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To take the Cisco 300-510 certification exam, candidates need to have a solid understanding of the fundamentals of routing and switching, as well as experience with configuring and troubleshooting Cisco routers and switches in a service provider network environment. They should also have a good understanding of IP addressing and routing protocols such as OSPF and BGP. 300-510 exam consists of 60-70 questions and lasts for 90 minutes.

To prepare for the Cisco 300-510 Exam, candidates can take advantage of various learning resources provided by Cisco, such as instructor-led training courses, e-learning modules, and study materials. Additionally, candidates can gain hands-on experience by practicing in a lab environment or working on real-world projects.

>> 300-510 Test Dates <<

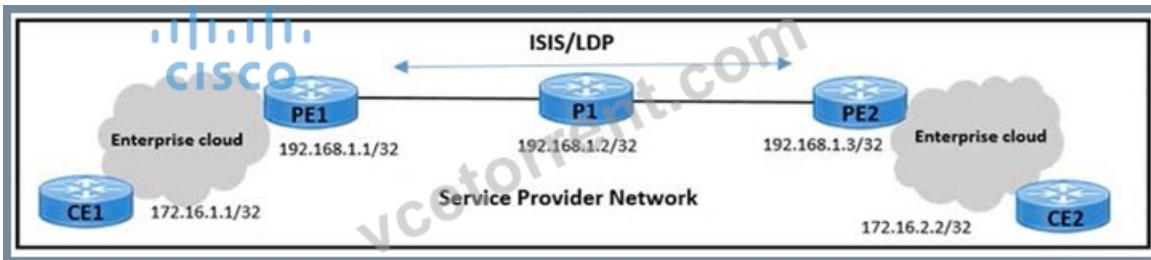
100% Pass Quiz 2025 300-510: Professional Implementing Cisco Service Provider Advanced Routing Solutions Test Dates

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Cisco Implementing Cisco Service Provider Advanced Routing Solutions Sample Questions (Q116-Q121):

NEW QUESTION # 116

Refer to the exhibit.



Refer to the exhibit. An engineer working for a private telecommunication company with an employee id 4115 46 881 is enabling a segment routing solution with these requirements.

A service provider is using the default range for prefix SID.

PE1 must allocate the first SID from the default range for the loopback address PE1 and PE2 loopback SID allocation should have a minimum difference of 500.

Which configuration must be implemented to meet the requirements?

- ☐ PE1(config-isis-if-af)# adjacency-sid absolute 16201
PE2(config-isis-if-af)# adjacency-sid absolute 16710
- ☐ PE1(config-isis-if-af)# prefix-sid absolute 16001
PE2(config-isis-if-af)# prefix-sid index 610
- ☐ PE1(config-isis-if-af)# prefix-sid absolute 16201
PE2(config-isis-if-af)# prefix-sid absolute 16710
- ☐ PE2(config-isis-if-af)# adjacency-sid absolute 16001
PE1(config-isis-if-af)# adjacency-sid index 610

- A. Option D
- **B. Option B**
- C. Option C
- D. Option A

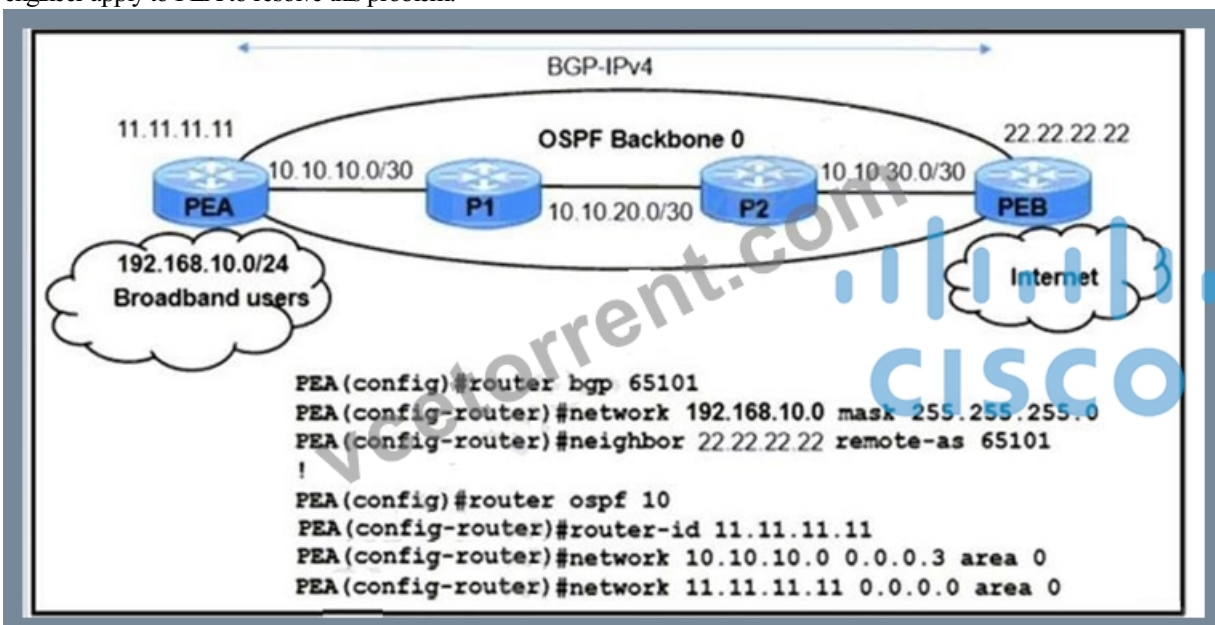
Answer: B

NEW QUESTION # 117

Refer to the exhibit. The service provider environment has these configurations:

- The OSPF backbone area is configured to advertise loopback prefixes.
- The PE routers run the BGP-IPv4 address family in a BGP-free core topology.
- The broadband users IP subnet 192.168.10.0/24 is redistributed in BGP on PEA.

The operations team noticed route disruptions when broadband subscriber 192.168.10.8 goes offline. Which configuration must an engineer apply to PEA to resolve this problem?



- A. PEA(Config)# ip route 192.168.10.0 255.255.255.0 Null0
PEA(Config)# Router BGP 65101
PEA(Config-router)# redistribute static
- B. PEA(config)# router bgp 65101
PEA(config-router)# network 192.168.10.0 255.255.255.255
PEA(Config)# Router ospf 10
PEA(Config-router)# redistribute bgp 65101
- C. PEA(Config)# ip route 192.168.10.0 255.255.255.0 Null0
PEA(Config)# Router ospf 10
PEA(Config-router)# redistribute static
- D. PEA(config)# router ospf 10
PEA(config-router)# network 192.168.10.0 0.0.0.255 area 0
PEA(Config)# Router BGP 65101
PEA(Config-router)# redistribute ospf 10

Answer: A

Explanation:

The broadband IP subnet 192.168.10.0/24 is redistributed into BGP. When 192.168.10.8 (a specific host) goes offline, this likely causes the route for 192.168.10.0/24 to flap or be withdrawn from BGP because the redistributed route depends on the presence of live hosts. This can cause disruptions for other hosts within the same subnet.

To stabilize the route advertisement in BGP, a static route to Null0 is configured for the entire subnet 192.168.10.0/24. The static route ensures that the prefix remains in the routing table regardless of host reachability. Redistributing the static route into BGP ensures that the prefix remains consistently advertised.

The ip route 192.168.10.0 255.255.255.0 Null0 creates a "dummy" static route that keeps the prefix in the routing table. The redistribute static command in BGP ensures the static route is advertised.

NEW QUESTION # 118

Refer to the exhibit.

```

RP/0/0/CPU/0:P1#
!
key chain BGP
key 1
accept-lifetime 13:14:06 february 14 1993 infinitive
send-lifetime 13:14:06 february 14 1993 infinitive
key-string password cisco123
cryptographic-algorithm MD5
!
!
router bgp 1
address-family ipv4 unicast
!
neighbor 192.168.13.3
remote-as 1
keychain BGP
address-family ipv4 unicast

```

```

RP/0/0/CPU/0:PE3#
!
key chain BGP
key 1
accept-lifetime 13:14:06 february 14 1993 infinitive
send-lifetime 13:14:06 february 14 1993 infinitive
key-string password cisco123
cryptographic-algorithm MD5
!
!
router bgp 1
address-family ipv4 unicast
!
neighbor 192.168.13.1
remote-as 1
keychain BGP
address-family ipv4 unicast

```

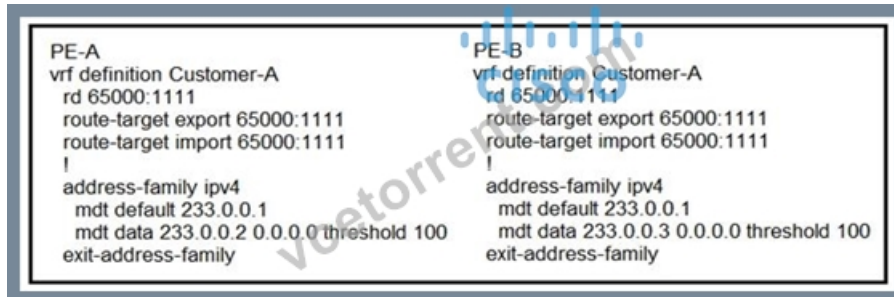
P1 and PE3 Cisco IOS XR routers are directly connected and have this configuration applied. The BGP session is not coming up. Assume that there is no IP reachability problem and both routers can open tcp port 179 to each other. Which two actions fix the issue? (Choose two.)

- A. Change MD5 to HMAC-MD5
- B. Change MD5 to SHA-1
- C. Change MD5 to HMAC-SHA1-12
- D. Change MD5 to HMAC-ESP
- E. Remove the send and accept lifetime under key 1

Answer: A,C

NEW QUESTION # 119

Refer to the exhibit.



Which tree does multicast traffic follow?

- A. MDT voice
- B. shared tree
- C. source tree
- D. MDT default

Answer: D

NEW QUESTION # 120

An ISP has an MPLS VPN-based network with 12 PE routers. How many peerings are required between the 12 routers if the engineer has not configured route reflectors?

- A. 0
- B. 1
- C. 2
- D. 3

Answer: C

NEW QUESTION # 121

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