



642-885^{Q&As}

Deploying Cisco Service Provider Advanced Routing

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QUESTION 1

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.

Correct Answer: AE

QUESTION 2

Refer to the exhibit.



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 3

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

QUESTION 4



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.

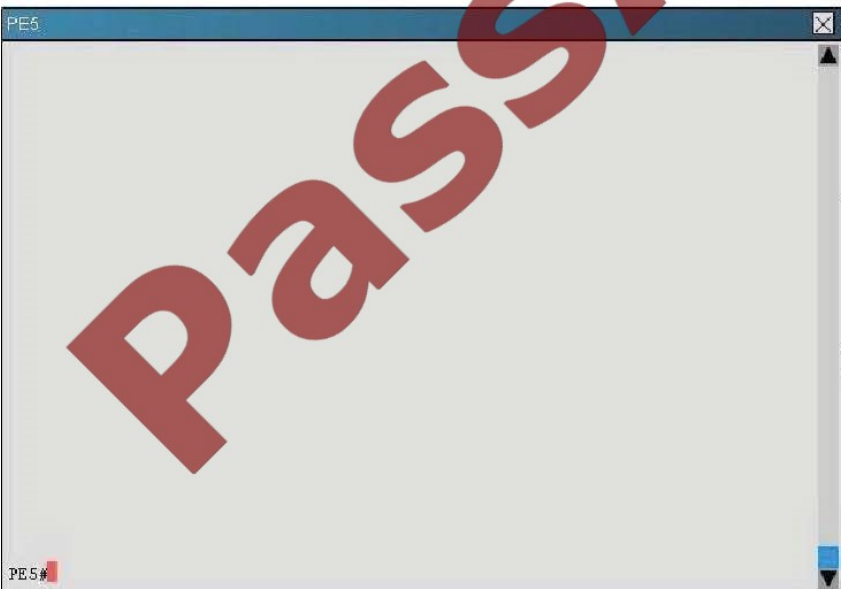
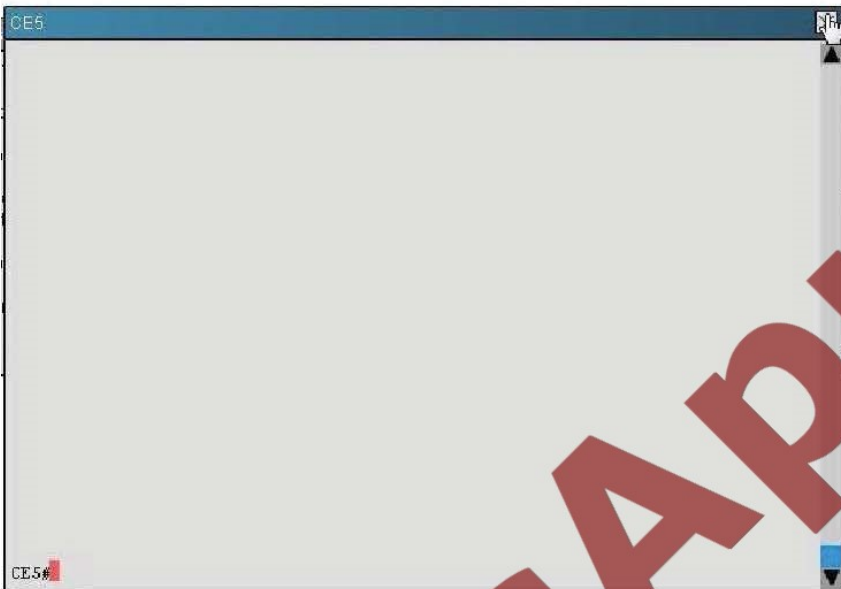
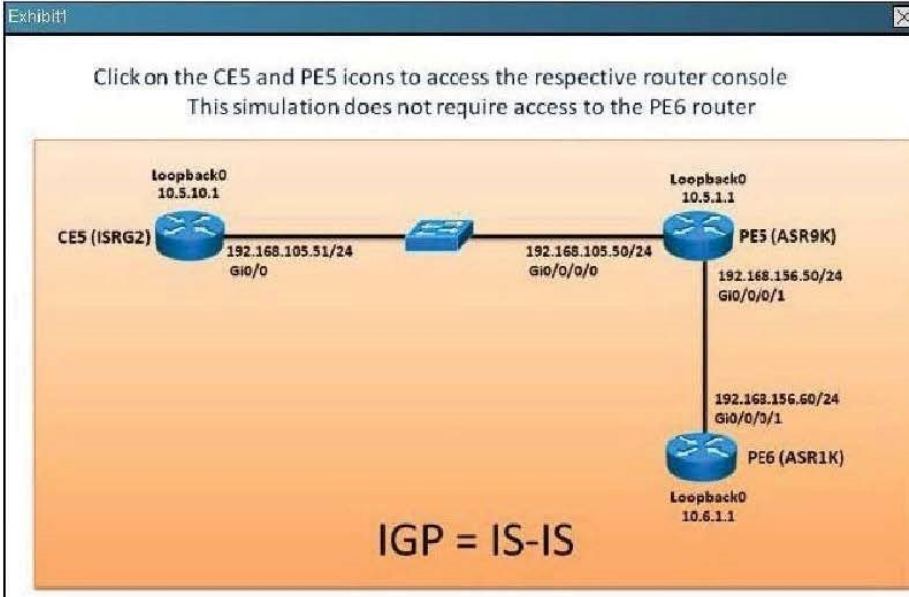
For example, the show running-config and the ping commands are NOT supported in this simulation.

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.





Which three statements are correct regarding the various multicast groups? (Choose three.)

- A. Currently there is no source sending traffic to the 224.1.1.1 multicast group
- B. PE5 has a Null OIL for the (*,224.0.1.40) entry
- C. PE5 has a Null OIL for the (*,224.1.1.1) entry
- D. CE5 has joined the 224.0.1.40 multicast group
- E. CE5 has a Null OIL for the (*,224.1.1.1) entry

Correct Answer: CDE

#show ip mroute

QUESTION 5

Which type of BGP session behaves like an EBGP session during session establishment but behaves like an IBGP session when propagating routing updates where the local preference, multi-exit discriminator, and next-hop attributes are not changed?

- A. BGP sessions between a route reflector and its clients
- B. BGP sessions between a route reflector and its non-client IBGP peers
- C. BGP sessions between a route reflector and another route reflector
- D. Intra-confederation IBGP sessions
- E. Intra-confederation EBGP sessions

Correct Answer: E

http://www.cisco.com/en/US/docs/ios_xr_sw/iosxr_r3.7/routing/configuration/guide/rc37bgp.html#wp1191371

BGP Routing Domain Confederation One way to reduce the iBGP mesh is to divide an autonomous system into multiple subautonomous systems and group them into a single confederation. To the outside world, the confederation looks like a single autonomous system. Each autonomous system is fully meshed within itself and has a few connections to other autonomous systems in the same confederation. Although the peers in different autonomous systems have eBGP sessions, they exchange routing information as if they were iBGP peers. Specifically, the next hop, MED, and local preference information is preserved. This feature allows you to retain a single IGP for all of the autonomous systems.

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