300-440 Q&As

Designing and Implementing Cloud Connectivity (ENCC)

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QUESTION 1

A company with multiple branch offices wants a connectivity model to meet its network architecture requirements. The company focuses on ensuring low latency and efficient routing for its critical business applications. Which connectivity model meets these requirements?

A. hub-and-spoke topology with SD-WAN technology, using dynamic routing and OSPF as the routing protocol

B. fully meshed topology with SD-WAN technology, using dynamic routing and BGP as the routing protocol

C. point-to-point topology using dedicated leased lines and static routing

D. star topology with internet-based VPN connections and static routing

Correct Answer: B

A fully meshed topology with SD-WAN technology, using dynamic routing and BGP as the routing protocol, meets the requirements of the company because it provides the following benefits

It allows direct and secure connectivity between any two branch offices, without the need for a central hub or intermediary devices. This reduces the latency and improves the performance of the critical business applications. It leverages SDWAN technology to optimize the traffic flow and application quality of service (QoS) across the WAN. SD-WAN can dynamically select the best path for each application based on the network conditions and policies. SD- WAN can also provide redundancy, security, and visibility for the WAN. It uses dynamic routing and BGP as the routing protocol to exchange routing information and establish connectivity between the branch offices. BGP is a scalable and flexible protocol that can support multiple address families, such as IPv4 and IPv6, and multiple routing policies, such as local preference and route filtering. BGP can also enable seamless integration with the cloud service providers (CSPs) and internet service providers (ISPs).

References :

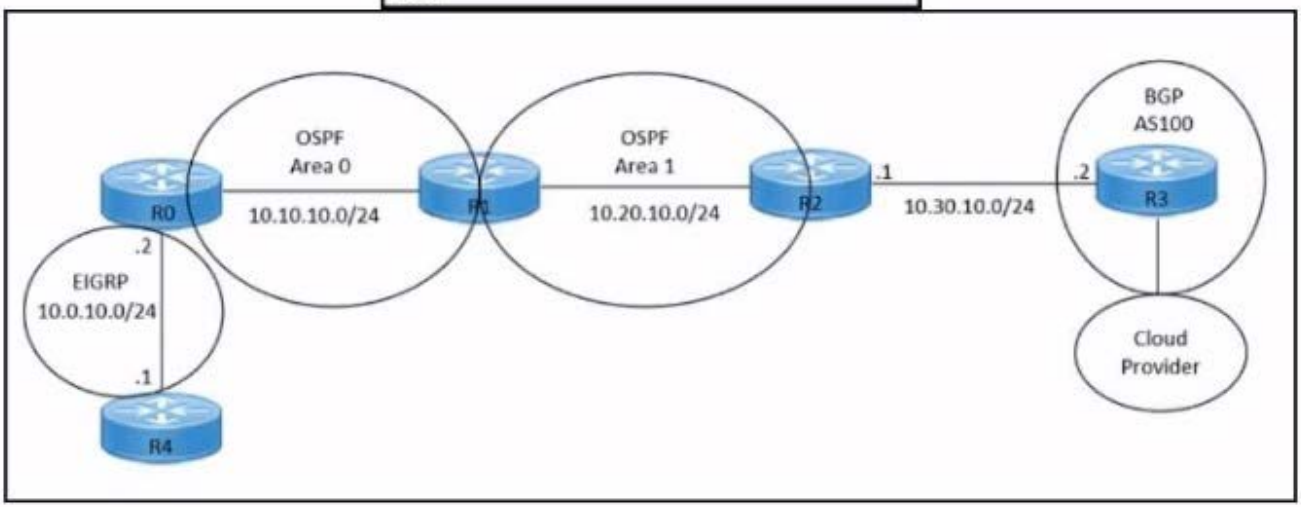
1: Designing and Implementing Cloud Connectivity (ENCC, Track 1 of 5) (Cisco U.login required)

2: Cisco SD-WAN Design Guide

QUESTION 2

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
!
neighbor 10.30.10.2 remote-as 100
!
end
```



An engineer must redistribute OSPF internal routes into BGP to connect an on-premises network to a cloud provider without introducing extra routes. Which two commands must be configured on router R2? (Choose two.)

A. router ospf 1

B. router bgp 100

C. redistribute ospf 1

D. redistribute bgp 100

E. redistribute ospf 1 match internal external

Correct Answer: BE

To redistribute OSPF internal routes into BGP, the engineer needs to configure two commands on router R2. The first command is router bgp 100, which enables BGP routing process and specifies the autonomous system number of 100.

The second command is redistribute ospf 1 match internal external, which redistributes the routes from OSPF process into BGP, and matches both internal and external OSPF routes. This way, the engineer can avoid introducing extra routes

that are not part of OSPF process 1, such as the default route or the connected routes.

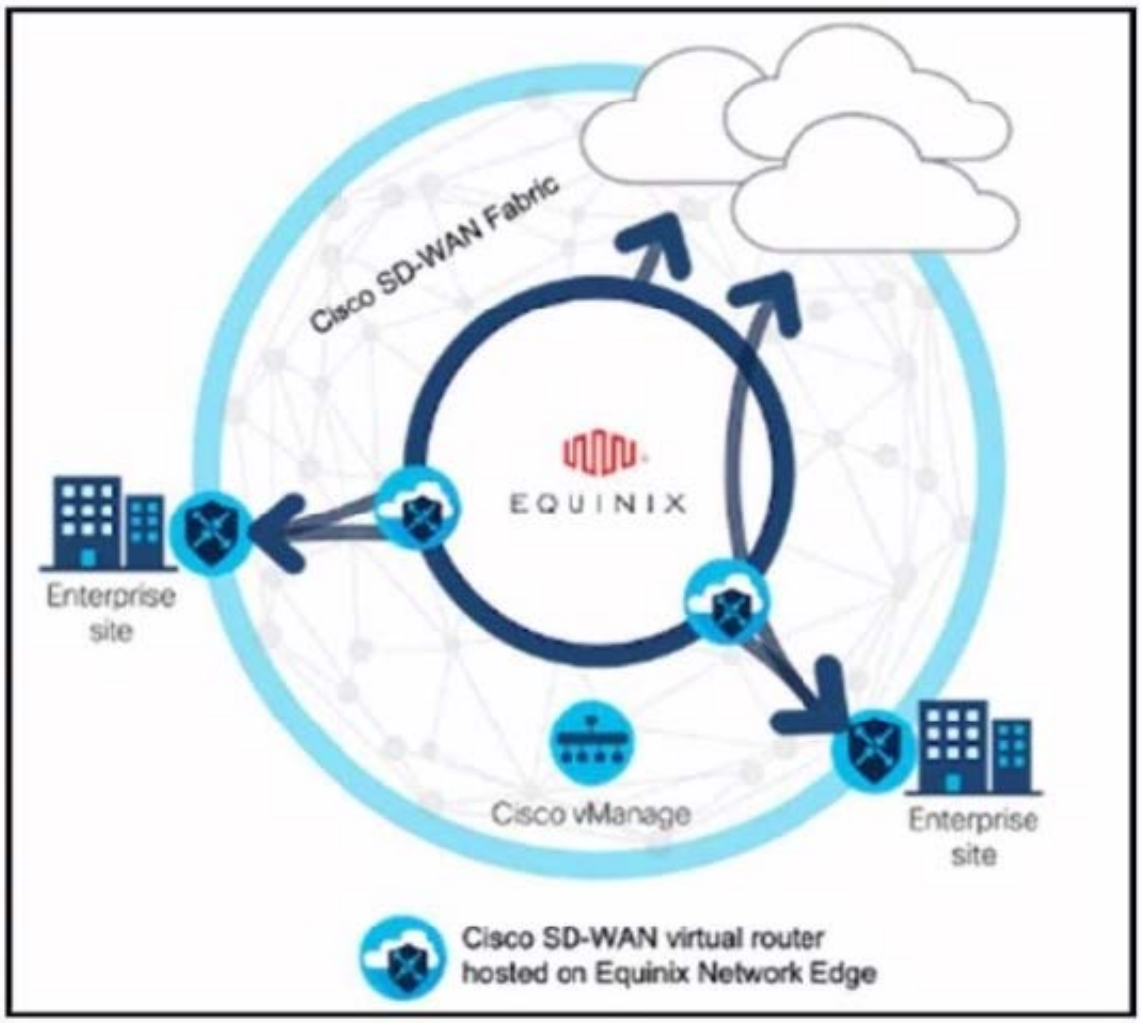
References:

Designing and Implementing Cloud Connectivity (ENCC) v1.0, [ENCC: Configuring IPsec VPN from Cisco IOS XE to AWS], [Deploying Cisco IOS VTI-Based Point-to-Point IPsec VPNs]

QUESTION 3

DRAG DROP

Refer to the exhibit.



These configurations are complete:

1.

Create an account in the Equinix portal.

2.

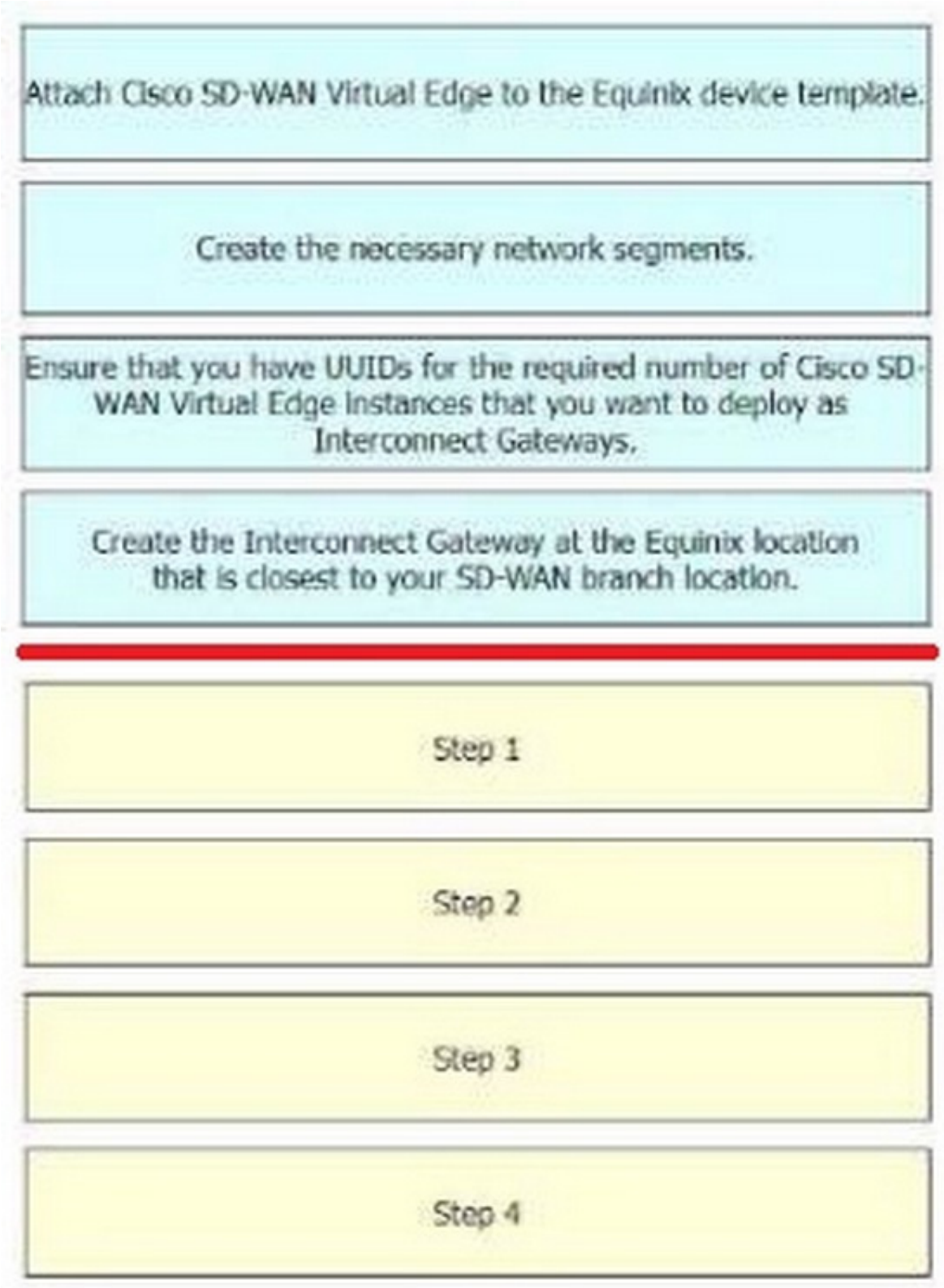
Associate the Equinix account with Cisco vManage.

3.

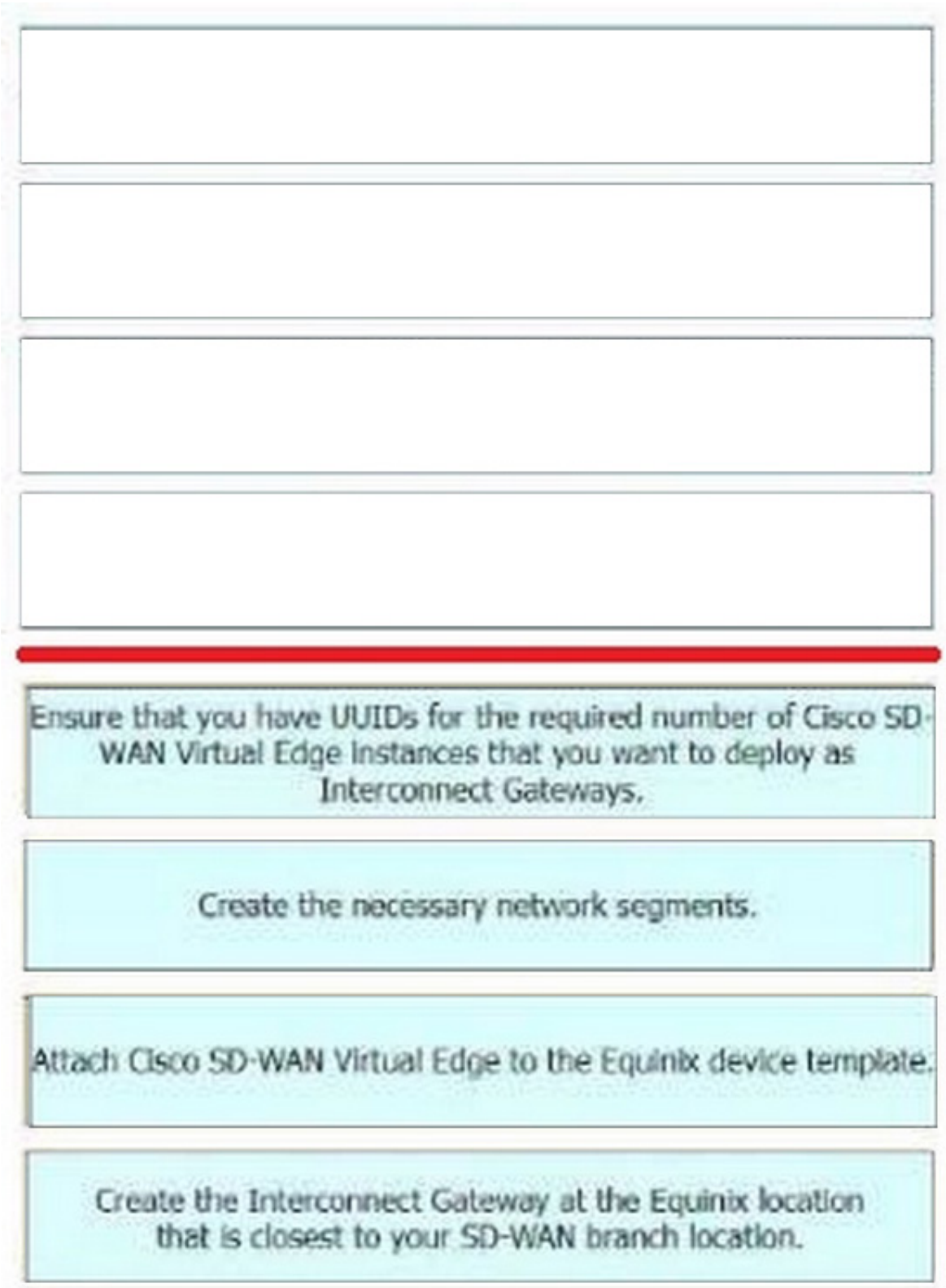
Configure the global settings for Interconnect Gateways.

Drag the prerequisite steps from the left onto the order on the right to configure a Cisco SD-WAN Cloud Interconnect with Equinix

Select and Place:



Correct Answer:



The process of configuring a Cisco SD-WAN Cloud Interconnect with Equinix involves several steps.

Ensure that you have UUIDs for the required number of Cisco SD WAN Virtual Edge instances that you want to deploy as Interconnect Gateways: This is the first step where you ensure that you have the necessary UUIDs for the Cisco

SDWAN Virtual Edge instances that you want to deploy.

Create the necessary network segments: After ensuring the availability of UUIDs, you create the necessary network segments.

Attach Cisco SD-WAN Virtual Edge to the Equinix device template: After setting up the network segments, you attach the Cisco SD-WAN Virtual Edge to the Equinix device template.

Create the Interconnect Gateway at the Equinix location that is closest to your SD- WAN branch location: Finally, you create the Interconnect Gateway at the Equinix location that is closest to your SD-WAN branch location.

References:

[Cisco SD-WAN Cloud Interconnect with Equinix]

[Cisco SD-WAN Cloud OnRamp for CoLocation Deployment Guide]

QUESTION 4

A company with multiple branch offices wants a suitable connectivity model to meet these network architecture requirements:

1.

high availability

2.

quality of service (QoS)

3.

multihoming

4.

specific routing needs

Which connectivity model meets these requirements?

A. hub-and-spoke topology using MPLS with static routing and dedicated bandwidth for QoS

B. star topology with internet-based VPN connections and BGP for routing

C. hybrid topology that combines MPLS and SD-WAN

D. fully meshed topology with SD-WAN technology using dynamic routing and prioritized traffic for QoS

Correct Answer: D

A fully meshed topology with SD-WAN technology using dynamic routing and prioritized traffic for QoS meets the network architecture requirements of the company. A fully meshed topology provides high availability by eliminating single

points of failure and allowing multiple paths between branch offices. SD-WAN technology enables multihoming by

supporting multiple transport options, such as MPLS, internet, LTE, etc. SD-WAN also provides QoS by applying policies to

prioritize traffic based on application, user, or network conditions. Dynamic routing allows the SD-WAN solution to adapt to changing network conditions and optimize the path selection for each traffic type. A fully meshed topology with SDWAN technology can also support specific routing needs, such as segment routing, policy-based routing, or application-aware routing.

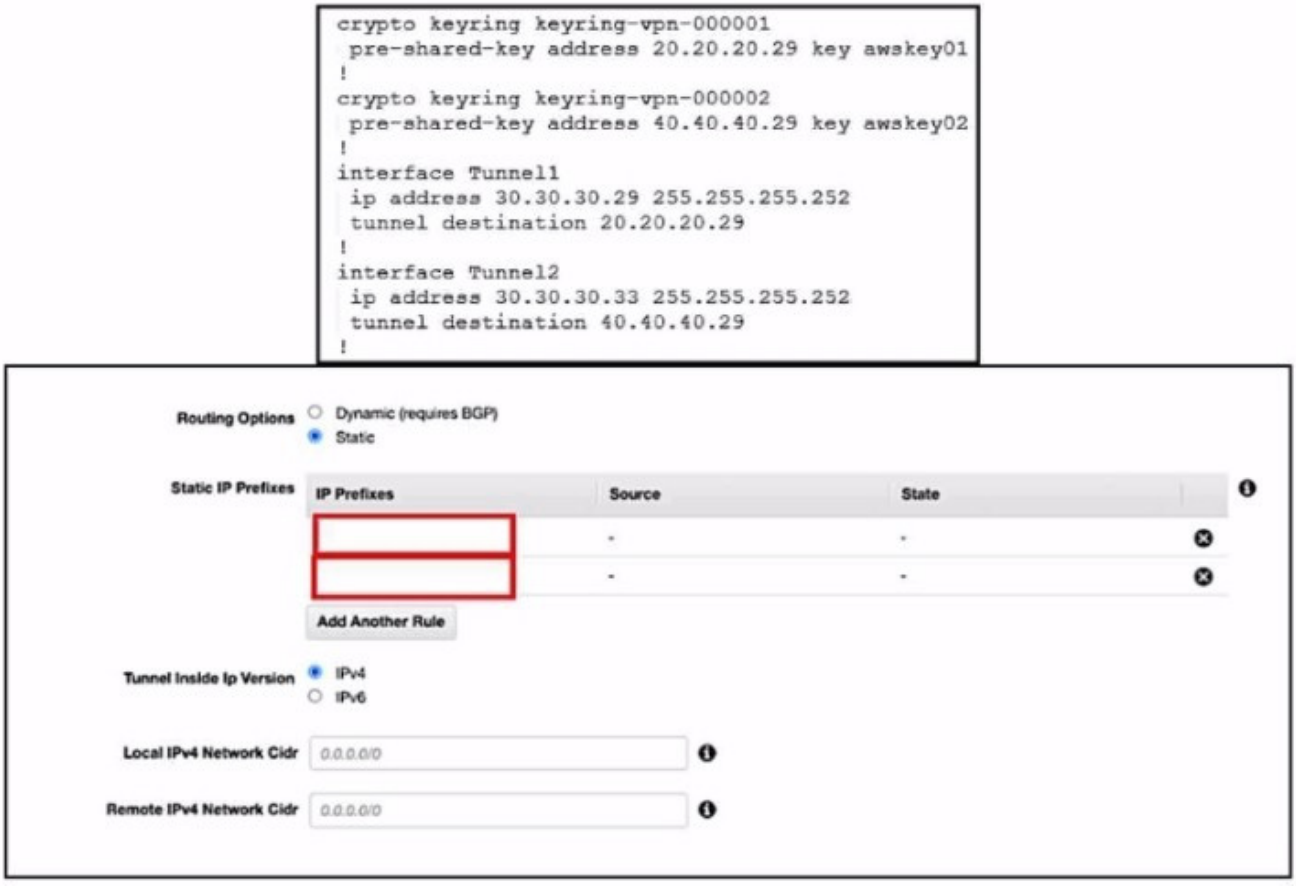
References:

Designing and Implementing Cloud Connectivity (ENCC) v1.0 [Cisco SD-WAN Design Guide]

[Cisco SD-WAN Configuration Guide]

QUESTION 5

Refer to the exhibits.



An engineer needs to configure a site-to-site IPsec VPN connection between an on premises Cisco IOS XE router and Amazon Web Services (AWS). Which two IP prefixes should be used to configure the AWS routing options? (Choose two.)

A. 30.30.30.0/30

B. 20.20.20.0/24

C. 30.30.30.0/24

D. 50.50.50.0/30

E. 40.40.40.0/24

Correct Answer: AE

The correct answer is A and E because they are the IP prefixes that match the tunnel interfaces on the Cisco IOS XE router. The AWS routing options should include the local and remote IP prefixes that are used for the IPsec tunnel endpoints. The other options are either the public IP addresses of the routers or the LAN subnets that are not relevant for the IPsec tunnel configuration. References= Designing and Implementing Cloud Connectivity (ENCC) v1.0, Configure IOS-XE Site-to-Site VPN Connection to Amazon Web Services, Site-to-Site VPN with Amazon Web Services