



642-885^{Q&As}

Deploying Cisco Service Provider Advanced Routing

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QUESTION 1

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

Correct Answer: AD

<http://packetlife.net/blog/2009/nov/23/understanding-bgp-ttl-security/>

QUESTION 2

Which multicast implementation is preferred for traffic that is required by a small number of receivers across a large distributed network?

- A. DVMRP
- B. PIM-DM
- C. PIM-SM
- D. IGMP

Correct Answer: C

QUESTION 3

Which command set should be used for a 6to4 tunnel in a Cisco IOS XE router, considering the border interface with IPv4 address of 209.165.201.2?

- A. interface Tunnel2002 ipv6 enable ipv6 address 2002:D1A5:C902::1/128 tunnel source Ethernet0/0 tunnel mode ipv6ip 6to4
- B. interface Tunnel2002 ipv6 enable ipv6 address 2002:D1A5:D902::1/128 tunnel source Ethernet0/0 tunnel mode ipv6ip 6to4
- C. interface Tunnel2002 ipv6 enable ipv6 address 2002:D1A5:D902::1/128 tunnel source Ethernet0/0 tunnel mode ipv6ip
- D. interface Tunnel2002 ipv6 enable ipv6 address 2002:D1A5:C902::1/128 tunnel source Ethernet0/0 tunnel mode ipv6ip auto-tunnel

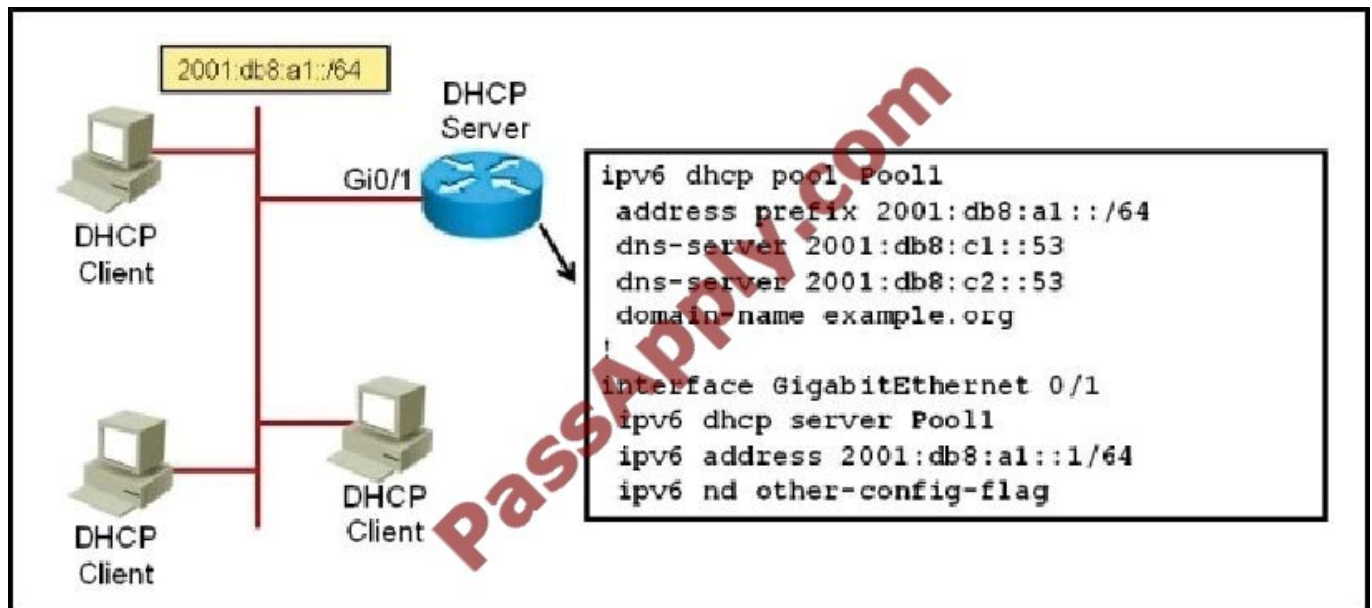


E. interface Tunnel2002 ipv6 enable ipv6 address 2002:D1A5:D902::1/128 tunnel source Ethernet0/0 tunnel mode ipv6ip auto-tunnel

Correct Answer: B

QUESTION 4

Refer to the Cisco IOS DHCPv6 configuration shown in the exhibit.



Which statement is correct?

- A. The configuration is missing a command under interface Gi0/1 to indicate to the attached hosts to use stateful DHCPv6 to obtain their IPv6 addresses
- B. The IPv6 router advertisements indicate to the attached hosts on the Gi0/1 interface to get other information besides their IPv6 address via stateless auto configuration
- C. The IPv6 DHCPv6 server pool configuration is misconfigured
- D. The DNS server address can also be imported from another upstream DHCPv6 server

Correct Answer: A

Server Configuration In Global Configuration Mode ipv6 unicast-routing ipv6 dhcp pool address prefix lifetime dns-server domain-name exit In Interface Configuration Mode ipv6 address ipv6 dhcp server rapid-commit Client Configuration In Global Configuration Mode enable configure terminal ipv6 unicast-routing In Interface Configuration Mode ipv6 address dhcp rapid commit ipv6 enable exit

QUESTION 5

An SP core is running PIM on the network. Multicast groups in this network are in the 232.0.0.0/8 range. Which command enables multicast routing operations without using an RP?



- A. ip pim autorp
- B. ip pim ssm default
- C. ip pim bidir-enable
- D. ip pim register-source

Correct Answer: B

QUESTION 6



Instructions

Enter the proper CLI commands and analysis the outputs on the Cisco routers to answer the multiple-choice questions.

From the network topology diagram, click on each of the router icon to gain access to the console of each router.

No console or enable passwords are required.

There are four multiple-choice questions with this task. Be sure to answer all four questions before selecting the Next button.

Not all the CLI commands or commands options are supported or required for this simulation.

For example, the show running-config and the ping commands are **NOT** supported in this simulation.

All the devices in this simulation have been pre-configured and you are not required to enter in any configurations.

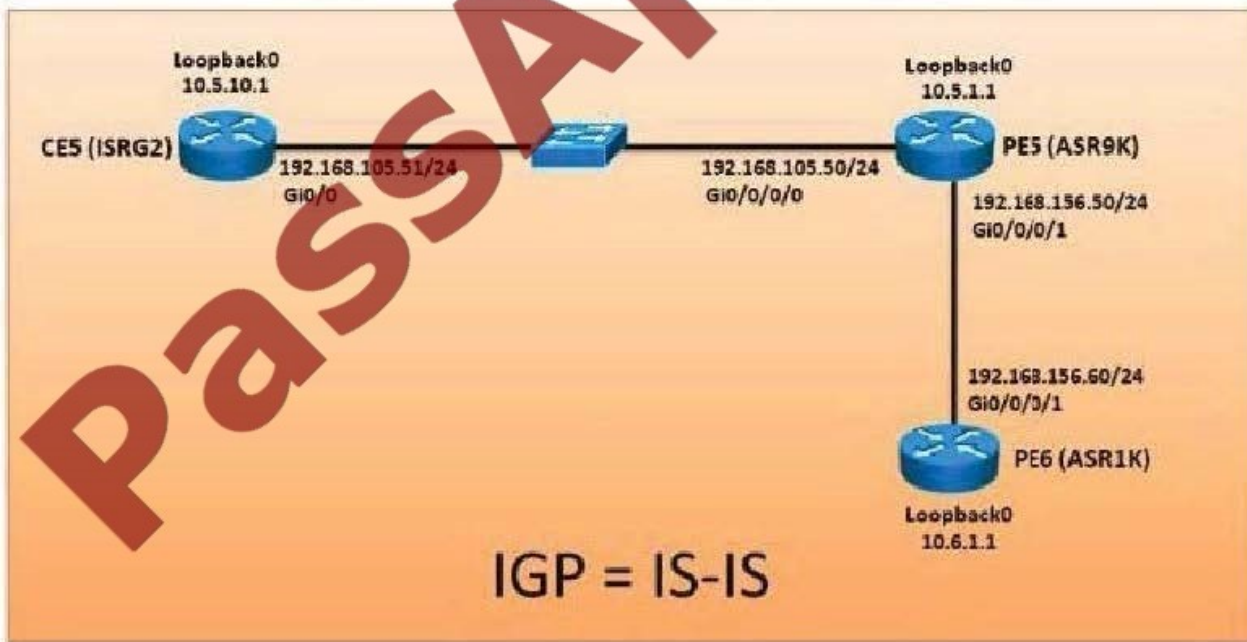
Scenario

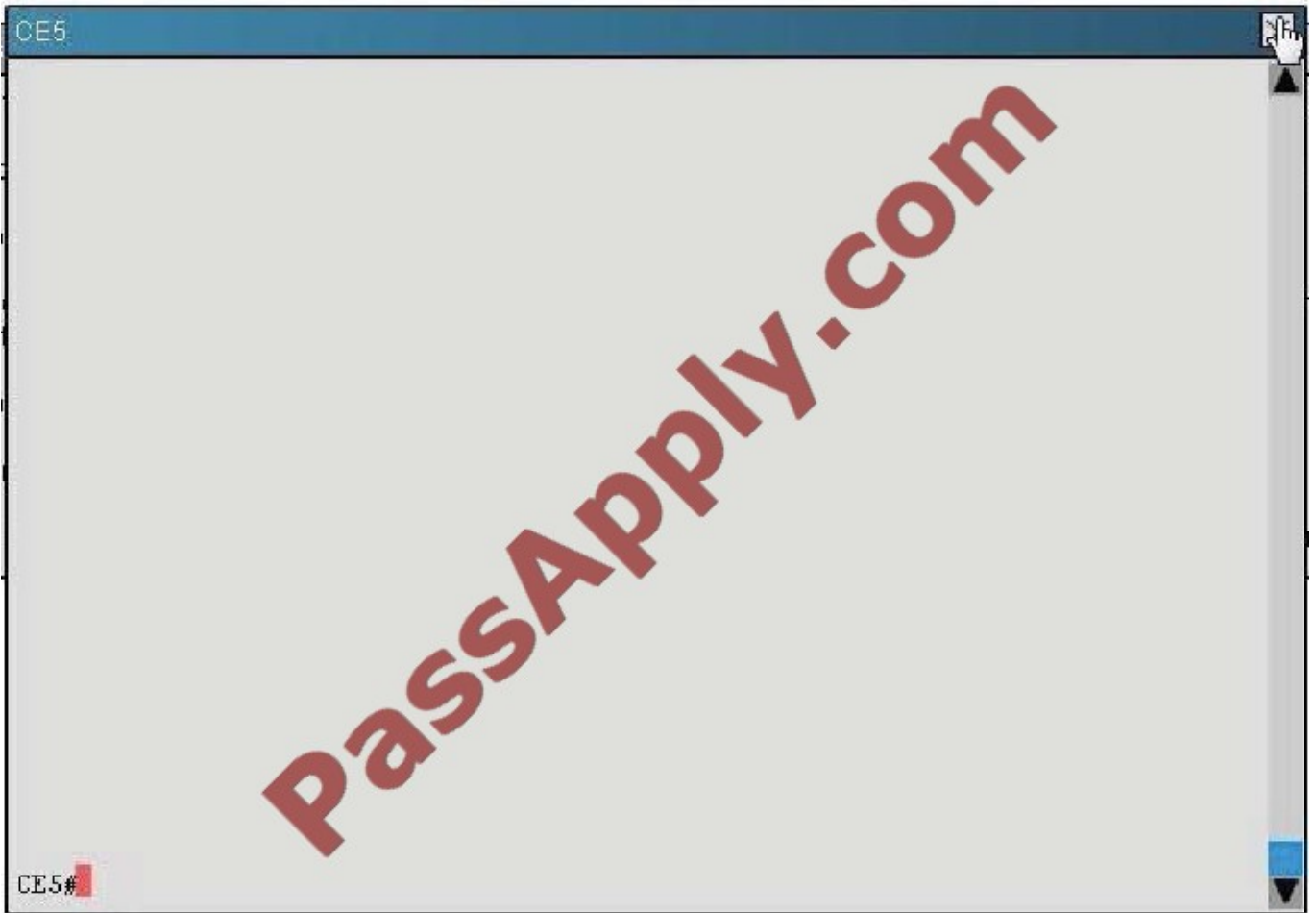
Referring to the network topology diagram shown in the exhibit, use the proper CLI commands on the CE5, PE5 and PE6 routers and interpret the supported CLI commands outputs to answer the four multiple choice questions.

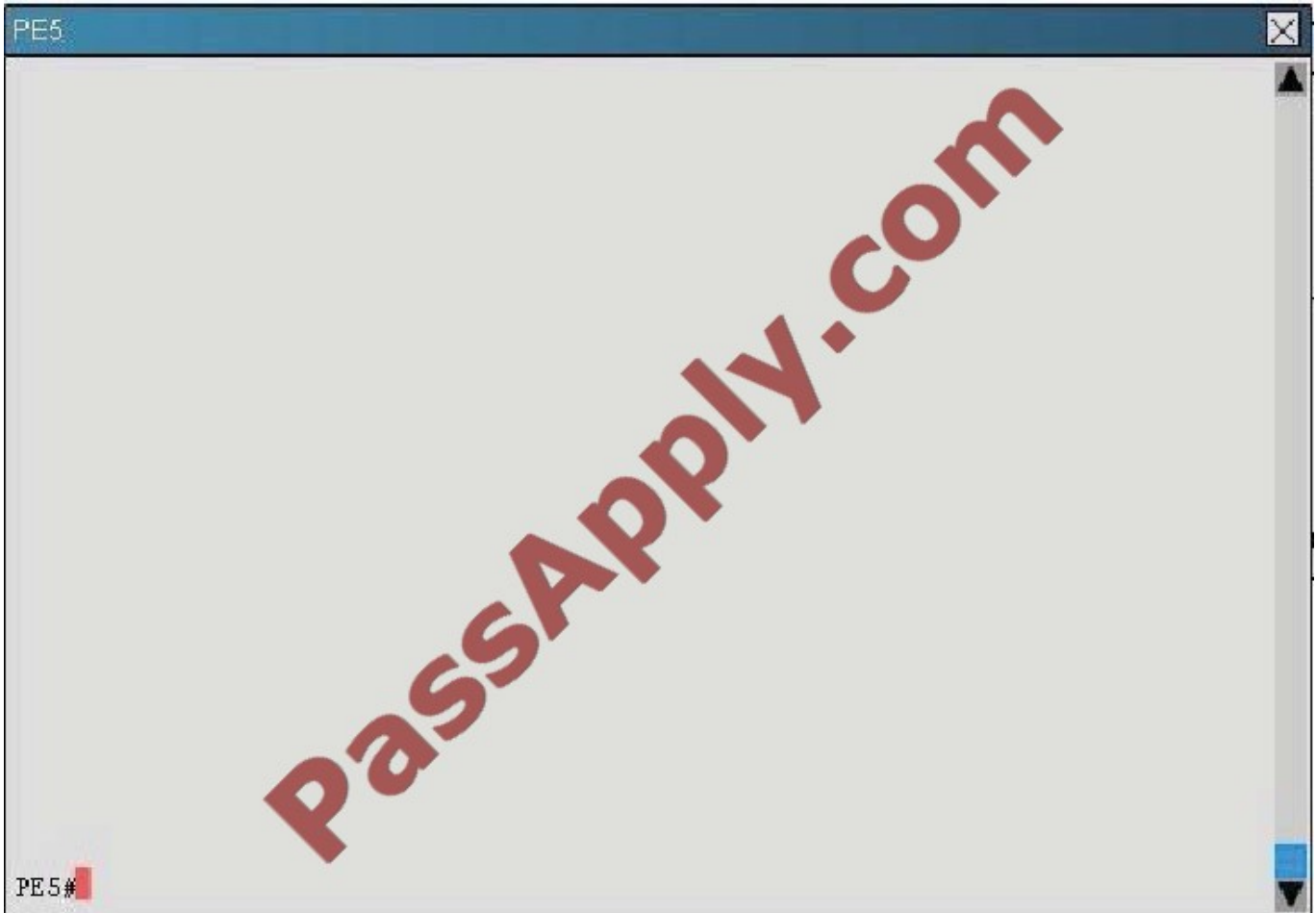
Note: The CE5 router is an IOS router, the PE5 router is an IOS-XR router, and the PE6 router is an IOS-XE router.

Exhibit

Click on the CE5 and PE5 icons to access the respective router console
This simulation does not require access to the PE6 router







Which router is configured as the RP for the 234.1.1.1 multicast group and which is the multicast source that is currently sending traffic to the 234.1.1.1 multicast group? (Choose two.)

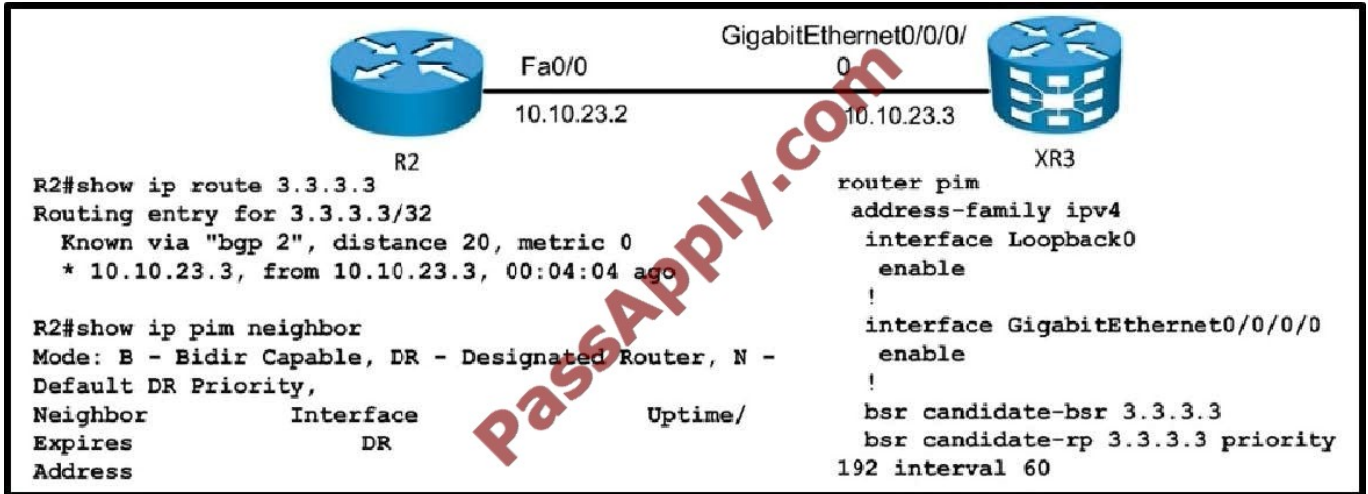
- A. CE5
- B. PE5
- C. PE6
- D. 10.5.10.1
- E. 10.5.1.1
- F. 192.168.156.60

Correct Answer: CE

```
#show ip mroute 234.1.1.1 #show ip route
```

QUESTION 7

Refer to the exhibit. R2 cannot learn RP information from XR3. Which issue is the source of the problem?



- A. XR3 is not the DR.
- B. Multicast routing is not enabled on the XR3 Giga0/0/0/0 interface.
- C. R2 is learning the RP address via non-IGP routing protocol.
- D. Multicast routing is not enabled on the XR3 Loopback0 interface.
- E. BGP IPv4 MDT address family is not enabled on XR3.

Correct Answer: D

QUESTION 8

Refer to the Cisco IOS-XR BGP configuration exhibit.



```
!  
route-policy passall  
permit  
end-policy  
!  
router bgp 65123  
af-group abc address-family ipv4 unicast  
route-policy passall in  
route-policy passall out  
!  
neighbor-group efg  
password Clsc0!3o  
ttl-security  
update-source Loopback0  
maximum-prefix 10  
address-family ipv4 unicast  
use af-group abc  
!  
neighbor 209.165.201.130  
remote-as 65234  
use neighbor-group efg  
!
```

Identify two configuration errors. (Choose two.)

- A. The neighbor-group efg is missing the ebgp-multihop 2 configuration
- B. The ttl-security configuration command is missing the option to set the number of hops
- C. The passall route policy is wrong
- D. The route-policy passall in and route-policy passall out commands should be configured under the neighbor-group efg instead of the af-group abc
- E. The maximum-prefix 10 configuration should be configured under the af-group abc instead of the neighbor-group efg

Correct Answer: CE

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

QUESTION 9

What must occur before an (S,G) entry can be populated in the multicast routing table?

- A. The (*,G) entry must have timed out



- B. The (*,G) entry OIL must be null
- C. The router must be directly connected to the multicast source
- D. The parent (*,G) entry must be created first

Correct Answer: D

QUESTION 10

With IPv6 multicast, which feature can be used as a replacement method for static RP configuration?

- A. PIM Snooping
- B. MLD
- C. MLD Snooping
- D. Embedded RP
- E. DHCPv6

Correct Answer: D

QUESTION 11

A network engineer must deploy an iBGP-based cloud region configuration by means of templates to reduce the overall BGP CLI required. Which three commands represent a basic configuration for a BGP peer session template on a regular Cisco IOS instance? (Choose three.)

- A. template peer-session session-template-name
- B. remote-as as-number
- C. neighbor-family config template
- D. peer-family config template
- E. as-override
- F. timers keepalive-interval hold-time

Correct Answer: ABF

QUESTION 12

When implementing high-availability stateful switchover BGP routing, in which situation would Cisco NSR be required?

- A. On the PE routers connecting to the CE routers which are not NSF aware or are not NSF capable



- B. On the PE routers connecting to the CE routers which support graceful restart
- C. On the PE routers connecting to the CE routers which are incapable of performing stateful switchover operations because the CE routers are only NSF aware but not NSF capable
- D. On the PE routers connecting to the CE routers which are incapable of performing stateful switchover operations because the CE routers are only NSF capable but not NSF aware
- E. On the service provider core P routers which are also NSF aware
- F. On the service provider core P routers which are also NSF capable

Correct Answer: A

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