



# 642-885<sup>Q&As</sup>

Deploying Cisco Service Provider Advanced Routing

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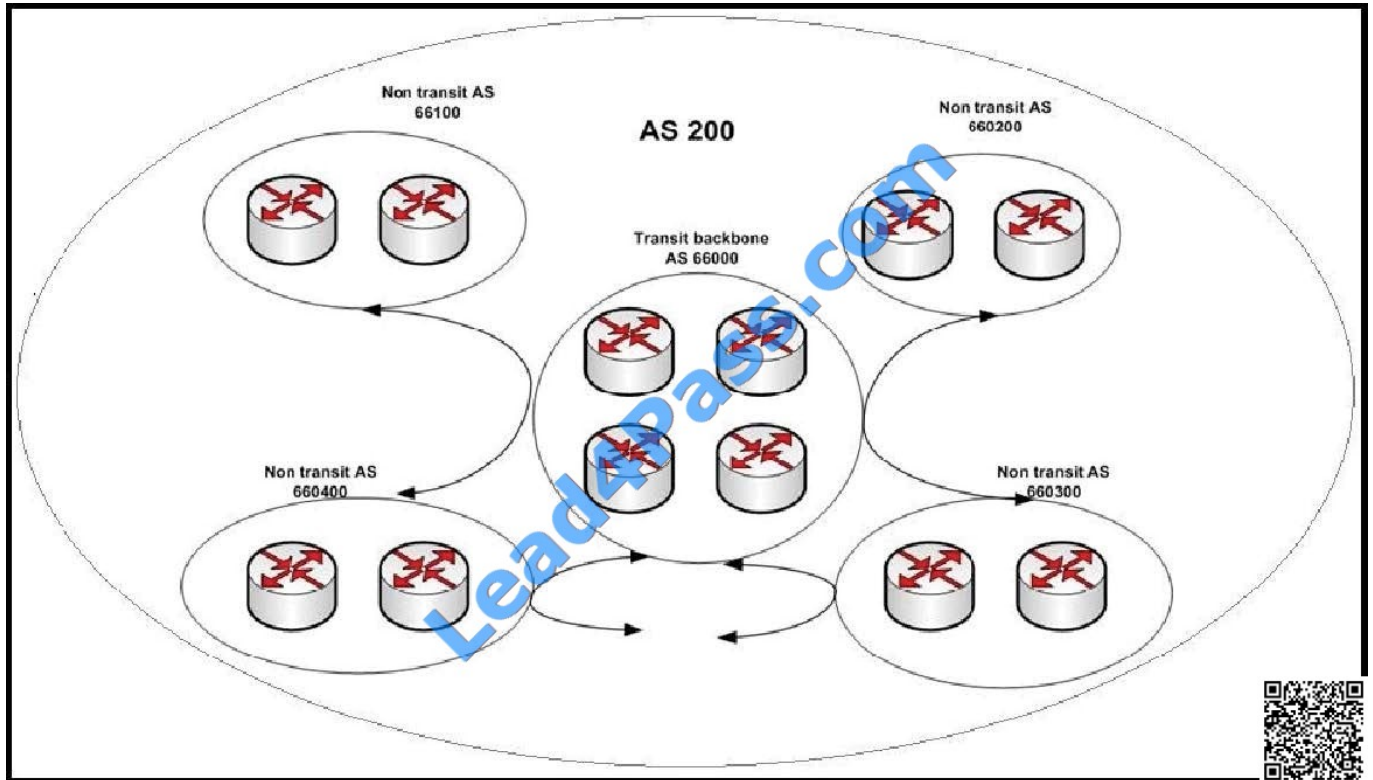
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### QUESTION 1

Refer to the exhibit.



Which option is the function of designing a hub and spoke confederation?

- A. allows transit backbone area 66000 to be a blackhole for non-transit ASs
- B. reduces the iBGP mesh, iBGP mesh will be in sub non-transit ASs
- C. increases eBGP sessions between the confederation sub ASs
- D. allows transit backbone area and non-transit ASs to run the same IGP

Correct Answer: B

### QUESTION 2

Refer to the Cisco IOS-XR show output exhibit.



```
RP/0/RSP0/CPU0:P1#show bgp neighbors 10.1.1.1 configuration
Wed Oct 26 17:45:09.690 UTC
neighbor 10.1.1.1
  remote-as 64500
  update-source Loopback0 [ ]
  address-family IPv4 Unicast [ ]
```

Which statement is correct?

- A. The [ ] indicates the configuration has a problem
- B. The [ ] indicates the 10.1.1.1 neighbor peering session has not been established
- C. The [ ] indicates the configuration was not inherited from a group
- D. The [ ] indicates the configuration has not been committed
- E. The [ ] indicates the corresponding BGP peer configuration has a mismatch configuration

Correct Answer: C

: show bgp neighbors Use the show bgp neighbors command to display information about the BGP configuration for neighbors. Use the configuration option to display the effective configuration for the neighbor, including any settings that have been inherited from session groups, neighbor groups, or af-groups used by this neighbor. Use the inheritance option to display the session groups, neighbor groups, and af-groups from which this neighbor inherits configuration settings. The following example displays sample output from the show bgp af-group command using the configuration keyword. This example shows where each configuration item was inherited from. The default-originate command was configured directly on this address family group (indicated by [ ]). The remove-private-as command was inherited from address family group GROUP\_2, which in turn inherited from address family group GROUP\_3:

```
RP/0/0/CPU0:router# show bgp af-group GROUP_1 configuration

af-group GROUP_1 address-family ipv4 unicast
  capability orf prefix-list both [a:GROUP_2]
  default-originate [ ]
  maximum-prefix 2500 75 warning-only [ ]
  policy POLICY_1 in [a:GROUP_2 a:GROUP_3]
  remove-private-AS [a:GROUP_2 a:GROUP_3]
  send-community-ebgp [a:GROUP_2]
  send-extended-community-ebgp [a:GROUP_2]
```



### QUESTION 3

Refer to the exhibit.

```
router bgp 65123
  bgp graceful-restart
```

Which statement correctly explains the bgp graceful-restart command?

- A. This command is used to enable NSR and is entered on the NSR-capable router, and also on any NSR-aware peer
- B. This command is used to enable NSF and is entered on the NSF-capable router, and also on any NSF-aware peer
- C. This command is only required on the NSF-capable routers to enable BGP graceful restart with the BGP peers
- D. This command is only required on the NSF-aware routers to enable BGP graceful restart with the BGP peers
- E. This command is only required on the NSR-capable routers to enable BGP graceful restart with the BGP peers

Correct Answer: B

Graceful restart is supported in recent versions of Cisco IOS software (12.0S) and is supported in Cisco IOS XR software. Graceful restart is the mechanism by which BGP routing peers avoid changes to their forwarding paths following a switchover. If the BGP peer has received this capability, it is aware that the device sending the message is nonstop forwarding (NSF)-capable. Both the NSF-capable router and its BGP peers (NSF-aware peers) need to exchange the graceful restart capability in their OPEN messages, at the time of session establishment. If both peers do not exchange the graceful restart capability, the session will not be graceful restart-capable. If the BGP session is lost during a Route Processor (RP) switchover or BGP process restart, the NSF-aware BGP peer marks all the routes associated with the NSF-capable router as stale; however, it continues to use these routes to make forwarding decisions for a set period of time. This functionality means that no packets are lost while the newly active RP is waiting for convergence of the routing information with its BGP peers.

After a failover event occurs, the NSF-capable router reestablishes the session with the BGP peer. In establishing the new session, it sends a new graceful restart message that identifies the NSF-capable router as having restarted. At this point, the routing information is exchanged between the two BGP peers. Once this exchange is complete, the NSF-capable device uses the newly received routing information to update the RIB and the Forwarding Information Base (FIB) with the new forwarding information. The NSF-aware device uses the network information to remove stale routes from its BGP table. The BGP protocol is then fully converged. If a BGP peer does not support the graceful restart capability, it will ignore the graceful restart capability in an OPEN message but will establish a BGP session with the NSF-capable device. This functionality will allow interoperability with non-NSF-aware BGP peers (and without NSF functionality), but the BGP session with non-NSF-aware BGP peers will not be graceful restart-capable.

### QUESTION 4

Which two functions are supported for BGP extension MP-BGP for IP multicasting? (Choose two.)

- A. A network can support incongruent unicast and multicast topologies.
- B. A network can support congruent unicast and multicast topologies.



- C. MP-BGP is an enhanced BGP that carries routing information for multiple network layer protocols and IP multicast routes.
- D. MP-BGP carries single sets of routes for unicast routing and multicast routing.
- E. MP-BGP is useful when a link dedicated to multicast and unicast traffic is desired.

Correct Answer: AC

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#### QUESTION 5



**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. If a certain command or command option is not supported, please try to use a different command that is supported.**

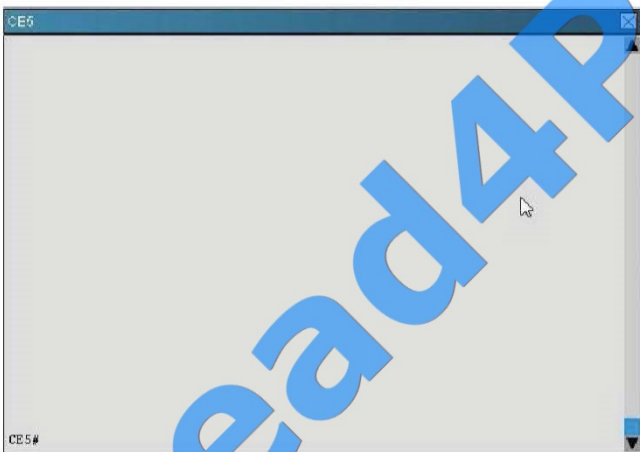
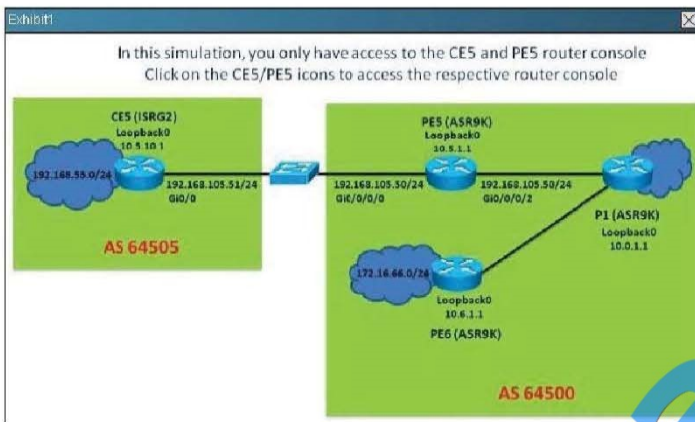
For example, the show running-config and the ping commands are **NOT** supported in this simulation.

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 and PE5 routers and interpret the supported CLI commands outputs to answer the four multiple choice questions.

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







On the PE5 router, which statement is correct regarding the learned BGP prefixes?

- A. The 209.165.201.0/27 prefix is received from the 10.0.1.1 IBGP peer which is a route reflector
- B. The 172.16.66.0/24 prefix BGP next-hop points to the route reflector
- C. All prefixes learned on PE5 has the default local preference value
- D. The 209.165.202.128/27 prefix is originated by the 10.0.1.1 IBGP peer

Correct Answer: C

#show ip bgp -- check i tag for PE5

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