



# 642-885<sup>Q&As</sup>

Deploying Cisco Service Provider Advanced Routing

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### QUESTION 1

The 224.192.16.1 multicast IP address maps to which multicast MAC address?

- A. 01-00-5E-C0-10-01
- B. 01-00-5E-40-10-01
- C. 01-00-5E-00-10-01
- D. 01-00-5E-C0-16-01

Correct Answer: B

Least significant 23 bits of IP address and pre-pend 01-00-5E

224 ignore 192 less 128 becomes 64 = 40 16 = 10 1 = 01 01-00-5E-40-10-01

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### QUESTION 2

When configuring PIM operations, what is the effect of setting the SPT threshold to infinity?

- A. The multicast source to the RP path will never switch over to the shortest path tree
- B. All the PIM routers will have more (S,G) states, thus consuming more router resources
- C. The receivers will be able to immediately switch over to the shortest path tree after receiving the first multicast packets on the shared tree via the RP
- D. The last-hop routers will never switch over to the shortest path tree and will always remain on the shared tree

Correct Answer: D

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### QUESTION 3



## boundary

To configure the multicast boundary on an interface for administratively scoped multicast addresses, use the **boundary** command in the appropriate configuration mode. To return to the default behavior, use the **no** form of this command.

**boundary** *access-list*

**no boundary** *access-list*

### Syntax Description

<i>access-list</i>	Access list specifying scoped multicast groups. The name cannot contain a space or quotation mark; it may contain numbers.
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### Defaults

A multicast boundary is not configured.

### Command Modes

Multicast routing interface configuration

Multicast routing VRF interface configuration



Given the IPv6 address of 2001:0DB8::1:800:200E:88AA, what will be its corresponding the solicited-node multicast address?

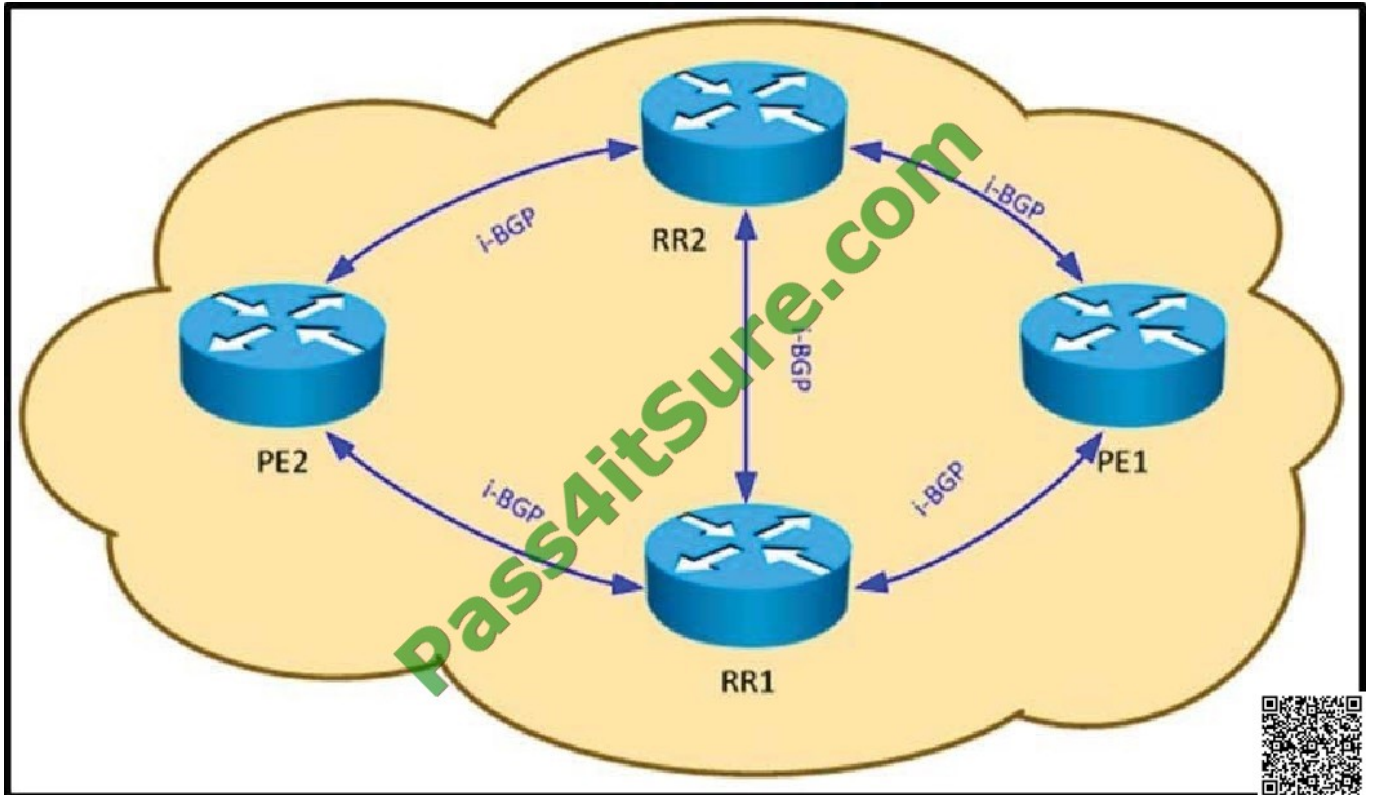
- A. FF01::1:200E:88AA
- B. FF01::1:FF0E:88AA
- C. FF01:0DB8::1:800:200E:88AA
- D. FF02::1:FF0E:88AA
- E. FF02::1:200E:88AA
- F. FF02:0DB8::1:800:200E:88AA

Correct Answer: D

IPv6 nodes (hosts and routers) are required to join (receive packets destined for) the following multicast groups: -All-nodes multicast group FF02:0:0:0:0:0:0:1 (scope is link-local) -Solicited-node multicast group FF02:0:0:0:0:1:FF00:0000/104 for each of its assigned unicast and anycast addresses IPv6 routers must also join the all-routers multicast group FF02:0:0:0:0:0:0:2 (scope is link- local). The solicited-node multicast address is a multicast group that corresponds to an IPv6 unicast or anycast address. IPv6 nodes must join the associated solicitednode multicast group for every unicast and anycast address to which it is assigned. The IPv6 solicited-node multicast address has the prefix FF02:0:0:0:0:1: FF00:0000/104 concatenated with the 24 low-order bits of a corresponding IPv6 unicast or anycast address (see Figure 2). For example, the solicited-node multicast address corresponding to the IPv6 address 2037::01:800:200E:8C6C is FF02::1:FF0E:8C6C. Solicited-node addresses are used in neighbor solicitation messages

## QUESTION 4

Refer to the exhibit.



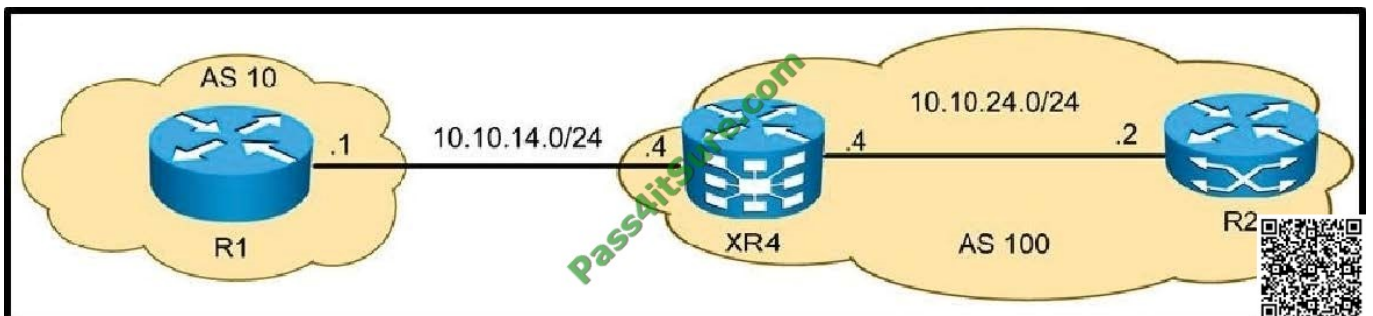
Which configuration ensures that RR2 does not send the same updates to PE2 that RR1 learns via PE1?

- A. RR1 and RR2 should have different router IDs.
- B. RR1 and RR2 should have different originator IDs.
- C. RR1 and RR2 should have the same router IDs.
- D. RR1 and RR2 should have the same cluster IDs.

Correct Answer: D

**QUESTION 5**

Refer to the exhibit.



XR4 must protect itself from a DOS attack against its BGP process from R1 by using the TTL security feature. Which configuration achieves this goal?



- A. router bgp 100 neighbor 10.10.14.1 ttl-security
- B. router bgp 100 neighbor 10.10.14.1 ttl-security hops 1
- C. router bgp 100 neighbor 10.10.14.1 ttl-security hops 254
- D. router bgp 100 neighbor 10.10.14.1 ttl-security hops 255

Correct Answer: A

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