



Vendor: Cisco

Exam Code: 642-885

Exam Name: Deploying Cisco Service Provider Advanced Routing (SPADVOUTE)

Version: DEMO

QUESTION 1

Refer to the exhibit. Based on the output of two eBGP adjacent neighbors, which command can be used to set up the default BGP timers?

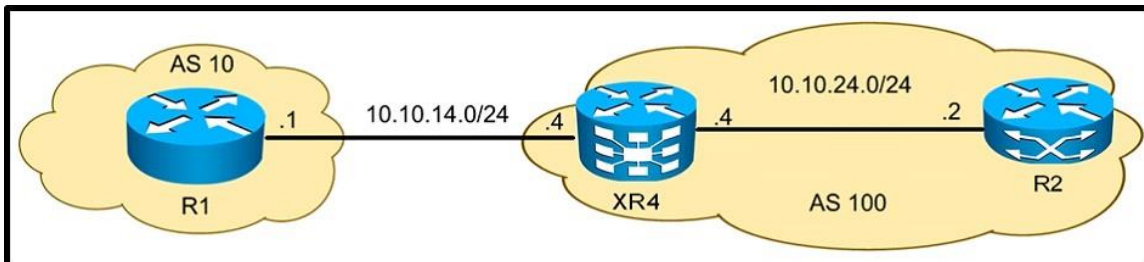
```
RP/0/0/CPU0:R1# sh ip bgp nei | i time
Thu Jun 26 17:55:20.919 UTC
  Hold time is 90, keepalive interval is 30 seconds
  Configured hold time: 180, keepalive: 60, min acceptable hold time: 3
  Minimum time between advertisement runs is 30 secs
!
RP/0/0/CPU0:R3# sh ip bgp nei | i time
Thu Jun 26 17:55:34.109 UTC
  Hold time is 90, keepalive interval is 30 seconds
  Configured hold time: 90, keepalive: 30, min acceptable hold time: 3
  Minimum time between advertisement runs is 30 secs
```

- A. RP/0/0/CPU0:R1(config-bgp)#timers bgp 60 30
- B. RP/0/0/CPU0:R2(config-bgp)#timers bgp 30 60
- C. RP/0/0/CPU0:R2(config-bgp-nbr)#timers bgp 180 60
- D. RP/0/0/CPU0:R2(config-bgp)#timers bgp 60 180
- E. RP/0/0/CPU0:R1(config-bgp)#timers bgp 60 180

Answer: D

QUESTION 2

Refer to the exhibit. XR4 must protect itself from a DOS attack against its BGP process from R1 by using the TTL security feature. Which configuration achieves this goal?

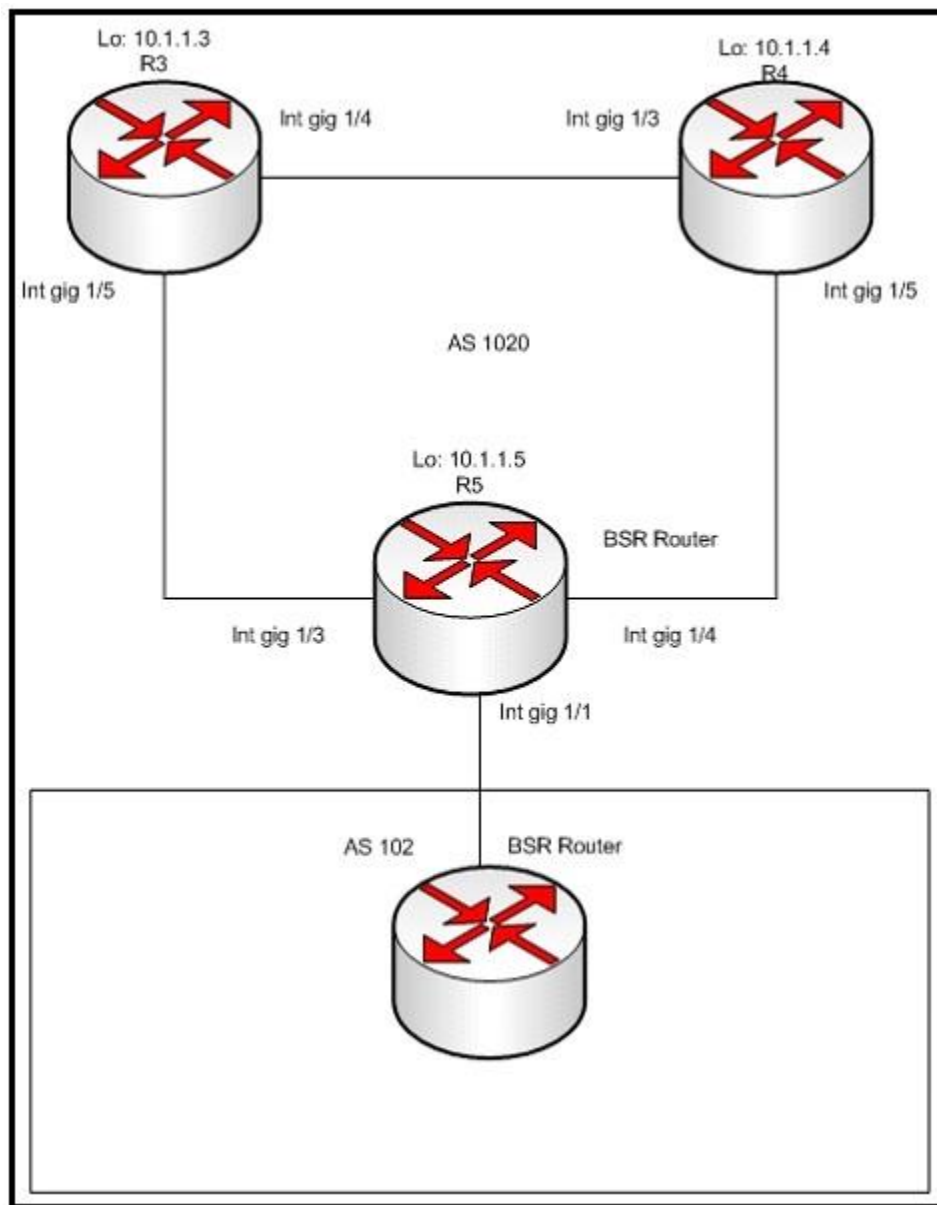


- A. router bgp 100
neighbor 10.10.14.1 ttl-security
- B. router bgp 100
neighbor 10.10.14.1 ttl-security hops 1
- C. router bgp 100
neighbor 10.10.14.1 ttl-security hops 254
- D. router bgp 100
neighbor 10.10.14.1 ttl-security hops 255

Answer: A

QUESTION 3

Refer to the exhibit. R5 is configured as the RP for the PIM-SM domain for AS 1020. If R3 and R4 are correctly configured, which Cisco IOS-XE configuration should be done on R5 to configure it as a PIMv3 BSR router?



- A. `ip pim send-rp-announce loopback 0 scope 16`
`int gi1/3 , gi 1/4`
`ip pim sparse-mode`
`int gi 1/1`
`ip pim bsr-border`
- B. `ip pim rp-candidate loopback 0`
`int gi1/3 , gi 1/4`
`ip pim sparse-mode`
`int gi 1/1`
`ip pim bsr-border`
- C. `ip pim rp-candidate loopback 0`
`int gi1/3 , gi 1/4`
`ip pim sparse-mode`
`ip pim bsr-border`

```
D. ip pim send-rp-announce loopback 0 scope 16
   int gil/3 , gi 1/4
   ip pim sparse-mode
   ip pim bsr-border
```

Answer: B

QUESTION 4

To which three IP multicast groups can a multicast MAC address "01-00-5E-4D-62-B1" listen? (Choose three.)

- A. 231.205.98.177
- B. 231.205.99.177
- C. 239.77.98.177
- D. 239.205.99.177
- E. 224.205.98.177
- F. 224.205.99.177

Answer: ACE

QUESTION 5

Each router (RTA, RTB, and RTC) has one iBGP adjacency with the route reflector router RTD. Router RTC has an iBGP route advertised by RTA, but the same route is missing from RTB. Thenetwork engineer verifies that route filtering does not deny the route advertisement. Which action corrects the problem?

- A. RTD(config-router)#neighbor 192.168.1.1 route-reflector-client
RTD(config-router)#neighbor 192.168.1.1 description RTA
RTD(config-router)#neighbor 192.168.1.2 route-reflector-client
RTD(config-router)#neighbor 192.168.1.2 description RTB
- B. RTC(config-router)#neighbor 192.168.1.4 route-reflector-client
RTC(config-router)#neighbor 192.168.1.4 description RTD
- C. RTA(config-router)#neighbor 192.168.1.4 route-reflector-client
RTA(config-router)#neighbor 192.168.1.4 description RTD
RTB(config-router)#neighbor 192.168.1.4 route-reflector-client
RTB(config-router)#neighbor 192.168.1.4 description RTD
- D. RTB(config-router)#neighbor 192.168.1.3 route-reflector-client
RTB(config-router)#neighbor 192.168.1.3 description RTC
- E. RTB(config-router)#neighbor 192.168.1.3 route-reflector-client
RTB(config-router)#bgp cluster-id 192.168.1.2
RTB(config-router)#no bgp client-to-client reflection

Answer: A

QUESTION 6

Which four statements are correct regarding MSDP configurations and operations? (Choose four.)

- A. The MSDP peers are also typically the RPs in respective routing domains.
- B. SA messages are flooded to all other MSDP peers without any restrictions
- C. On Cisco IOS, IOS-XE, and IOS-XR, the router can be configured to cache the SA messages to

reduce the join latency

- D. SA messages are used to advertise active sources in a domain
- E. MSDP establishes neighbor relationships with other MSDP peers using TCP port 639
- F. MSDP peerings on Cisco IOS, IOS-XE, and IOS-XR support MD5 or SHA1 authentication

Answer: ACDE

QUESTION 7

Which command set is used to configure BFD support for a BGP neighbor that is reachable through GigabitEthernet 0/0/0/0 on Cisco IOS XR?

- A.

```
router bgp 300
bfd multiplier 2
bfd minimum-interval 20
neighbor 10.20.20.2
remote-as 200
```
- B.

```
router bgp 300
bfd multiplier 2
bfd minimum-interval 20
neighbor 10.20.20.2
remote-as 200
bfd fast-detect
```
- C.

```
bfd
echo disable
router bgp 300
neighbor 10.20.20.2
remote-as 200
```
- D.

```
bfd
router bgp 300
neighbor 10.20.20.2
remote-as 200
```
- E.

```
interface Gi0/0/0/0
ipv4 verify unicast source reachable-via rx
router bgp 300
bfd multiplier 2
bfd minimum-interval 20
neighbor 10.20.20.2
remote-as 200
bfd fast-detect
```
- F.

```
interface Gi0/0/0/0
ipv4 verify unicast source reachable-via rx
bfd
interface Gi0/0/0/0
echo disable
router bgp 300
bfd multiplier 2
bfd minimum-interval 20
neighbor 10.20.20.2
remote-as 200
```

Answer: B

QUESTION 8

A network engineer of an ISP using Cisco IOS XR routers wants to limit the number of prefixes that BGP peers can accept. To accomplish this task, the command maximum-prefix 1000 is used. Which two results of this configuration are expected? (Choose two.)

- A. A warning message displays by default when 750 prefixes are received.
- B. A warning message displays by default when 850 prefixes are received.
- C. A BGP peer resets when it receives 1001 prefixes.
- D. A BGP peer resets when it receives 1000 prefixes.
- E. A BGP peer ceases when it receives 1001 prefixes.
- F. A BGP peer ceases when it receives 1000 prefixes.
- G. The BGP peer tries to reestablish the session after one minute.

Answer: AE

QUESTION 9

Which four statements are correct regarding MSDP configurations and operations? (Choose four.)

- A. The MSDP peers are also typically the RPs in respective routing domains.
- B. SA messages are flooded to all other MSDP peers without any restrictions
- C. On Cisco IOS, IOS-XE, and IOS-XR, the router can be configured to cache the SA messages to reduce the join latency
- D. SA messages are used to advertise active sources in a domain
- E. MSDP establishes neighbor relationships with other MSDP peers using TCP port 639
- F. MSDP peerings on Cisco IOS, IOS-XE, and IOS-XR support MD5 or SHA1 authentication

Answer: ACDE

QUESTION 10

In which three cases is a dual-stack IPv6/IPv4 router required? (Choose three.)

- A. tunnel endpoint routers in the case of IPv6 over GRE
- B. transit routers in case of an IPv6 over GRE implementation
- C. 6to4 implementation border routers
- D. 6to4 implementation border and neighboring routers
- E. PE routers in case of an IPv6 over IPv4 tunnel over MPLS implementation
- F. PE and P routers in case of an IPv6 over IPv4 tunnel over MPLS implementation

Answer: ACE

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