Create a site-to-site VPN connection in AWS.	Step 2
Create a Customer Gateway (CGW) in AWS.	Step 3
Verify and test the VPN connection.	Step 4
Create a Virtual Private Gateway (VGW) in AWS.	Step 5

Correct Answer:

	Create a Customer Gateway (CGW) in AWS.
	Create a Virtual Private Gateway (VGW) in AWS.
	Create a site-to-site VPN connection in AWS.
	Configure the IOS XE router with the required IPsec VPN parameters and routing settings.
	Verify and test the VPN connection.

Step 1 = Create a Customer Gateway (CGW) in AWS.

Step 2 = Create a Virtual Private Gateway (VGW) in AWS.

Step 3 = Create a site-to-site VPN connection in AWS.

Step 4 = Configure the IOS XE router with the required IPsec VPN parameters and routing settings.

Step 5 = Verify and test the VPN connection.

The process of configuring a site-to-site VPN connection between an on-premises Cisco IOS XE router and Amazon Web Services (AWS) involves several steps

Create a Customer Gateway (CGW) in AWS: This is the first step where you define the public IP address of your on-premises Cisco IOS XE router in AWS. Create a Virtual Private Gateway (VGW) in AWS: This involves creating a VGW and

attaching it to the VPC in AWS.



Create a site-to-site VPN connection in AWS: After setting up the CGW and VGW, you then create a site-to-site VPN connection in AWS. This involves specifying the CGW, VGW, and the static IP prefixes for your on-premises network.

Configure the IOS XE router with the required IPsec VPN parameters and routing settings: After the AWS side is set up, you configure the on-premises Cisco IOS XE router with the required IPsec VPN parameters and routing settings. Verify

and test the VPN connection: Finally, you verify and test the VPN connection to ensure that it is working correctly.

References:

[Configure IOS-XE Site-to-Site VPN Connection to Amazon Web Services - Cisco Community](#)

[SD-WAN Configuration Example: Site-to-site \(LAN to LAN\) IPsec between vEdge and Cisco IOS - Cisco Community](#)

QUESTION 2

DRAG DROP

Drag and drop the commands from the left onto the purposes on the right to identify issues on a Cisco IOS XE SD-WAN device.

Select and Place:



```
show sdwan policy app-route-policy-filter
```

```
show sdwan security-info
```

```
show sdwan system status
```

```
show policy-firewall config
```

Display the time and process information of the device, as well as CPU, memory, and disk usage data.

Validate the configured zone-based firewall.

Display information about application-aware routing policy matched packet counts on the Cisco IOS XE SD-WAN devices.

View the security information that is configured for IPsec tunnel connections.

Correct Answer:



show sdwan system status

show policy-firewall config

show sdwan policy app-route-policy-filter

show sdwan security-info

Display the time and process information of the device, as well as CPU, memory, and disk usage data. = show sdwan system status Validate the configured zone-based firewall. = show policy-firewall config1 Display information about application-aware routing policy matched packet counts on the Cisco IOS XE SD-WAN devices. = show sdwan policy app-route-policy- filter View the security information that is configured for IPsec tunnel connections. = show sdwan security-info The commands used to identify issues on a Cisco IOS XE SD-WAN device are as follows show sdwan



system status: This command is used to display the time and process information of the device, as well as CPU, memory, and disk usage data. show policy-firewall config: This command is used to validate the configured zone-based firewall. show sdwan policy app-route-policy-filter: This command is used to display information about application-aware routing policy matched packet counts on the Cisco IOS XE SD-WAN devices. show sdwan security-info: This command is used to view the security information that is configured for IPsec tunnel connections

References: Cisco IOS XE Catalyst SD-WAN Qualified Command Reference Cisco Catalyst SD-WAN Command Reference Cisco Catalyst SD-WAN Systems and Interfaces Configuration Guide, Cisco IOS XE SD-WAN Tunnel Interface Commands - Cisco

QUESTION 3

Which Microsoft Azure service enables a dedicated and secure connection between an on- premises infrastructure and Azure data centers through a colocation provider?

- A. Azure Private Link
- B. Azure ExpressRoute
- C. Azure Virtual Network
- D. Azure Site-to-Site VPN

Correct Answer: B

Azure ExpressRoute is a service that enables a dedicated and secure connection between an on-premises infrastructure and Azure data centers through a colocation provider. A colocation provider is a third-party data center that offers network connectivity services to multiple customers. Azure ExpressRoute allows customers to bypass the public internet and connect directly to Azure services, such as virtual machines, storage, databases, and more. This provides benefits such as lower latency, higher bandwidth, more reliability, and enhanced security. Azure ExpressRoute also supports hybrid scenarios, such as connecting to Office 365, Dynamics 365, and other SaaS applications hosted on Azure. Azure ExpressRoute requires a physical connection between the customer's network and the colocation provider's network, as well as a logical connection between the customer's network and the Azure virtual network. The logical connection is established using a Border Gateway Protocol (BGP) session, which exchanges routing information between the two networks. Azure ExpressRoute supports two models: standard and premium. The standard model offers connectivity to all Azure regions within the same geopolitical region, while the premium model offers connectivity to all Azure regions globally, as well as additional features such as increased route limits, global reach, and Microsoft peering.

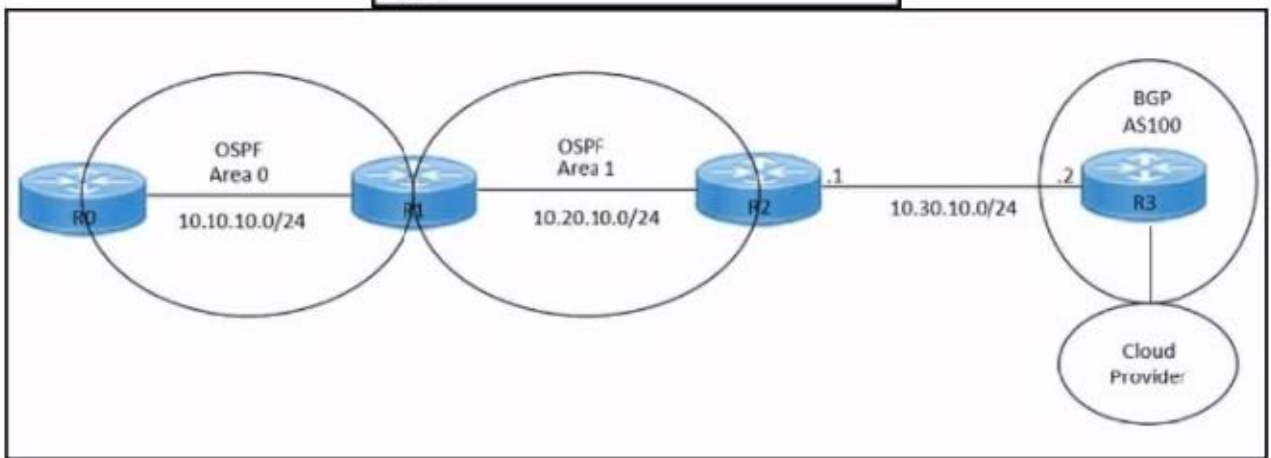
References: Designing and Implementing Cloud Connectivity (ENCC) v1.0, Learning Plan: Designing and Implementing Cloud Connectivity v1.0 (ENCC 300-440) Exam Prep, ENCC | Designing and Implementing Cloud Connectivity | Netec

QUESTION 4

Refer to the exhibit.



```
hostname R2
!
interface GigabitEthernet0/0
 ip address 10.30.10.1 255.255.255.0
 duplex auto
 speed auto
!
interface GigabitEthernet0/1
 ip address 10.20.10.1 255.255.255.0
 duplex auto
 speed auto
!
router ospf 1
 network 10.20.10.0 0.0.0.255 area 1
!
neighbor 10.30.10.2 remote-as 100
!
end
```



An engineer must redistribute IBGP routes into OSPF to connect an on-premises network to a cloud provider. Which command must be configured on router R2?

- A. redistribute ospf 1
- B. redistribute bgp 100 ospf 1
- C. redistribute bgp 100 subnets
- D. bgp redistribute-internal

Correct Answer: B

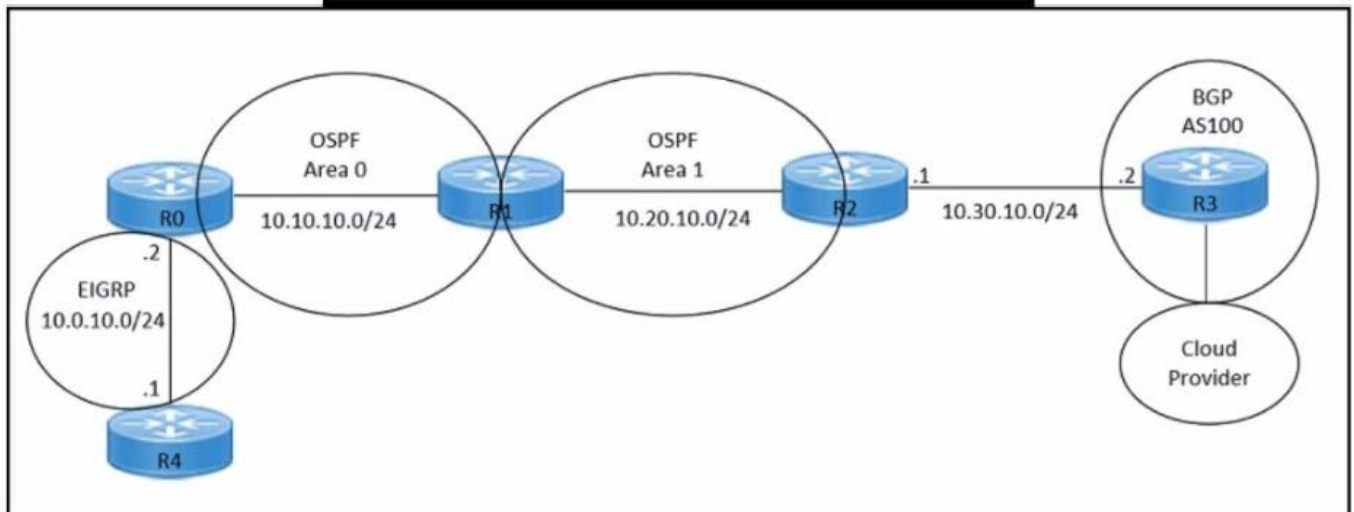
References: Learning Plan: Designing and Implementing Cloud Connectivity v1.0 (ENCC 300-440) Exam Prep
Designing and Implementing Cloud Connectivity (ENCC) v1.0 Cisco Multiprotocol Label Switching Exploring Cisco
Cloud OnRamp for Colocation ENCC: Configuring IPsec VPN from Cisco IOS XE to AWS : [Deploying Cisco IOS VTI-
Based Point-to-Point IPsec VPNs]

QUESTION 5

Refer to the exhibits.



```
hostname R2
!
interface GigabitEthernet0/0
 ip address 10.30.10.1 255.255.255.0
 duplex auto
 speed auto
!
interface GigabitEthernet0/1
 ip address 10.20.10.1 255.255.255.0
 duplex auto
 speed auto
!
router ospf 1
 network 10.20.10.0 0.0.0.255 area 1
!
router bgp 100
 neighbor 10.30.10.2 remote-as 100
 redistribute ospf 1
!
```



An engineer must redistribute only the 10.0.10.0/24 network into BGP to connect an on-premises network to a public cloud provider. These routes are currently redistributed:

***10.10.10.0/24**

***10.20.10.0/24**

Which command is missing on router R2?

- A. neighbor 10.0.10.2 remote-as 100
- B. redistribute ospf 1 match internal
- C. redistribute ospf 1 match external
- D. neighbor 10.0.10.0/24 remote-as 100



Correct Answer: C

The command redistribute ospf 1 match external is missing on router R2. This command is needed to redistribute only the external OSPF routes into BGP. The external OSPF routes are those that are learned from another routing protocol or

redistributed into OSPF. In this case, the 10.0.10.0/24 network is an external OSPF route, as it is redistributed from EIGRP into OSPF on router R1. The other commands are either already present or not relevant for this scenario.

References:

Designing and Implementing Cloud Connectivity (ENCC) v1.0, Module 3:

Implementing Cloud Connectivity, Lesson 3.1: Implementing IPsec VPN from Cisco IOS XE to AWS, Topic 3.1.2: Configure BGP on the Cisco IOS XE Router Security for VPNs with IPsec Configuration Guide, Cisco IOS XE, Chapter:

Configuring IPsec VPNs with Dynamic Routing Protocols, Section: Configuring BGP over IPsec VPNs

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