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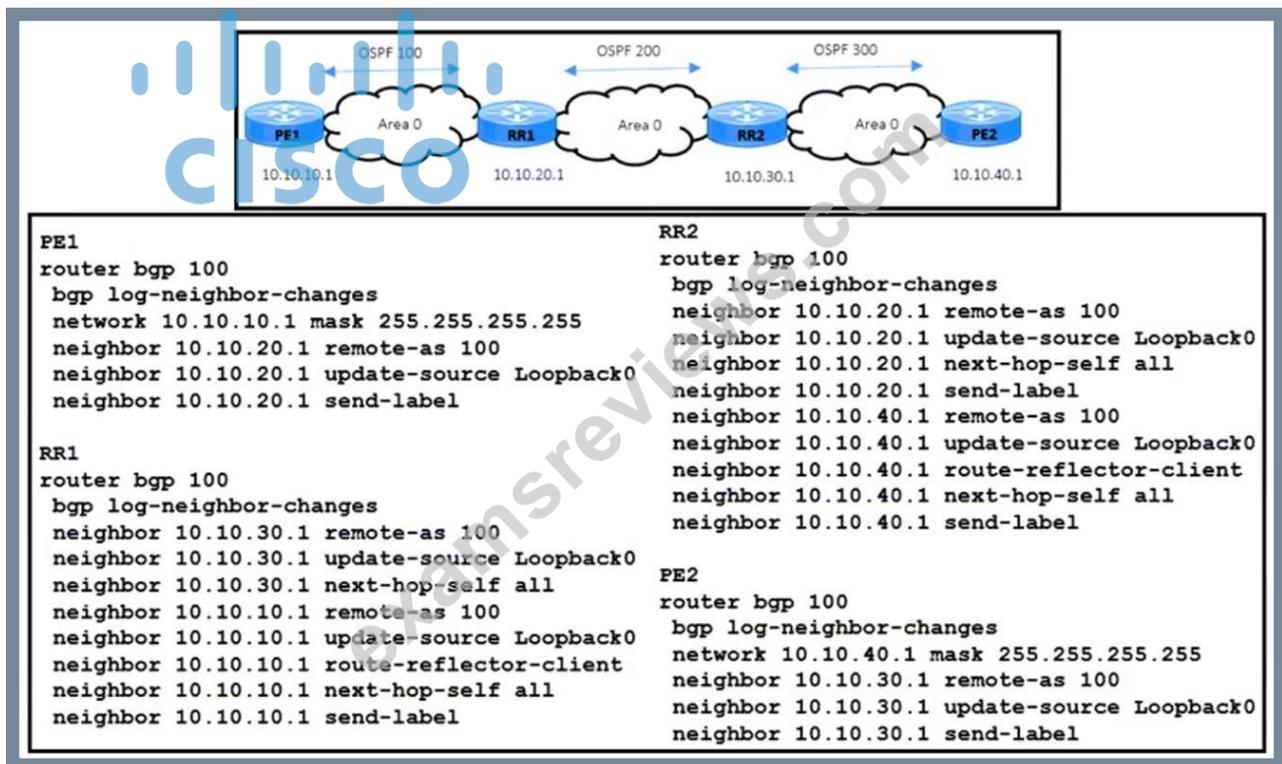
Cisco Implementing Cisco Service Provider Advanced Routing Solutions Sample Questions (Q43-Q48):

NEW QUESTION # 43
Refer to the exhibit. A network engineer is investigating a report of packet drops in an application running on a server connected to PE2. The engineer determined that:
- The OSPF adjacency in area 0 is up, and it is learning the loopback
addresses of all routers in area 0.
- Traffic from users connected to PE1 to the application is also
passing normally.
- Packets from PE2 back to PE1 are being dropped.
Which action resolves the issue?

- A. RR2(config)# router bgp 100
  RR2(config-router)# no neighbor 10.10.20.1 send-label
- B. RR2(config)# router bgp 100
  RR2(config-router)# redistribute ospf 100
- C. RR1(config)# router bgp 100
  RR1(config-router)# neighbor 10.10.30.1 send-label
- D. RR1(config)# router bgp 100
  RR1(config-router)# redistribute ospf 100

Answer: C

NEW QUESTION # 44
Refer to the exhibit.

Refer to the exhibit. An engineer is troubleshooting an issue with traffic steering using the color-only automated steering mechanism. BGP is failing to automatically steer traffic into an SR policy with the given color of a route, regardless of the next hop. The layer 2 configuration is correct, and the physical connection between the devices is working normally. Which additional command sequence must the engineer add to correct the issue?

```
Cisco# configure
 Cisco(config)# segment-routing
 Cisco(config-sr)# traffic-eng
 Cisco(config-sr-te)# policy P1
 Cisco(config-sr-te-policy)# color 1 end-point

 Cisco(config)# segment-routing
 Cisco(config-sr)# traffic-eng
 Cisco(config-sr-te)# policy P1
 Cisco(config-sr-te-policy)# color 1 end ipv4 1.1.1.1
 Cisco(config-sr-te-policy)# autoroute include all

 Cisco(config)# segment-routing traffic-eng
 Cisco(config-sr-te)# policy P1
 Cisco(config-sr-te-policy)# color 1 end-point ipv4 1.1.1.1
 Cisco(config-sr-te-policy)# autoroute
 Cisco(config-sr-te-policy-autoroute)# include all

 Cisco(config)# segment-routing
 Cisco(config-sr)# traffic-eng
 Cisco(config-sr-te)# policy P1
 Cisco(config-sr-te-policy)# color 1 end-point ipv4 0.0.0.0
```

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

Answer: C

NEW QUESTION # 45
Refer to the exhibit.

```
R1
interface g0/0
    ip address 192.168.1.1 255.255.255.0
    ip router isis
router isis
    net 49.0022.1111.1111.1111.00
    area-password ciSCo

R2
interface g0/1
    ip address 192.168.1.2 255.255.255.0
    ip router isis
router isis
    net 49.0022.1111.1111.1111.00
    area-password ciSco
```
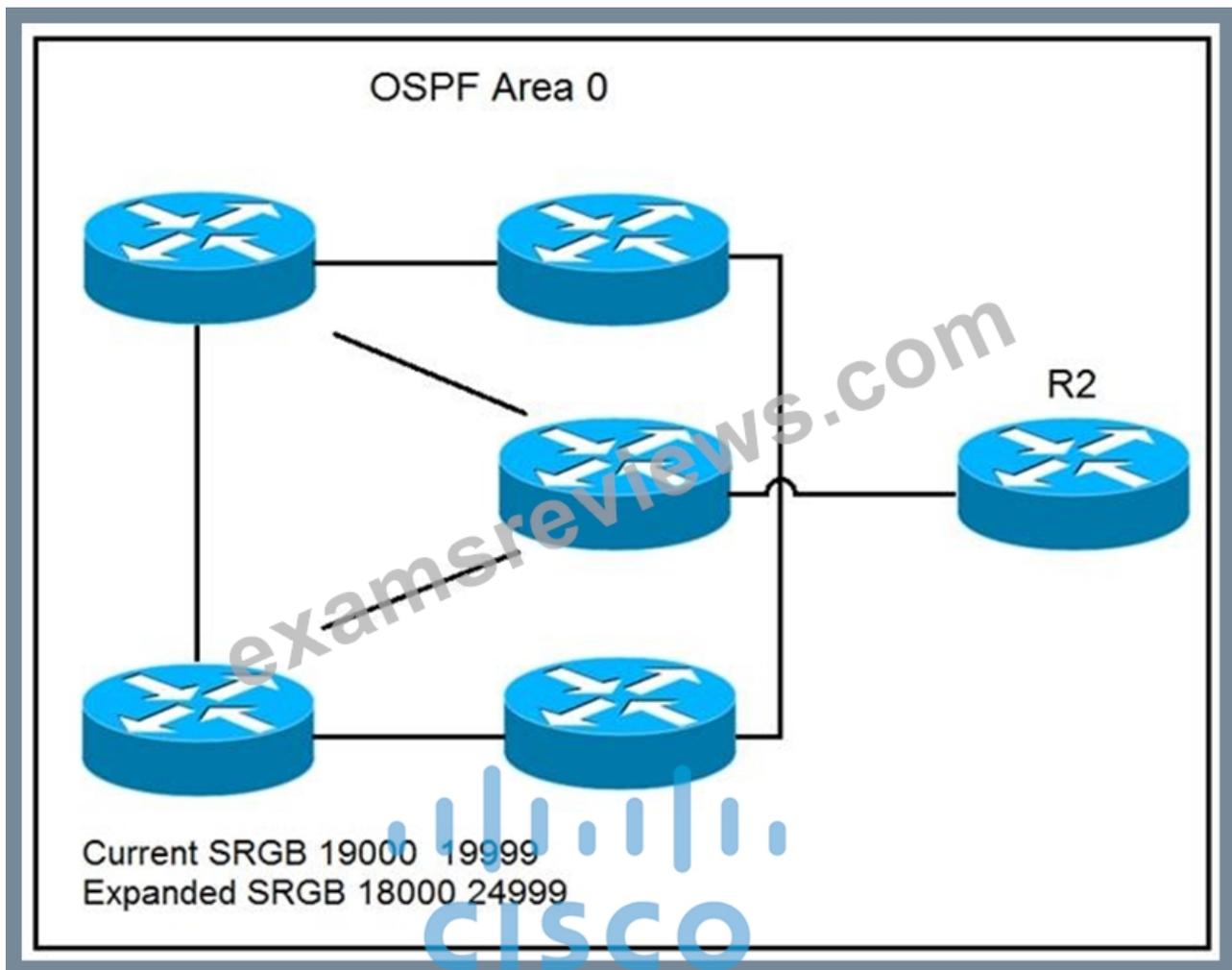
After you applied these configurations to routers R1 and R2, the two devices could not form a neighbor relationship. Which reason for the problem is the most likely?

- A. The two routers have different IS-types.
- B. The two routers cannot authenticate with one another.
- C. The two routers have the same area ID.
- D. The two routers have the same network ID.

Answer: B

NEW QUESTION # 46
Refer to the exhibit.

OSPF Area 0

R2

Current SRGB 19000 19999
Expanded SRGB 18000 24999

A network operator wants to expand the segment routing global block in upcoming maintenance. The operator must ensure that the changes to the segment routing global block have no adverse impacts on the prefix-sid associated with the loopback0 interface used within the OSPF domain.

Which command can the operator use to enforce R2 to have a strict prefix-sid assignment to loopback0?

```
A.  router ospf 1
      area 0
        interface Loopback0
          prefix-sid index 19002 explicit-null
B.  router ospf 1
      area 0
        interface Loopback0
          prefix-sid absolute 13002
C.  router ospf 1
      area 0
        interface Loopback0
          prefix-sid absolute 19002
D.  router ospf 1
      area 0
        interface Loopback0
          prefix-sid index 19002
```

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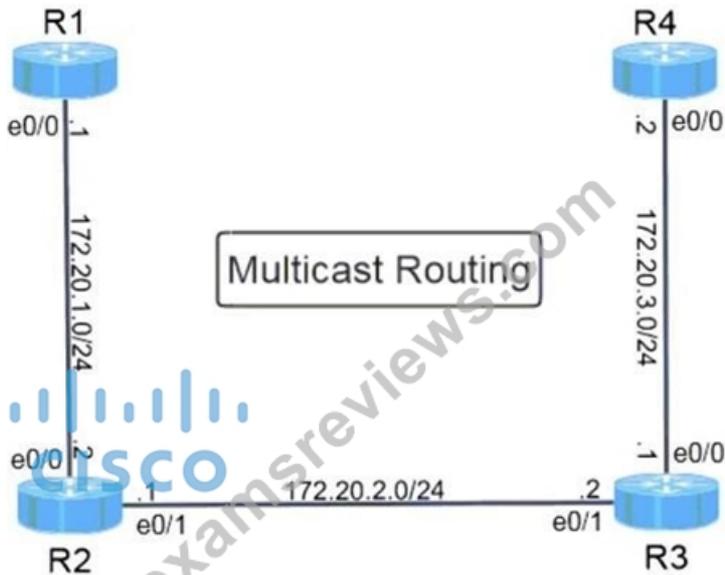- D. Option C

Answer: D

NEW QUESTION # 47
SIMULATION
Guidelines
This is a lab item in which tasks will be performed on virtual devices.
- Refer to the Tasks tab to view the tasks for this lab item.
- Refer to the Topology tab to access the device console(s) and perform the tasks.
- Console access is available for all required devices by clicking the device icon or using the tab(s) above the console window.
- All necessary preconfigurations have been applied.
- Do not change the enable password or hostname for any device.
- Save your configurations to NVRAM before moving to the next item.
- Click Next at the bottom of the screen to submit this lab and move to the next question.
- When Next is clicked, the lab closes and cannot be reopened.
Topology

Device	Interface	IP Address
R2	Loopback 0	2.2.2.2/32
R3	Loopback 0	3.3.3.3/32
R4	Loopback 0	4.4.4.4/32

Tasks

R2 and R3 are routers that perform multicast operations. Candidates are required to perform the below configuration and verification tasks on R1 and R2.

1. Configure R2 and R3 to be able to process, route and forward multicast packets.
2. Configure R3 as the root of the shared tree for the any source multicast domain.
3. Configure R1 as the receiver for group 239.100.100.1 and ensure a ping to that group from R4 is successful.

Initial configuration with IP addressing has been completed. The candidate must not make any changes to the configurations except to fulfill the tasks listed above. Use non-proprietary protocol where needed. Only use the provided logical interface for the applicable task.

Answer:

Explanation:

1. Enable Multicast Routing on R2 and R3

To process, route, and forward multicast packets, multicast routing must be enabled globally, and PIM (Protocol Independent Multicast) must be configured on the appropriate interfaces.

Commands on R2 and R3:

R2(config)# ip multicast-routing
R2(config)# interface e0/0
R2(config-if)# ip pim sparse-mode
R2(config)# interface e0/1
R2(config-if)# ip pim sparse-mode
R2(config)# interface loopback 0
R2(config-if)# ip pim sparse-mode
R3(config)# ip multicast-routing
R3(config)# interface e0/0
R3(config-if)# ip pim sparse-mode
R3(config)# interface e0/1
R3(config-if)# ip pim sparse-mode
R3(config)# interface loopback 0
R3(config-if)# ip pim sparse-mode

ip multicast-routing enables multicast routing globally.

ip pim sparse-mode enables PIM in Sparse Mode on interfaces.

2. Configure R3 as the Root of the Shared Tree (Rendezvous Point - RP)
To configure R3 as the RP for the multicast domain, use Auto-RP or Static RP. Here, we configure Static RP for group 239.100.100.1.
Commands on R2 and R3:
R2(config)# ip pim rp-address 3.3.3.3
R3(config)# ip pim rp-address 3.3.3.3
ip pim rp-address <RP-IP>: Configures R3's Loopback0 IP (3.3.3.3) as the RP for the multicast domain.
3. Configure R1 as the Receiver for Group 239.100.100.1
To configure R1 as a multicast receiver, enable IGMP (Internet Group Management Protocol) on R1's e0/0 interface.
Commands on R1:
R1(config)# interface e0/0
R1(config-if)# ip igmp join-group 239.100.100.1
ip igmp join-group <group>: Forces R1 to join the multicast group 239.100.100.1.
Verification: Ensure Ping to Group 239.100.100.1 is Successful from R4
To verify multicast group reachability:
1. Send Multicast Traffic from R4:
R4# ping 239.100.100.1 repeat 5
2. Verify Multicast Routing Table on R2 and R3:
R2# show ip mroute
R3# show ip mroute
3. Verify IGMP Group Membership on R1:
R1# show ip igmp groups
Complete Summary of Configurations:
1. R2 Configuration:
ip multicast-routing
interface e0/0
ip pim sparse-mode
interface e0/1
ip pim sparse-mode
interface loopback 0
ip pim sparse-mode
ip pim rp-address 3.3.3.3
2. R3 Configuration:
ip multicast-routing
interface e0/0
ip pim sparse-mode
interface e0/1
ip pim sparse-mode
interface loopback 0
ip pim sparse-mode
ip pim rp-address 3.3.3.3
3. R1 Configuration:
interface e0/0
ip igmp join-group 239.100.100.1
Verification Checklist:
1. R3 is the RP: Use show ip pim rp mapping..
2. R1 is a Group Member: Verify with show ip igmp groups.
3. Multicast Traffic Flows: Use ping 239.100.100.1 from R4 and verify success.

NEW QUESTION # 48
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