300-510^{Q&As}

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Implementing Cisco Service Provider Advanced Routing Solutions (SPRI)

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QUESTION 1

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 cannot authenticate with one another.

B. The two routers have the same area ID.

C. The two routers have the same network ID.

D. The two routers have different IS-types.

Correct Answer: C

For those asking about the password, area authentication doesn\'t prevent neighboring to come up because it is carried only in LSP, CSNP and PSNP messages and not in IIH messages. https://www.cisco.com/c/en/us/support/docs/ip/integrated- intermediate-system-to-intermediate-system-is-is/13792-isis-authent.html

QUESTION 2

Which protocol can be used to secure multicast in a group multicast solution where group key management is needed for secure key exchange?

A. DOI

B. ISAKMP

C. GDOI

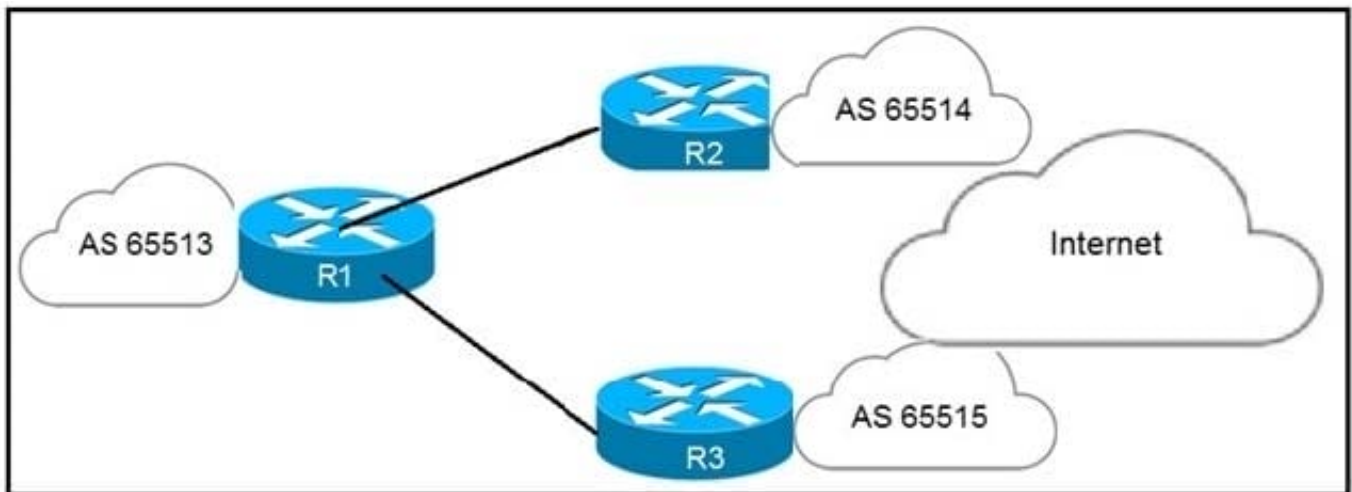D. IPsec

Correct Answer: C

QUESTION 3

Refer to the exhibit.

An engineer has successfully fixed BGP peering issue. R1 has an established eBGP peering with R2 and R3. Which mechanism should the engineer apply in order to steer the traffic correctly?

A. The MED attribute can be applied on R2 to influence R1 to use it as the primary path.

B. The local preference attribute can be applied on R3 to influence AS 65513 to use AS 65515 as the secondary path.

C. The weight attribute can be applied on R2 to influence AS 65513 to use AS 65515 as the primary path.

D. The IGP metric can be manipulated on R1 to allow traffic to be load balanced between R2 and R3.

Correct Answer: D

Some level of load balancing is achieved by default as BGP prefers shortest AS_PATH for certain prefix (Cisco BGP path selection algorithm - rule 4) . If 1-7 rules gives no preference for certain prefix then with rule 8. Prefer lowest IGP metric to BGP next hop we can force traffic to R2 or R3 influencing load distribution.

QUESTION 4

What are two features of dual-stack? (Choose two.)

A. It is implemented without excessive processing power.

B. It supports IPv4 and IPv6 traffic on the same infrastructure.

C. It allows an engineer to stack multiple Layer 2 switches to serve as a single switching unit.

D. It requires tunneling IPv6 traffic over an IPv4 infrastructure.

E. It securely routes and tunnels traffic between separate sites over the Internet.

Correct Answer: AB

QUESTION 5

Which difference must an engineer consider when choosing whether to implement OSPF or IS-IS as the routing protocol on the network?

A. The OSPF DR election process is deterministic, and the IS-IS DS election process is not deterministic.

B. To support fast convergence, OSPF uses the LSA arrival timer and IS-IS uses the PRC-interval timer.

C. IS-IS supports ordinary, stub, totally-stub, and NSSA areas, but OSPF supports only stub areas.

D. IS-IS links are associated with either a Level 1 area or a Level 2 area at one time, but OSPF links are associated with multiple areas at one time.

Correct Answer: B

Reference: https://www.cisco.com/c/en/us/td/docs/ios-xml/ios/iproute_isis/configuration/15-s/irs-15-s-book/irs-fscnt.html