



642-885^{Q&As}

Deploying Cisco Service Provider Advanced Routing

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QUESTION 1

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)#


Correct Answer: D

http://www.cisco.com/en/US/tech/tk365/technologies_configuration_example09186a008010a28_a.shtml

QUESTION 2

Refer to the exhibit.

```
interface loopback 0
  ipv4 address 10.0.0.1/24
  no shutdown
!
interface loopback 1
  ipv4 address 10.2.0.1/24
  no shutdown
!
ipv4 access-list acl1
  10 permit 224.11.11.11 0.0.0.0 any
!
ipv4 access-list acl2
  10 permit 224.99.99.99 0.0.0.0 any
!
multicast-routing
  interface all enable
!
router pim
  auto-rp mapping-agent loopback 0 scope 15 interval 60
  auto-rp candidate-rp loopback 0 scope 15 group-list acl1 interval 60 bidir
  auto-rp candidate-rp loopback 1 scope 15 group-list acl2 interval 60
!
end
```





Which three statements are correct regarding the Cisco IOS-XR configuration? (Choose three.)

- A. This router, acting as the RP mapping agent, will send RP announcement messages to the 224.0.1.40 group
- B. This router, acting as the RP mapping agent, will send RP discovery messages to the 224.0.1.39 group
- C. This router is the RP mapping agent only for the 224.11.11.11 and 224.99.99.99 multicast groups
- D. This router is a candidate PIM-SM RP for the 224.99.99.99 multicast group
- E. This router is a candidate PIM-BIDIR RP for the 224.11.11.11 multicast group
- F. IGMPv3 is enabled on all interfaces
- G. Other routers will recognize this router as the RP for all multicast groups with this router loopback 0 IP address

Correct Answer: DEF

QUESTION 3

Which configuration would an engineer use to exchange IPv6 multicast routes via BGP with a neighbor that does not support the corresponding Multicast SAFI on Cisco IOS XE?

- A.

```
router bgp 100
  bgp router-id 209.165.201.10
  no bgp default ipv4-unicast
  neighbor 2001:DB8::10 remote-as 201
  neighbor 2001:DB8::10 update-source GigabitEthernet 0/10
  address-family ipv6 multicast
  neighbor 2001:DB8::10 activate
  network 2001:DB8:CDCD:1::/64 exit-address-family
```
- B.

```
router bgp 100
  bgp router-id 209.165.201.10
  no bgp default ipv4-unicast
  neighbor 2001:DB8::10 remote-as 201
  neighbor 2001:DB8::10 update-source GigabitEthernet 0/10
  address-family ipv6
  neighbor 2001:DB8::10 translate-update
  ipv6 multicast unicast
  neighbor 2001:DB8::10 activate
  no synchronization
  exit address-family
  address-family ipv6 multicast
  neighbor 2001:DB8::10 activate
  network 2001:DB8:CDCD:1::/64 exit-address-family
```
- C.

```
router bgp 100
  bgp router-id 209.165.201.10
  no bgp default ipv4-unicast
  neighbor 2001:DB8::10 remote-as 201
  neighbor 2001:DB8::10 update-source GigabitEthernet 0/10
  address-family ipv6
  neighbor 2001:DB8::10 activate
  address-family ipv6 multicast
  neighbor 2001:DB8::10 activate
  network 2001:DB8:CDCD:1::/64 exit-address-family
```
- D.

```
router bgp 100
  bgp router-id 209.165.201.10
  no bgp default ipv4-unicast
  neighbor 2001:DB8::10 remote-as 201
  neighbor 2001:DB8::10 update-source GigabitEthernet 0/10
  address-family ipv6
  neighbor 2001:DB8::10 translate-update
  ipv6 multicast unicast
  no synchronization
  exit address-family
  address-family ipv6 multicast
  neighbor 2001:DB8::10 activate
  network 2001:DB8:CDCD:1::/64 exit-address-family
```
- E.

```
router bgp 100
  bgp router-id 209.165.201.10
  no bgp default ipv4-unicast
  neighbor 2001:DB8::10 remote-as 201
  neighbor 2001:DB8::10 update-source GigabitEthernet 0/10
  address-family ipv6
  neighbor 2001:DB8::10 send-label
  neighbor 2001:DB8::10 override-capability-neg
  neighbor 2001:DB8::10 activate
  no synchronization
  exit address-family
  address-family ipv6 multicast
  network 2001:DB8:CDCD:1::/64 exit-address-family
```

Correct Answer: B

QUESTION 4

On Cisco IOS-XR, which BGP process can be distributed into multiple instances?

- A. BGP process manager



- B. BGP RIB process
- C. BGP speaker process
- D. BGP scanner process
- E. BGP dampening process

Correct Answer: C

Cisco IOS XR allows you to control the configuration of the number of distributed speakers and enables you to selectively assign neighbors to specific speakers. On the CRS-1 platform, multiple speaker processes up to 15 may be configured. However, configuring all the different speakers on the primary route processor simply adds to the load on the single RP.

Distributed speaker functionality is useful if Distributed Route Processor (DRP) hardware is available to take advantage of process placement. Later sections in this chapter depict distributed BGP and placement of BGP process speakers on DRPs on a CRS-1 router.

In addition to the speaker process, BPM starts the bRIB process once BGP is configured. bRIB process is responsible for performing the best-path calculation based on partial best paths received from the speaker processes. The best route is installed into the bRIB and is advertised back to all speakers. The bRIB process is also responsible for installing routes

QUESTION 5

Which Cisco IOS XR command sets successfully configure a value of 20 for the advertisement- interval?

- A. RP/0/RSP0/CPU0:routerconfig)# router bgp 65512 RP/0/RSP0/CPU0:router(config-bgp)# session-group test RP/0/RSP0/CPU0:router(config-bgp-sngrp)# advertisement-interval 20 RP/0/RSP0/CPU0:router (config-bgp-sngrp)# exit RP/0/RSP0/CPU0:router(config-bgp)# neighbor-group test RP/0/RSP0/CPU0:router(config-bgp-nbrgrp)# advertisement-interval 25 RP/0/RSP0/CPU0:router (config-bgp-nbrgrp)# exit RP/0/RSP0/CPU0:router(config-bgp)# exit RP/0/RSP0/CPU0:router(config-bgp)# neighbor 192.168.1.1 RP/0/RSP0/CPU0:router(config-bgp-nbr)# remote-as 65513 RP/0/RSP0/CPU0:router(config-bgpnbr)# use session-group test RP/0/RSP0/CPU0:router(config-bgp-nbr)# use neighbor-group test
- B. RP/0/RSP0/CPU0:routerconfig)# router bgp 65512 RP/0/RSP0/CPU0:router(config-bgp)# session-group test RP/0/RSP0/CPU0:router(config-bgp-sngrp)# ebgp-multihop 2 RP/0/RSP0/CPU0:router(config-bgpsngrp)# exit RP/0/RSP0/CPU0:router(config-bgp)# neighbor-group test RP/0/RSP0/CPU0:router(config-bgp-nbrgrp)# advertisement-interval 20 RP/0/RSP0/CPU0:router (config-bgp-nbrgrp)# exit RP/0/RSP0/CPU0:router(config-bgp)# exit RP/0/RSP0/CPU0:router(config-bgp)# neighbor 192.168.1.1 RP/0/RSP0/CPU0:router(config-bgp-nbr)# remote-as 65513 RP/0/RSP0/CPU0:router(config-bgpnbr)# use session-group test RP/0/RSP0/CPU0:router(config-bgp-nbr)# use neighbor-group test
- C. RP/0/RSP0/CPU0:routerconfig)# router bgp 65512 RP/0/RSP0/CPU0:router(config-bgp)# session-group test RP/0/RSP0/CPU0:router(config-bgp-sngrp)# exit RP/0/RSP0/CPU0:router(config-bgp)# neighbor-group test RP/0/RSP0/CPU0:router(config-bgp-nbrgrp)# exit RP/0/RSP0/CPU0:router(config-bgp)# exit RP/0/RSP0/CPU0:router(config-bgp)# neighbor 192.168.1.1 RP/0/RSP0/CPU0:router(config-bgp-nbr)# remote-as 65513 RP/0/RSP0/CPU0:router(config-bgpnbr)# use session-group test RP/0/RSP0/CPU0:router(config-bgp-nbr)# use neighbor-group test
- D. RP/0/RSP0/CPU0:routerconfig)# router bgp 65512 RP/0/RSP0/CPU0:router(config-bgp)# session-group test RP/0/RSP0/CPU0:router(config-bgp-sngrp)# advertisement-interval 25 RP/0/RSP0/CPU0:router (config-bgp-sngrp)# exit RP/0/RSP0/CPU0:router(config-bgp)# neighbor-group test RP/0/RSP0/CPU0:router(config-bgp-nbrgrp)# advertisement-interval 20 RP/0/RSP0/CPU0:router (config-bgp-nbrgrp)# exit RP/0/RSP0/CPU0:router(config-bgp)# exit



```
RP/0/RSP0/CPU0:router(config-bgp)# neighbor 192.168.1.1 RP/0/RSP0/CPU0:router(config-bgp-nbr)# remote-as 65513 RP/0/RSP0/CPU0:router(config-bgp-nbr)# use session-group test RP/0/RSP0/CPU0:router(config-bgp-nbr)# use neighbor-group test
```

Correct Answer: A

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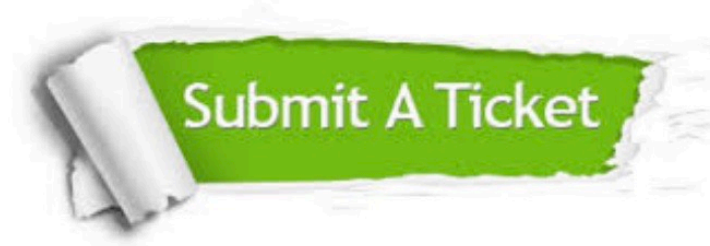
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