



300-510^{Q&As}

Implementing Cisco Service Provider Advanced Routing Solutions
(SPRI)

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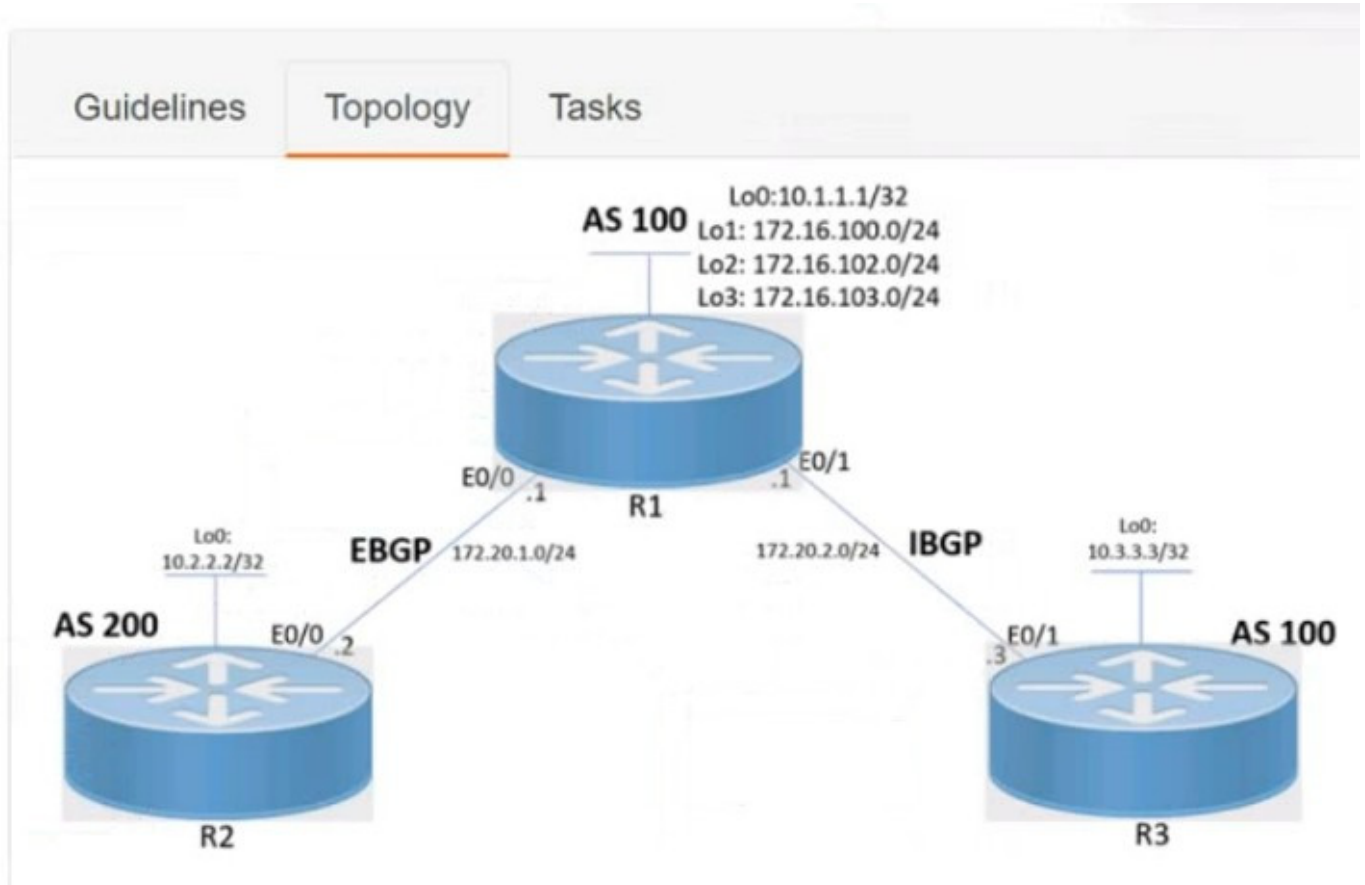
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QUESTION 1

CORRECT TEXT





Guidelines

Topology

Tasks

Troubleshoot and configure BGP according to the topology to achieve these goals:

1. R1 and R3 establishes IBGP connectivity using Loopback addresses. The updates should come from Loopback0.
2. R3 should be able to ping loopback0 interface of R2. These changes must be accomplished through BGP.
3. R1 advertises only the summary route of 172.16.100.0/22 to R2 and R3.

Submit feedback about this item.

A. Check the answer in the explanation

B. Placeholder

C. Placeholder

D. Placeholder

Correct 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 - mobile, 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
       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 - per-user static route
       o - ODR, P - periodic downloaded static route, H - NHRP, l - LISP
       a - application route
       + - replicated route, % - next hop override, p - overrides from PfR

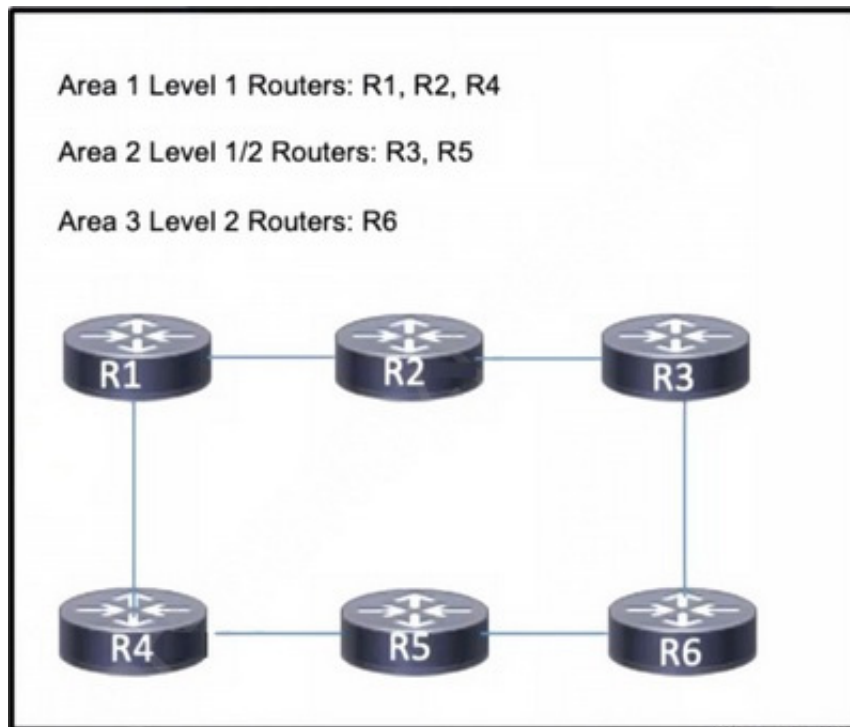
Gateway of last resort is not set

10.0.0.0/32 is subnetted, 3 subnets
S    10.1.1.1 [1/0] via 172.20.2.1
B    10.2.2.2 [200/0] via 10.1.1.1, 00:00:19
C    10.3.3.3 is directly connected, Loopback0
172.16.0.0/22 is subnetted, 1 subnets
B    172.16.100.0 [200/0] via 10.1.1.1, 00:00:02
172.20.0.0/16 is variably subnetted, 3 subnets, 2 masks
B    172.20.1.0/24 [200/0] via 10.1.1.1, 00:00:19
C    172.20.2.0/24 is directly connected, Ethernet0/1
L    172.20.2.3/32 is directly connected, Ethernet0/1
R3#
```

QUESTION 2



Refer to the exhibit.



An engineering team implemented IS-IS on the network, with several different areas. Recently, router R6 in area 3 has been experiencing excessive CPU usage. To reduce the load, a network engineer implemented route summarization on R2. However, R6 is still receiving the full routes from all routers. Which action must the engineer take to resolve the excessive CPU usage?

- A. Configure all routers as Level 1/2 routers so that route summarization functions throughout the network.
- B. Configure routers R3 and R5 to send summary routes to R6.
- C. Configure the Level 2 router R6 to manage summarization for the network.
- D. Configure router R1 to send only the default route to R2 and R4.

Correct Answer: B

QUESTION 3

For which reason can two devices fail to establish an OSPF neighbor relationship?

- A. The two devices have different process IDs
- B. The two devices have different network types
- C. The two devices have different router IDs
- D. The two devices have the same area ID

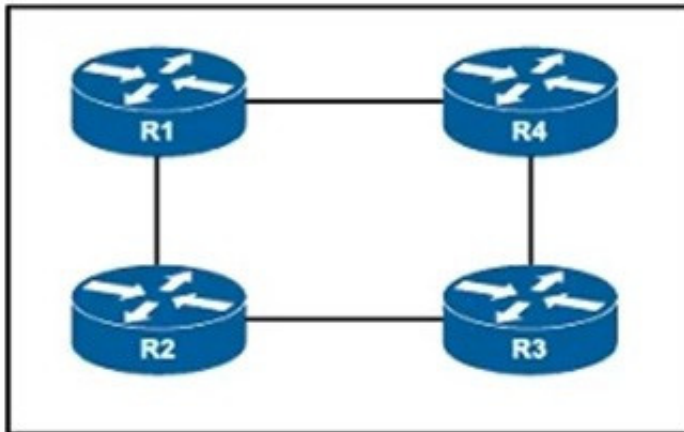


Correct Answer: B

Reference: <https://www.cisco.com/c/en/us/support/docs/ip/open-shortest-path-first-ospf/13699-29.html>

QUESTION 4

Refer to the exhibit.



All routers on this network have been configured with PIM-SM, and R1 is the rendezvous point. However, when asymmetric routing is implemented to modify link usage, the network begins to drop certain multicast traffic. Which action corrects the problem?

- A. Place the routes affected by asymmetric routing in a VRF
- B. Remove the asymmetric routing and use spanning tree to manage link usage
- C. Add a static mroute for routes that are failing
- D. Configure the routers to use PIM-DM instead of PIM-SM

Correct Answer: C

QUESTION 5

DRAG DROP

Drag and drop the features from the left into the order of operations for SRv6 SRH field creation and forwarding on the right.

Select and Place:



Answer Area

segments left
last entry
packet is forwarded
next header
routing type
segment list

first
second
third
fourth
fifth
sixth

Correct Answer:

Answer Area

next header
routing type
segments left
last entry
segment list
packet is forwarded

First - next header Second - routing type Third - segments left Fourth - last entry Fifth - segment list sixth - packet is forwarded

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