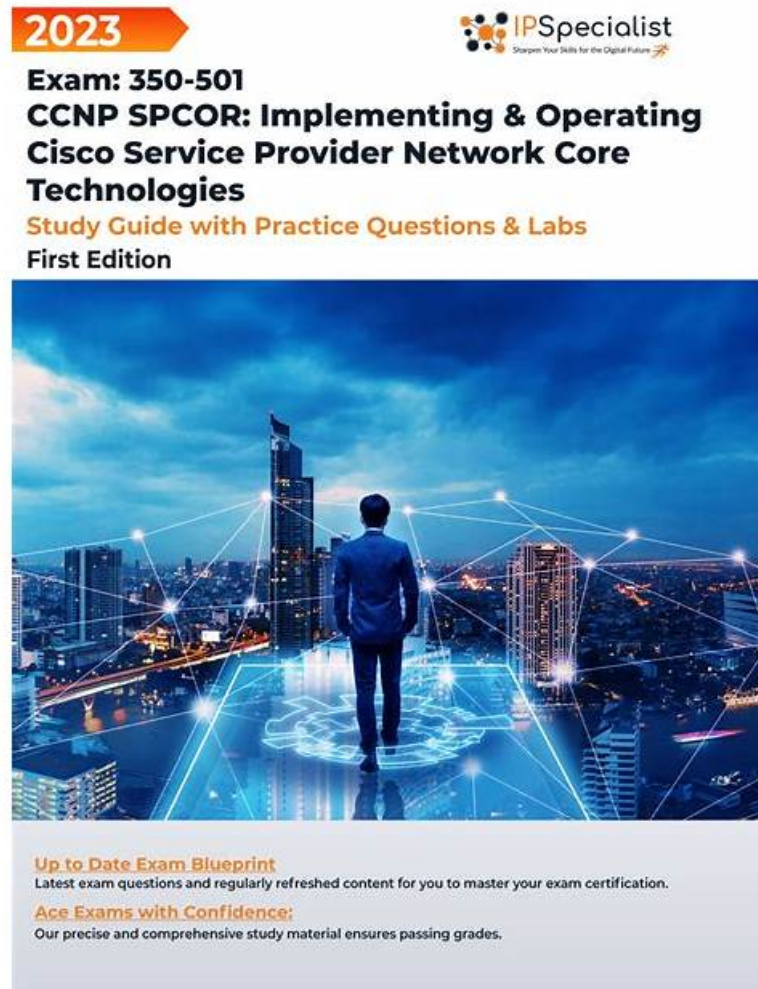


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Cisco Implementing and Operating Cisco Service Provider Network Core Technologies Sample Questions (Q182-Q187):

NEW QUESTION # 182



Refer to the exhibit. When implementing an LDP protocol, an engineer experienced an issue between two directly connected routers and noticed that no LDP neighbor exists for 1.1.1.1.

Which factor should be the reason for this situation?

- A. R2 does not see any hellos from R1.
- **B. LDP needs to be enabled on the R2 physical interface.**
- C. LDP needs to be enabled on the R2 loopback interface.
- D. R2 sees the wrong type of hellos from R1.

Answer: B

Explanation:

Section: MPLS and Segment Routing

NEW QUESTION # 183

While implementing TTL security, an engineer issues the `PE(config-router-af)#neighbor 2.2.2.2 ttl-security hops 2` command. After issuing this command, which BGP packets does the PE accept?

- A. to 2.2.2.2, with a TTL of 2 or more
- **B. from 2.2.2.2, with a TTL of 253 or more**
- C. to 2.2.2.2, with a TTL of less than 253
- D. from 2.2.2.2, with a TTL of less than 2

Answer: B

Explanation:

The `ttl-security hops <number>` command sets the maximum number of hops that a BGP message can traverse. In this case, setting `ttl-security hops 2` means that the router will accept BGP packets from a neighbor (2.2.2.2) only if the TTL is 253 or more. This is because the default TTL value is 255, and for each hop, the TTL is decremented by 1. Therefore, a packet from a directly connected neighbor would have a TTL of 254 when it reaches the PE router. If the packet has traversed one more router (making it two hops away), the TTL would be 253 upon arrival.

This information is based on the TTL security mechanism described in the Implementing and Operating Cisco Service Provider Network Core Technologies (SPCOR) training materials,

NEW QUESTION # 184

Refer to the exhibit.



The network engineer who manages ASN 65010 is provisioning a customer VRF named CUSTOMER-ABC on PE-2. The PE-CE routing protocol is OSPF Internet reachability is available via the OSPF 0 0 0.0/0 route advertised by CE-1 to PE-1 In the customer VRF Which configuration must the network engineer Implement on PE-2 so that CE-2 has connectivity to the Internet?

A)

```

vrf definition CUSTOMER-ABC
rd 65010:1
address-family ipv4
route-target both 65010:1
!
router ospf 100 vrf CUSTOMER-ABC
network 100.65.0.4 0.0.0.3 area 0
redistribute bgp 65010 subnets
default-information originate
!
router bgp 65010
address-family ipv4 unicast vrf CUSTOMER-ABC
redistribute ospf 100 match internal external
  
```

B)

```

vrf definition CUSTOMER-ABC
rd 65010:2
address-family ipv4
route-target both 65010:100200
!
router ospf 100 vrf CUSTOMER-ABC
network 100.65.0.4 0.0.0.3 area 0
redistribute bgp 65010 subnets
!
router bgp 65010
address-family ipv4 unicast vrf CUSTOMER-ABC
redistribute ospf 100 match internal external
  
```

C)

```

vrf definition CUSTOMER-ABC
rd 65010:1
address-family ipv4
route-target both 65010:100200
!
router ospf 100 vrf CUSTOMER-ABC
network 100.65.0.4 0.0.0.3 area 0
redistribute bgp 65010 subnets
default-information originate
!
router bgp 65010
address-family ipv4 unicast vrf CUSTOMER-ABC
redistribute ospf 100 match internal external

```

D)

```

vrf definition CUSTOMER-ABC
rd 65010:2
address-family ipv4
route-target both 65010:1
!
router ospf 100 vrf CUSTOMER-ABC
network 100.65.0.4 0.0.0.3 area 0
redistribute bgp 65010 subnets
!
router bgp 65010
address-family ipv4 unicast vrf CUSTOMER-ABC
redistribute ospf 100 match internal external

```

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

Answer: A

NEW QUESTION # 185

Refer to the exhibit.

```

CE1#
interface FastEthernet0/0/1
description **** HUB CE router ****
ip address 10.0.12.1 255.255.255.0

router ospf 100
log-adjacency-changes
network 10.0.12.0 0.0.255.255 area 0

CE2#
interface Serial0/0/9
description **** SPOKE CE router ****
encapsulation ppp
ip address 10.0.12.12 255.255.255.0

router ospf 100
log-adjacency-changes
network 10.0.12.0 0.0.255.255 area 0

```

A network engineer is configuring customer edge routers to finalize a L2VPN over MPLS deployment. Assume that the AToM L2VPN service that connects the two CEs is configured correctly on the service provider network. Which action causes the solution to fail?

- A. A loopback with a /32 IP address has not been used
- **B. The x connect statement has not been defined**
- C. The routing protocol network types are not compatible
- D. OSPF does not work with L2VPN services

Answer: B

NEW QUESTION # 186

A backbone carrier is approached by an ISP_A which provides L3VPN services. The ISP_A requires MPLS VPN services from the backbone carrier to establish connectivity between the two POPs of the ISP_A. Which label protocol should the backbone carrier use to provide the proper connectivity that the ISP_A requires?

- A. GRE
- B. mGRE
- C. L2TPv2
- **D. LDP**
- E. BGP
- F. L2TPv3

Answer: D

NEW QUESTION # 187

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