



642-885^{Q&As}

Deploying Cisco Service Provider Advanced Routing

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**QUESTION 1**

Refer to the exhibit for the outputs from an ASR9K router.

```
RP/0/RSP0/CPU0:PE1#show route ipv6
Wed Oct 26 20:57:46.433 UTC

Codes: C - connected S - static, R - RIP, B - BGP
       D - EIGRP, EX - EIGRP external, O - OSPF, IA - OSPF inter area
       N1 - OSPF NSSA external type 1, N2 - OSPF NSSA external type 2
       E1 - OSPF external type 1, E2 - OSPF external type 2, E - EGP
       i - ISIS, L1 - IS-IS level-1, L2 - IS-IS level-2
       ia - IS-IS inter area, su - IS-IS summary null, * - candidate default
       U - per-user static route, o - ODR, L - local, S - DAGR
       A - access/subscriber, (!) - FRR Backup path

Gateway of last resort is not set

L   2001:db8:10:1:1::1/128 is directly connected,
    09:20:18, Loopback0
i L2 2001:db8:10:1:10::1/128
    [105/20] via fe80::eab7:48ff:fe2c:a180, 07:59:22, GigabitEthernet0/0/0/0
C   2001:db8:192:168:101::/80 is directly connected,
    1d05h, GigabitEthernet0/0/0/0
L   2001:db8:192:168:101::10/128 is directly connected,
    1d05h, GigabitEthernet0/0/0/0

RP/0/RSP0/CPU0:PE1#ping 2001:db8:10:1:10::1/128
Wed Oct 26 20:58:01.369 UTC
%Bad hostname or protocol not running
```

Why did the ping fail?

- A. The ping command is missing the ipv6 option: ping ipv6 2001:db8:10:1:10::1/128
- B. There is a problem with the IS-IS configurations
- C. The fe80::eab7:48ff:fe2c:a180 next-hop is not reachable
- D. The prefix length should be removed from the IPv6 address in the ping command: ping ipv6 2001:db8:10:1:10::1
- E. IPv6 is not enabled on the Gi0/0/0/0 interface
- F. The IPv6 neighbor discovery protocol is not enabled on the Gi0/0/0/0 interface



Correct Answer: D

QUESTION 2



Instructions

Enter the proper CLI commands and analyze the outputs on the Cisco routers to answer the multiple-choice questions.

From the network topology diagram, click on each of the router icon to gain access to the console of each router.

No console or enable passwords are required.

There are four multiple-choice questions with this task. Be sure to answer all four questions before selecting the Next button.

Not all the CLI commands or commands options are supported or required for this simulation. If a certain command or command option is not supported, please try to use a different command that is supported.

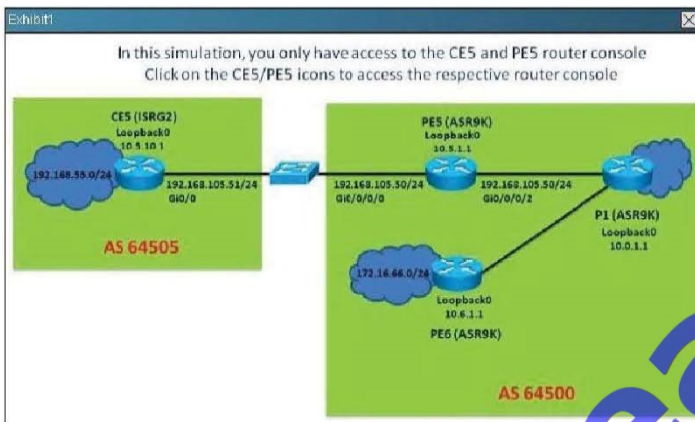
For example, the show running-config and the ping commands are **NOT** supported in this simulation.

All the devices in this simulation have been pre-configured and you are not required to enter in any configurations.

Scenario

Referring to the network topology diagram shown in the exhibit, use the proper CLI commands on the CE5 and PE5 routers and interpret the supported CLI commands outputs to answer the four multiple choice questions.

Note: The CE5 router is an IOS router and the PE5 router is an IOS-XR router.





Which three statements regarding the BGP operations are correct? (Choose three)

- A. PE5 is the route reflector with P1 and PE6 as its client
- B. PE5 is using the IS-IS route to reach the BGP next-hop for the 172.16.66.0/24 prefix
- C. PE5 has BGP route dampening enabled
- D. The BGP session between PE5 and P1 is established using the loopback interface and next- hop-self
- E. The BGP session between PE5 and CE5 is established using the loopback interface

Correct Answer: ACD

QUESTION 3

Refer to the exhibit.



```
router bgp 65123
  bgp cluster-id 17
  address-family ipv4 unicast
  exit
```

Given the partial BGP configuration, which configuration correctly completes the Cisco IOS-XR route reflector configuration where both the 1.1.1.1 and 2.2.2.2 routers are the clients and the 3.3.3.3 router is a non-client IBGP peer?

- A. neighbor 1.1.1.1 remote-as 65123 route-reflector-client neighbor 2.2.2.2 remote-as 65123 route-reflector-client neighbor 3.3.3.3 remote-as 65123
- B. neighbor 1.1.1.1 address-family ipv4 unicast remote-as 65123 route-reflector-client neighbor 2.2.2.2 address-family ipv4 unicast remote-as 65123 route-reflector-client neighbor 3.3.3.3 address-family ipv4 unicast remote-as 65123
- C. neighbor 1.1.1.1 remote-as 65123 address-family ipv4 unicast route-reflector-client neighbor 2.2.2.2 remote-as 65123 address-family ipv4 unicast route-reflector-client neighbor 3.3.3.3 remote-as 65123
- D. neighbor 1.1.1.1 remote-as 65123 neighbor 1.1.1.1 route-reflector-client neighbor 2.2.2.2 remote-as 65123 neighbor 2.2.2.2 route-reflector-client neighbor 3.3.3.3 remote-as 65123

Correct Answer: C

QUESTION 4

When a BGP route reflector receives an IBGP update from a non-client IBGP peer, the route reflector will then forward the IBGP updates to which other router(s)?

- A. To the other clients only
- B. To the EBGP peers only
- C. To the EBGP peers and other clients only
- D. To the EBGP peers and other clients and non-clients

Correct Answer: C

QUESTION 5

What is determined by running the same hash algorithm on all PIMv2 routers?

- A. The SPT from the RP to the multicast source
- B. The SPT from the last hop router to the multicast source
- C. Auto RP election
- D. Which BSR to use for a particular multicast group



E. Which RP to use from a set of candidate RPs in the RP set

Correct Answer: E

bsr candidate-bsr

To configure the router to announce its candidacy as a bootstrap router (BSR), use the **bsr candidate-bsr** command in router pim configuration mode. To return to the default behavior, use the **no** form of this command.

bsr candidate-bsr *ip-address* [hash-mask-len *length*] [*priority value*]

no bsr candidate-bsr *ip-address* [hash-mask-len *length*] [*priority value*]

Syntax Description

<i>ip-address</i>	IP address of the BSR router for the domain. For IPv4, this is an IP address in four-part dotted-decimal notation. For IPv6, the IP address is specified in hexadecimal format using 16-bit values between colons.
hash-mask-len <i>length</i>	<p>(Optional) Length of a mask that is to be used in the hash function.</p> <ul style="list-style-type: none"> All groups with the same seed hash (correspond) to the same RP. For example, if this value is 24, only the first 24 bits of the group addresses matter. This fact allows you to get one RP for multiple groups. For IPv4 addresses, a value of 30 is recommended. The range is 0 to 32. For IPv6 addresses, a value of 126 is recommended. The range is 0 to 128.
<i>priority value</i>	(Optional) Priority of the candidate BSR. Range is 1 to 255. The BSR with the higher priority is recommended. If the priority values are the same, the router with the higher IP address is the BSR.



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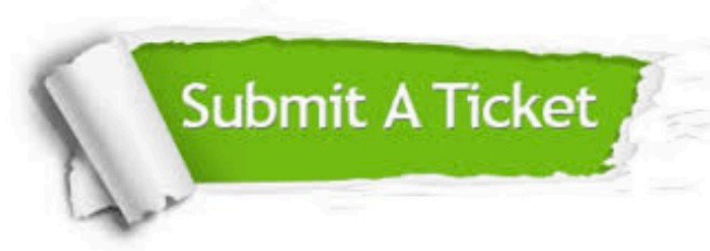
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