

300-510^{Q&As}

Implementing Cisco Service Provider Advanced Routing Solutions (SPRI)

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Refer to the exhibit.

"PE#show ip msdp peer
MSDP Peer 10.10.10.10 (?), AS ?
Connection status:
State: Listen, Resets: 0, Connection source: none configured
Uptime (Downtime): 00:00:07, Messages sent/received: 0/0
Output messages discarded: 0
Connection and counters cleared 00:00:7 ago
SA Filtering:
Input (S, G) filter: none, route-map: none
Input RP filter: none, route-map: none
Output (S, G) filter: none, route-map: none
Output RP filter: none, route-map: none
SA-Requests:
Input filter: none
Peer ttl threshold: 0
SAs learned from this peer: 0
Input queue size: 0, Output queue size: 0"

A service provider technician is working on a multicast issue for a customer. While checking the multicast table, the technician notices that no flags are present for the (1.1.1.1, 239.1.1.1) entry, yet flags are present for the (1.1.1.1, 232.1.1.1) entry.

Which factor might explain this issue?

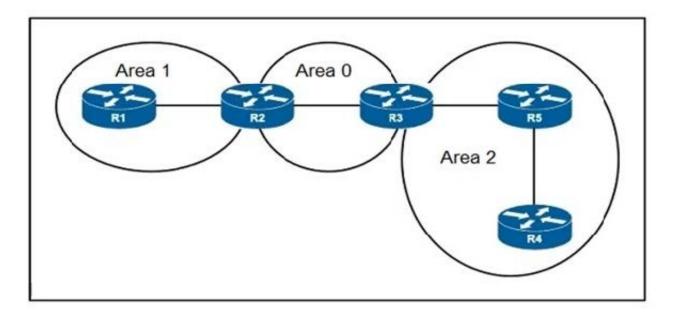
- A. Only the administratively scoped range is permitted
- B. Only ASM is permitted
- C. Only the default SSM range is permitted
- D. Only GLOP is permitted

Correct Answer: C

QUESTION 2

Refer to the exhibit.





A network engineer applied configuration on R5 to summarize all OSPF routes, but R4 is still receiving specific routes from R5. The engineer has confirmed that both R5 and R4 routers are configured with correct summarization configuration, but R5 is not sending the summary routes. What action must the engineer take to fix the problem?

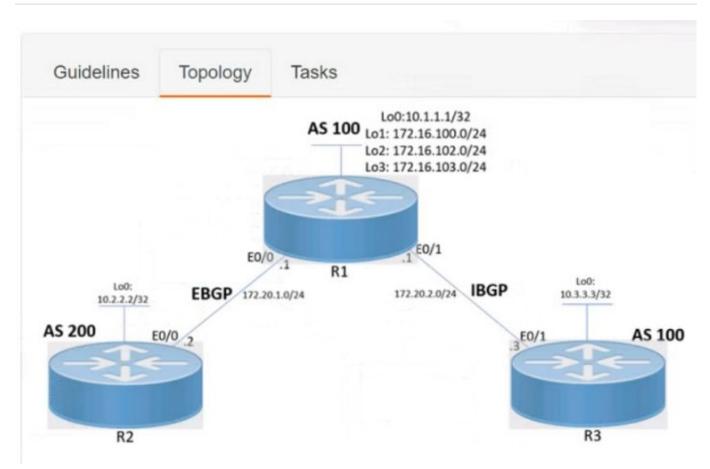
- A. Remove summarization configuration on R5 and configure it on R4
- B. Clear link-state database on both R4 and R5 routers for summarization to work
- C. Configure a sham link between R4 and R5 to support summarization within Area 2
- D. Move R4 and R5 in separate areas as now they maintain the same link-state database

Correct Answer: D

QUESTION 3

CORRECT TEXT





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Guidelines	Topology	Tasks		
Troublesho achieve the		figure BGI	P according to t	he topology to
	ack addres		P connectivity u pdates should	
These	changes m	nust be ac	complished thro	
	vertises onl 6.100.0/22 1	-	mary route of R3.	De
			Submit feedb	back about this item.
Check the answer in th	ne explanation			
Placeholder				
Placeholder				
Placeholder				
rrect Answer: A				

Solution : R1 Router bgp 100 Neigh 10.3.3.3 remote-as 100 Neigh 10.3.3.3 update-source loopback0

Address-family ipv4 Neigh 10.3.3.3 next-hop-self Aggregate-address 172.16.100.0 255.255.252.0 summary-only

Copy run start

R3 Router bgp 100 Neigh 10.1.1.1 remote-as 100 Neigh 10.1.1.1 update-source loopback 0

Copy run start



Verification:

R3#ping 10.2.2.2 Type escape sequence to abort. Sending 5, 100-byte ICMP Echos to 10.2.2.2, timeout is 2 seconds: !!!!! Success rate is 100 percent (5/5), round-trip min/avg/max = 1 /1/1 ms R3#

R3#show ip route Codes: L - local, C - connected, S - static, R - RIP, M - mob ile, B - BGP D - EIGRP, EX - EIGRP external, O - OSPF, IA - OSPF in ter area N1 - OSPF NSSA external type 1, N2 - OSPF NSSA externa 1 type 2 E1 - OSPF external type 1, E2 - OSPF external type 2 i - IS-IS, su - IS-IS summary, L1 - IS-IS level-1, L2 - IS-IS level-2 ia - IS-IS inter area, * - candidate default, U - peruser static route o - ODR, P - periodic downloaded static route, H - NHR P, 1 - LISP a - application route + - replicated route, % - next hop override, p - overr ides from PfR Gateway of last resort is not set 10.0.0.0/32 is subnetted, 3 subnets 10.1.1.1 [1/0] via 172.20.2.1 S 10.2.2.2 [200/0] via 10.1.1.1, 00:00:19 В 10.3.3.3 is directly connected, Loopback0 C 172.16.0.0/22 is subnetted, 1 subnets 172.16.100.0 [200/0] via 10.1.1.1, 00:00:02 В 172.20.0.0/16 is variably subnetted, 3 subnets, 2 masks 172.20.1.0/24 [200/0] via 10.1.1.1, 00:00:19 В 172.20.2.0/24 is directly connected, Ethernet0/1 C 172.20.2.3/32 is directly connected, Ethernet0/1 \mathbf{L} R3#

QUESTION 4



What is the characteristic of enabling segment routing for IGPs?

- A. Segment routing must first be enabled under the routing process and then globally.
- B. Segment routing must first be enabled globally and then under the routing process.
- C. Segment routing must be enabled only globally.
- D. Segment routing must be enabled only under the routing process.

Correct Answer: B

QUESTION 5

DRAG DROP

Drag and drop the features about multicast from the left onto the multicast protocols on the right. Not all options ate used.

Select and Place:



Its mroute entry is (*,G) in most environments.

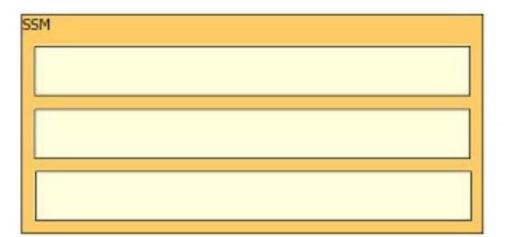
Its mroute entry is (S,G).

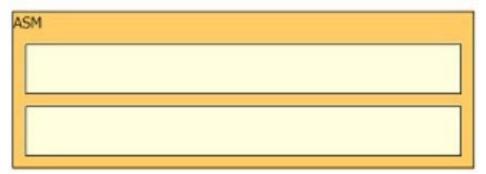
The receiver becomes aware of the sender only when it receives a message.

The receiver specifies the multicast addresses from which it wants to receive traffic.

It uses IGMPv3.

It uses IGMPv2.





Correct Answer:



The receiver becomes aware of the sender only when it receives a message.

SSM

Its mroute entry is (S,G).

It uses IGMPv3.

The receiver specifies the multicast addresses from which it wants to receive traffic.

ASM

Its mroute entry is (*,G) in most environments.

It uses IGMPv2.



Refer to the exhibit.

ip route 0.0.0.0 0.0.0.0 192.168.0.1 router isis redistribute static

An administrator is troubleshooting Internet access issues on a customer\\'s network. After applying this ISIS configuration to R1, the administrator notices that it fails to redistribute the default route into IS-IS. After checking the connectivity between the ISIS router and the ISP router the engineer confirmed there is Layer 3 connectivity between them. Which action should be taken to correct the problem?

A. Configure R1 as a Layer 1 router

- B. Add the default-information originate command to the configuration
- C. onfigure the default route under any routing protocol other than IS-IS
- D. Associate the default route with a VRF

Correct Answer: B

QUESTION 7

Refer to the exhibit.

RP/0/0/CPUO:iosxr# show run segment-routing
segment-routing global-block 18000 24999 !
RP/0/0/CPUO:iosxr#

A network engineer implemented this segment routing configuration. Which statement about the output is true?

A. This range conflicts with the segment routing local block range.

B. The device must be reloaded for these ranges to be allocated and used.



- C. The default segment routing global block range is being used on this device.
- D. A nondefault segment routing global block range is being used on this device.

Correct Answer: D

Reference: https://www.cisco.com/c/en/us/td/docs/routers/asr920/configuration/guide/segment-routing/segment-routing-book/seg-routing-global-block.html

QUESTION 8

You have configured routing policies on a Cisco IOS XR device with routing policy language. Which two statements about the routing policies are true? (Choose two.)

A. The routing policies affect BGP-related routes only.

B. If you make edits to an existing routing policy without pasting the full policy into the CLI, the previous policy is overwritten.

C. You can change an existing routing policy by editing individual statements.

D. The routing policies are implemented in a sequential manner.

E. The routing policies are implemented using route maps.

Correct Answer: CD

QUESTION 9

An engineer warns to map a multicast IP address to a multicast MAC How many bits are used to make the conversion?

- A. high-order 24 bits
- B. higher-order 23 bits
- C. low order 23 bits
- D. lower-order 24 bits
- Correct Answer: C

QUESTION 10

Which command is used to enable BIDIR-PIM under global configuration mode for Cisco IOS XE Sofware?

- A. ip pim bidir-enable
- B. ipv4 pim bidir-enable



- C. ip multicast-routing
- D. ip pim bidir

Correct Answer: A

Reference: https://www.cisco.com/c/en/us/td/docs/ios-xml/ios/ipmulti_pim/configuration/xe-3s/imc-pim-xe-3s-book/imc_basic_cfg.html

QUESTION 11

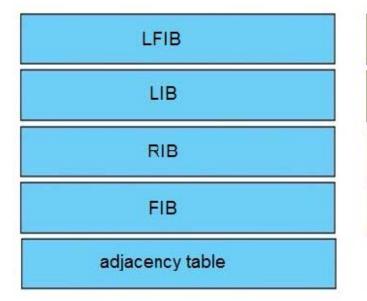
DRAG DROP

An engineer is troubleshooting end-to-end customer traffic across an MPLS VPN service provider network.

Which tasks should the engineer use to solve the routing issues?

Drag and drop the table types from the left onto the most useful troubleshooting tasks/router types on the right. (Not all options are used.)

Select and Place:



on the CE router to check for routing errors

on the P router to see LDP functionality

on PE and P router to verify expected forwarding

on VRF of the PE-CE connection

Correct Answer:



	RIB
	LIB
	LFIB
FIB	adjacency table

For which reason can two BGP peers fail to establish a neighbor relationship?

- A. Their BGP send-community strings are misconfigured
- B. Their BGP timers are mismatched
- C. Their remote-as numbers are misconfigured
- D. They are both activated under an IPv4 address family

Correct Answer: C

QUESTION 13

What is used by SR-TE to steer traffic through the network?

- A. shortest path calculated by IGP
- B. dynamic rules
- C. path policy
- D. explicit maps
- Correct Answer: C

Reference: https://www.cisco.com/c/en/us/td/docs/routers/asr9000/software/segment-routing/configuration/guide/b-seg-routing-cg-asr9k/b-seg-routing-cg-asr9k_chapter_0100.html



Which two methods represent IPv6 tunneling implementations? (Choose two.)

- A. IPv6 over GRE tunneling
- B. manually configured tunnels
- C. automatic tunnels
- D. 6to4 tunneling
- E. IPv6 over an IPv4 tunnel over MPLS

Correct Answer: BC

QUESTION 15

DRAG DROP

Drag and drop the attributes for the BGP route selection on the left into the correct order on the right. Not all options are used.

Select and Place:



lowest router ID	Step 1
highest router ID	Step 2
lowest local preference	Step 3
if both paths are external, prefer the newest path	Step 4
highest local preference	Step 5
highest weight	Step 6
eBGP over iBGP paths	
if both paths are external, prefer the oldest path	
lowest MED	

Correct Answer:



	highest weight
highest router ID	highest local preference
lowest local preference	lowest MED
	eBGP over iBGP paths
	if both paths are external, prefer the newest path
	lowest router ID
if both paths are external, prefer the oldest path	

Reference: https://www.cisco.com/c/en/us/support/docs/ip/border-gateway-protocol-bgp/13753-25.html

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