Cisco

642-885 Exam

Deploying Cisco Service Provider Advanced Routing (SPADVOUTE)

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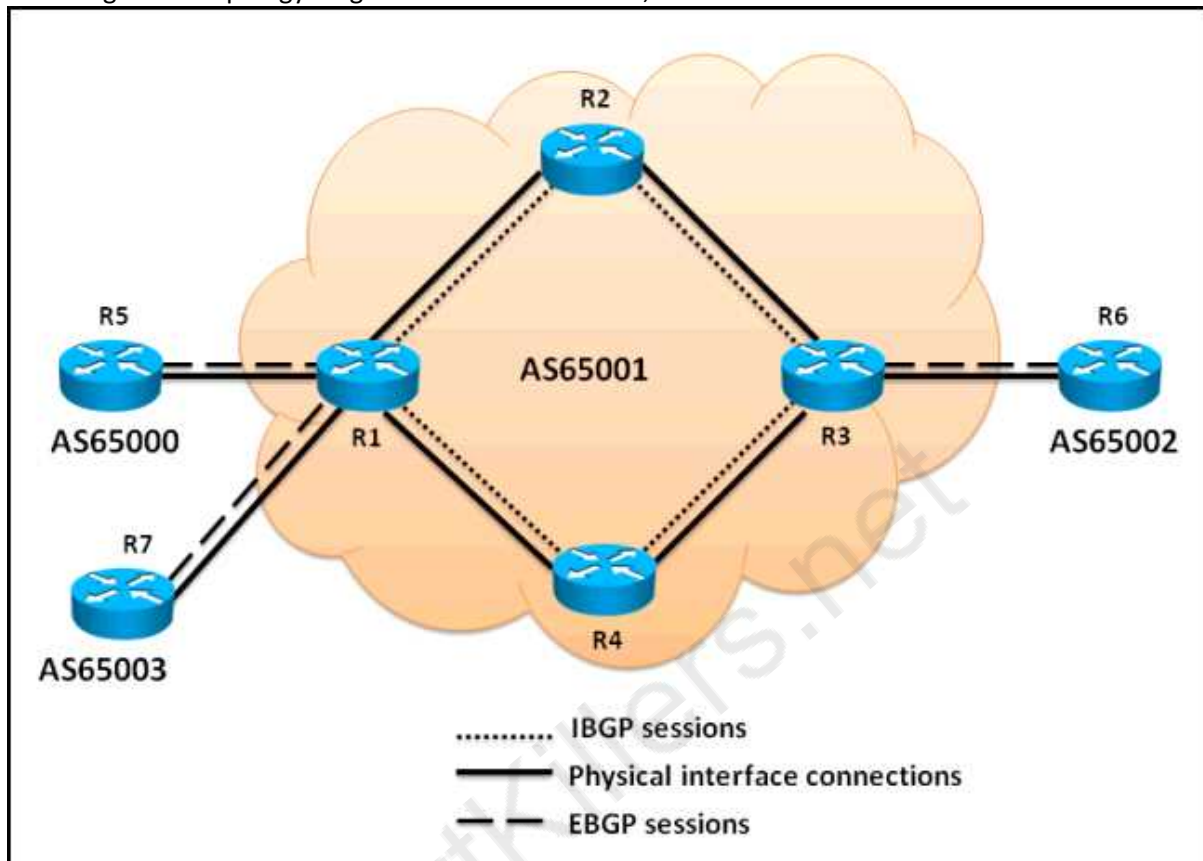## Question: 1

Referring to the topology diagram show in the exhibit,

Which three statements are correct regarding the BGP routing updates? (Choose three.)

A. The EBGP routing updates received by R1 from R5 will be propagated to the R2, R4, and R7 routers
B. The EBGP routing updates received by R3 from R6 will be propagated to the R2 and R4 routers
C. The EBGP routing updates received by R1 from R5 will be propagated to the R2 and R4 routers
D. The IBGP routing updates received by R3 from R2 will be propagated to the R6 router
E. The IBGP routing updates received by R2 from R1 will be propagated to the R3 router
F. The IBGP routing updates received by R1 from R4 will be propagated to the R5, R7, and R2 routers

Answer: A, B, D

Question: 2

When a BGP route reflector receives an IBGP update from a non-client IBGP peer, the route reflector will then forward the IBGP updates to which other router(s)?

A. To the other clients only
B. To the EBGP peers only
C. To the EBGP peers and other clients only

D. To the EBGP peers and other clients and non-clients

Answer: C

Question: 3

Which two BGP mechanisms are used to prevent routing loops when using a design with redundant route reflectors? (Choose two.)

A. Cluster-list
B. AS-Path
C. Originator ID
D. Community
E. Origin

Answer: A, C

Question: 4

Which two statements correctly describe the BGP ttl-security feature? (Choose two.)

A. This feature protects the BGP processes from CPU utilization-based attacks from EBGP neighbors which can be multiple hops away
B. This feature prevents IBGP sessions with non-directly connected IBGP neighbors
C. This feature will cause the EBGP updates from the router to be sent using a TTL of 1
D. This feature needs to be configured on each participating BGP router
E. This feature is used together with the ebgp-multihop command

Answer: A, D

Question: 5

When implementing source-based remote-triggered black hole filtering, which two configurations are required on the edge routers that are not the signaling router? (Choose two.)

A. A static route to a prefix that is not used in the network with a next hop set to the Null0 interface
B. A static route pointing to the IP address of the attacker
C. uRPF on all external facing interfaces at the edge routers
D. Redistribution into BGP of the static route that points to the IP address of the attacker
E. A route policy to set the redistributed static routes with the no-export BGP community
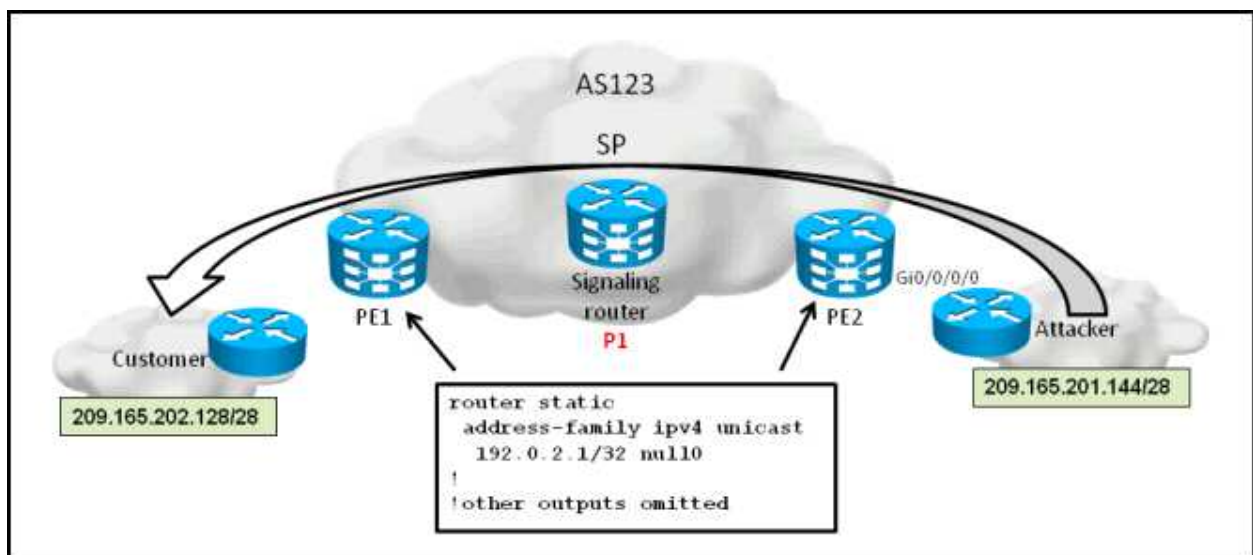
Answer: A, C

Question: 6

Refer to the topology diagram shown in the exhibit and the partial configurations shown below.

```
router static
  address-family ipv4 unicast
   192.0.2.1/32 null0
!
!other outputs omitted
```

Once the attack from 209.165.201.144/28 to 209.165.202.128/28 has been detected, which additional configurations are required on the P1 IOS-XR router to implement source-based remote-triggered black hole filtering?
!
router bgp 123
address-family ipv4 unicast
redistribute static route-policy test
!

A. router static
address-family ipv4 unicast
209.165.202.128/28 null0 tag 666
192.0.2.1/32 null0 tag 667
!
route-policy test
if tag is 666 then
set next-hop 192.0.2.1
endif
if tag is 667 then
set community (no-export)
endif
end-policy
!
B. router static
address-family ipv4 unicast
209.165.201.144/28 null0 tag 666
192.0.2.1/32 null0 tag 667
!
route-policy test
if tag is 666 then
set next-hop 192.0.2.1
endif
if tag is 667 then

set community (no-export)
endif
end-policy
!
C. router static
address-family ipv4 unicast
209.165.201.144/28 null0 tag 666
192.0.2.1/32 null0
!
route-policy test
if tag is 666 then
set next-hop 192.0.2.1
set community (no-export)
endif
end-policy
D. router static
address-family ipv4 unicast
209.165.202.128/28 null0 tag 666
192.0.2.1/32 null0
!
route-policy test
if tag is 666 then
set next-hop 192.0.2.1
set community (no-export)
endif
end-policy
!

Answer: C

Question: 7

In Cisco IOS-XR, the maximum-prefix command, to control the number of prefixes that can be installed from a BGP neighbor, is configured under which configuration mode?

A. RP/0/RSP0/CPU0:P2(config-bgp)#
B. RP/0/RSP0/CPU0:P2(config-bgp-af)#
C. RP/0/RSP0/CPU0:P2(config-bgp-nbr)#
D. RP/0/RSP0/CPU0:P2(config-bgp-nbr-af)#

Answer: D

Question: 8

In Cisco IOS-XR, the ttl-security command is configured under which configuration mode?

A. RP/0/RSP0/CPU0:P2(config)#

B. RP/0/RSP0/CPU0:P2(config-bgp)#
C. RP/0/RSP0/CPU0:P2(config-bgp-nbr)#
D. RP/0/RSP0/CPU0:P2(config-bgp-af)#
E. RP/0/RSP0/CPU0:P2(config-bgp-nbr-af)#

Answer: C

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