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Implementing Cisco Service Provider Advanced Routing Solutions (SPRI)

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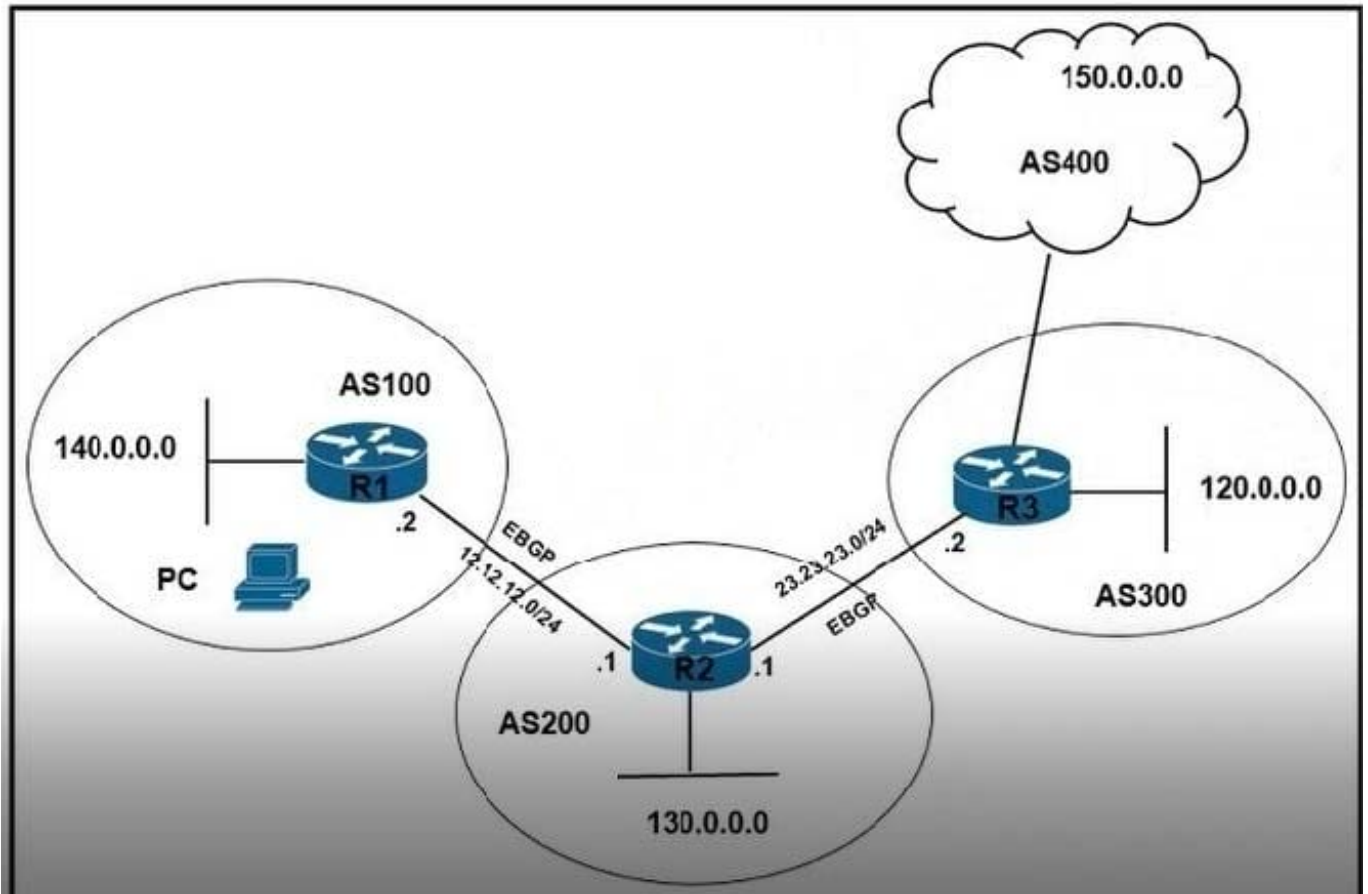
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QUESTION 1

Refer to the exhibit.

Excessive routes are flooding from network 150.0.0.0 into AS100. Internet traffic between AS400 and AS300 is working normally. No route controlling mechanism is applied on incoming and outgoing traffic Which configuration resolves the issue?

```
R2#router bgp 200
  neighbor 12.12.12.2 remote-as 100
  neighbor 23.23.23.2 remote-as 300
  neighbor 12.12.12.12 filter-list 1 out
  ip as-path access-list 1 deny ^400$
  ip as-path access-list 1 permit ."
```

```
R2#router bgp 200
  address-family ipv4 unicast
  neighbor 12.12.12.2 remote-as 100
  neighbor 12.12.12.2 activate
  neighbor 12.12.12.2 route-map PREPEND out
  exit-address-family
exit
route-map PREPEND permit 10
set as-path prepend 100 100
```

```
R2#router bgp 200
  neighbor 12.12.12.2  route-map FLOODING out
  ip as-path access-list 1 permit ^400_
  route-map FLOODING permit 10
    match as-path 1
    set metric 50000
```

```
R1#router bgp 100
  neighbor 12.12.12.1 remote-as 200
  neighbor 12.12.12.1 route-map SET-LOCAL-PREF in
  route-map SET-LOCAL-PREF permit 10
    match ip address 2
    set local-preference 700
  route-map SET-LOCAL-PREF permit 20
  access-list 2 permit 150.0.0.0 0.255.255.255
  access-list 2 deny any
```
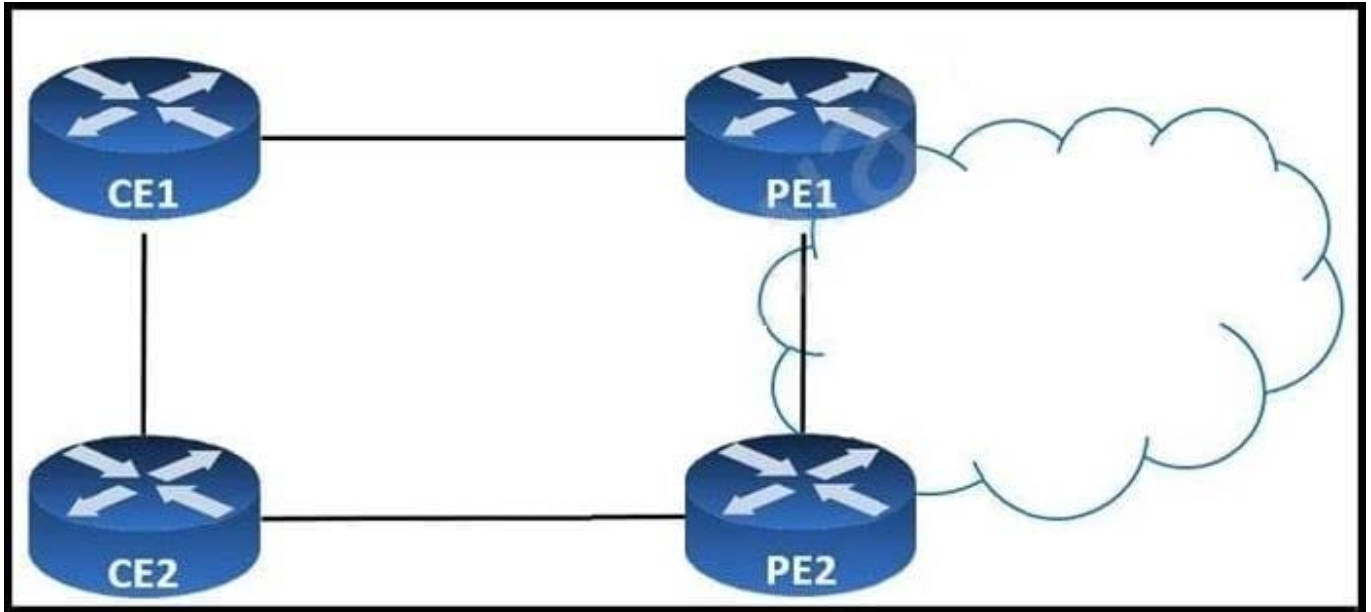
A. Option A

B. Option B

C. Option C

D. Option D

Correct Answer: A

QUESTION 2

Refer to the exhibit.

CE1 and CE2 are iBGP neighbors in AS 65516. All traffic that exits AS 65516 must use the link from CE1 to PE1. CE1 is advertising a higher local preference to CE2, but traffic from CE2 still prefers the PE2 link. Which action corrects the problem?
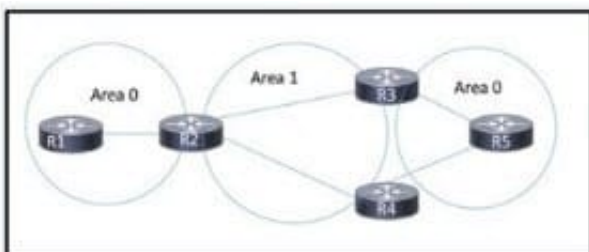
A. Add the lower local-preference value on PE2 towards CE2.

B. Configure CE1 to send routes to CE2 with a higher MED.

C. Configure CE1 to send routes to CE2 with a higher weight.

D. Add the next-hop self command to the CE1 neighbor statement for CE2.

Correct Answer: A

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

QUESTION 3

Refer to the exhibit.

A network engineer just replaced five routers on this OSPF network. When the routing protocol is brought up, R5 cannot reach routes that originate on R1.

The engineer verified that all connected links have established neighbor relationships. R5 reaches routes originating on R3 and R4.

Which action resolves the issue?

A. Configure an OSPF virtual link to bridge Area 0 on routers R3 and R4.

B. Configure automatic neighbor discovery on RI and R5.

C. Configure OSPF to have a contiguous Area O.

D. Configure each link to be point-to-point.

Correct Answer: A

QUESTION 4

Refer to the exhibit.


```
RP/0/0/CPU/0:P1#                          RP/0/0/CPU/0:PE3#
!                                          !
key chain BGP                             key chain BGP
key 1                                     key 1
key-string password cisco123             key-string password cisco123
cryptographic-algorithm HMAC-MD5         cryptographic-algorithm HMAC-MD5
!                                          !
router bgp 1                              router bgp 1
address-family ipv4 unicast              address-family ipv4 unicast
!                                          !
neighbor 192.168.13.3                    neighbor 192.168.13.1
   remote-as 1                              remote-as 1
   keychain BGP                             keychain BGP
   address-family ipv4 unicast              address-family ipv4 unicast
```

P1 and PE3 Cisco IOS XR routers are directly connected and have this configuration applied. The BGP session is not coming up.

Assume that there is no IP reachability problem and both routers can open tcp port 179 to each other. Which action fixes the issue?

A. Change HMAC-MD5 to HMAC-SHA1-20

B. Configure the send and accept lifetime under key 1

C. Change HMAC-MD5 to MD5

D. Change HMAC-MD5 to HMAC-SHA1-12

Correct Answer: B

QUESTION 5

Which feature is used in multicast routing to prevent loops?

A. STP

B. inverse ARP

C. RPF

D. split horizon

Correct Answer: C