



300-510^{Q&As}

Implementing Cisco Service Provider Advanced Routing Solutions
(SPRI)

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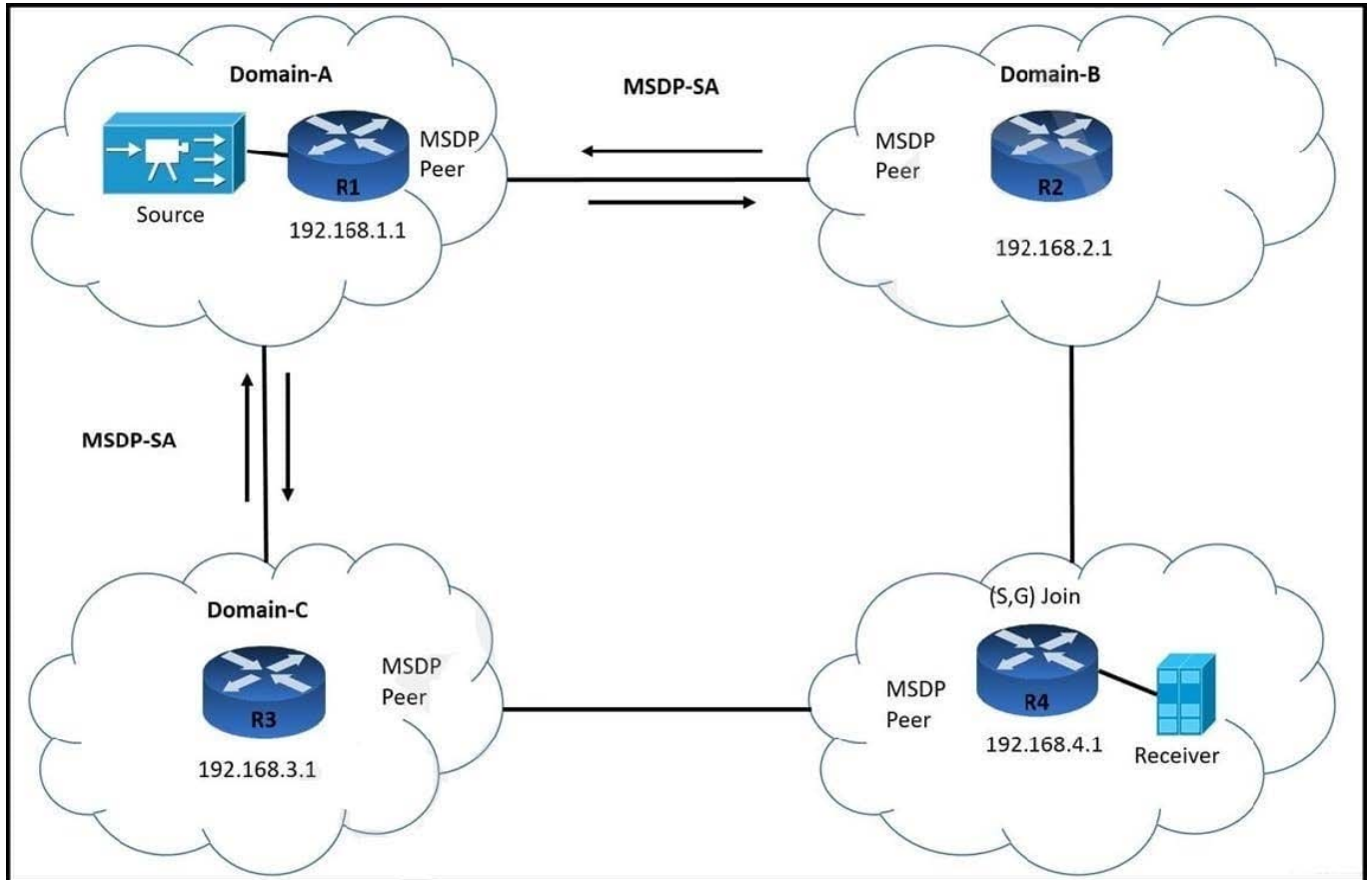
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**QUESTION 1**

Refer to the exhibit A. R1# ip msdp sa-filter in 192.168.3.1



Router R1 is configured to advertise outgoing SA messages to routers R2 and R3, but to receive incoming SA messages only from R2. Which additional configuration must an engineer apply to router R1 so it filters all MSDP SA messages from Domain-C?

- B. R3# ip msdp sa-filter out 192.168.3.1
- C. R3# ip msdp password peer 192.168.1.1
- D. R1# ip msdp password peer 192.168.3.1

Correct Answer: A

Reference: <https://www.cisco.com/c/en/us/support/docs/ip/ip-multicast/13717-49.html>

QUESTION 2

Which output from the show isis interface command helps an engineer troubleshoot an IS-IS adjacency problem on a Cisco IOS-XR platform?

- A. metric



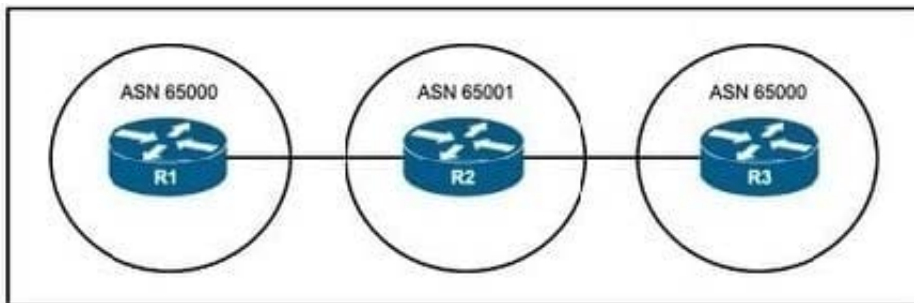
- B. priority
- C. circuit type
- D. hello interval

Correct Answer: D

RP/0/0/CPU0:XR1#show isis interface | i Cir Tue Jun 29 17:56:42.369 UTC Circuit Type: level-1-2 Circuit Number: 0
Circuit Type: level-1 Circuit Number: 1 RP/0/0/CPU0:XR1#show isis interface | i Hel Tue Jun 29 17:56:46.609 UTC

QUESTION 3

Refer to the exhibit.



An engineer is troubleshooting an issue with this network and notices that prefixes from R3 are missing on the R1 routing table. Due to repeated ASN when the 10.0.0.0/8 prefix from R3 arrives at R1, BGP automatically rejects it. There is no prefix-list on R1 which blocks the traffic from R3. What should the engineer do to fix the problem so that BGP allows that prefix on R1?

- A. Configure R2 as a route reflector client of R1.
- B. Configure the allowas-in command on R1.
- C. Configure the next-hop-self command on R2.
- D. Configure identical confederation ASNs on R1 and R2.

Correct Answer: B

QUESTION 4

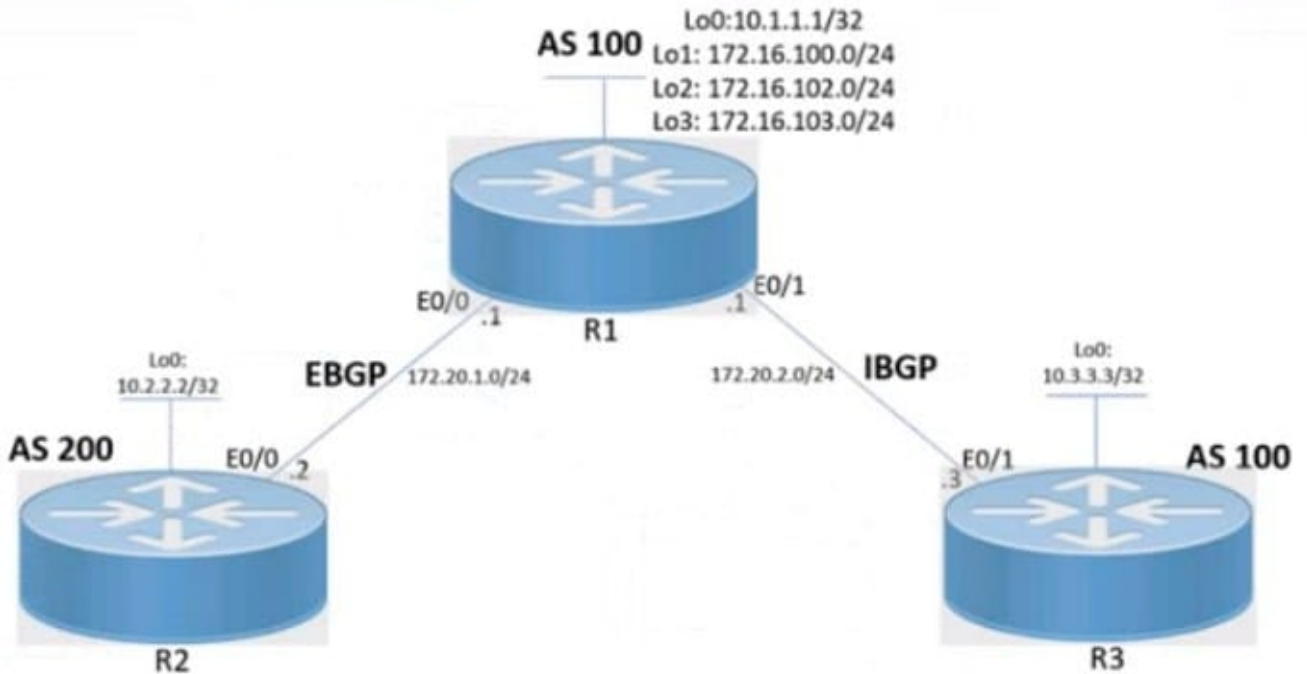
CORRECT TEXT



Guidelines

Topology

Tasks





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

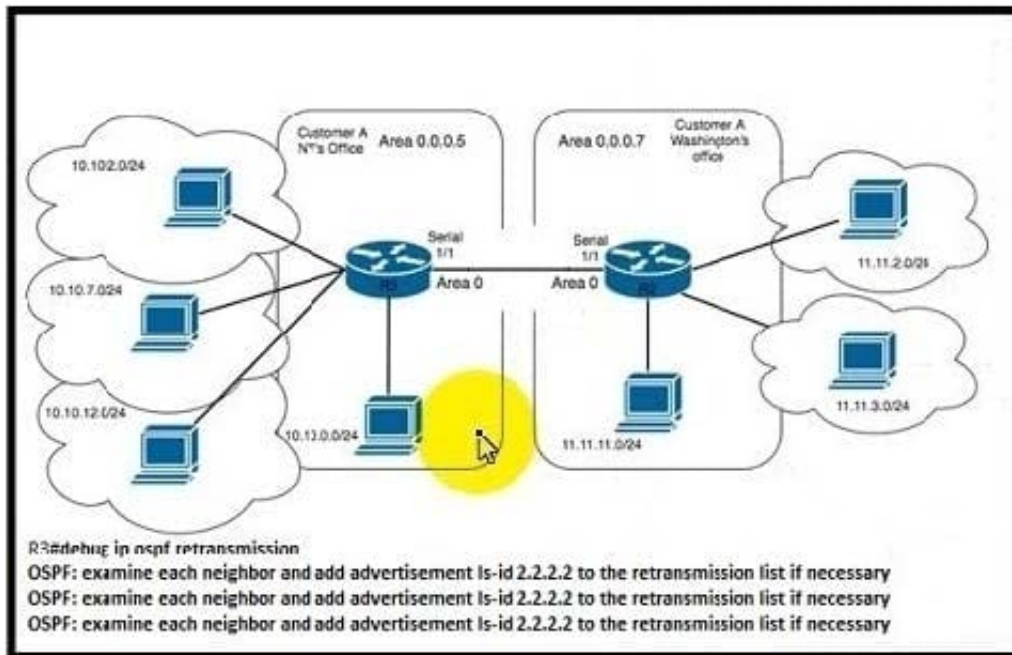
Gateway of last resort is not set

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 5



Refer to the exhibit.



Customer A is a small media company with two offices connected by a 512 Kbps line. Their NY office is connected to several external partners by static routes on router R3.

VoIP services use VoIP codec G729 Users reported poor voice quality and slow data transfer between the offices A network engineer configured ip tcp header- compression iphc-format on R2 and R3 routers

Which additional action must the engineer take to fix the issue?

- A. Configure the ip ospf l area O command under Serial 1/1 interfaces on R2 and R3 to avoid routing loops
- B. Change the OSPF router ID on either router so that the router IDs are unique.
- C. Configure the summary-address 10.10.0.0 255.255.240.0 command on R3 to optimize OSPF communication
- D. Configure the BGP routing protocol between R2 and R3 to control route propagation.

Correct Answer: C

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