



642-883^{Q&As}

Deploying Cisco Service Provider Network Routing

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QUESTION 1

When redistributing routes into OSPF, which kind of routes will be redistributed by default on Cisco IOS XR Software but will not be automatically redistributed by default on Cisco IOS Software and Cisco IOS XE Software?

- A. Type 1 external routes
- B. Type 2 external routes
- C. subnetted routes
- D. /32 host routes
- E. tagged static routes

Correct Answer: C

Table 12 Redistribution Configurations for OSPF in Cisco IOS and Cisco IOS XR

Cisco IOS	Cisco IOS XR
<pre>router ospf 1 redistribute connected subnets redistribute static subnets route-map map</pre>	<pre>router ospf lab redistribute connected redistribute static policy</pre>

You no longer need the **subnets** keyword in Cisco IOS XR, and you declare an RPL policy rather than a route map.

If you want to redistribute only classful routes into OSPF in Cisco IOS XR, you can use the **redistribute** command with the classful keyword. The use of policies rather than route maps is covered in the ["Border Gateway Protocol \(BGP\)"](#) section and also in the existing Cisco IOS XR documentation on RPL. The main piece of information to get from this discussion is that redistribution into OSPF on Cisco IOS XR is a policy attach point.

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QUESTION 2

What are two purposes of the BGP scan-time command? (Choose two.)

- A. to tune the BGP process which walks the BGP table and confirms the reachability of next hops
- B. to allow faster detection of downed BGP peers
- C. to improve BGP convergence time
- D. to tune the BGP update interval
- E. to decrease the effects of unstable routes by increasing the route suppression time

Correct Answer: AC



<http://www.networkers-online.com/blog/2008/12/bgp-performance-tunning-convergence-stability-scalabilityand-nsf-part-2/>

Background BGP scanner

It is responsible for BGP housekeeping by scanning both the BGP RIB and the IP RIB and cleaning and sorting things out.

BGP monitors the next hop of the installed routes to verify next-hop reachability and to select, install, and validate the BGP best path. By default, the BGP scanner polls the RIB for this information every 60 seconds.

During the 60 second time period between scan cycles, IGP instabilities or other network failures can cause temporarily black holes and routing loops.

NOTE With Cisco IOS the default timer is 60 seconds for the IPv4 address family and 15 seconds for the

VPNv4 address family in order to optimize the VPNs routing table convergence. This timer can be controlled via the following command:

```
Router(config-router)#bgp scan-time
```

QUESTION 3



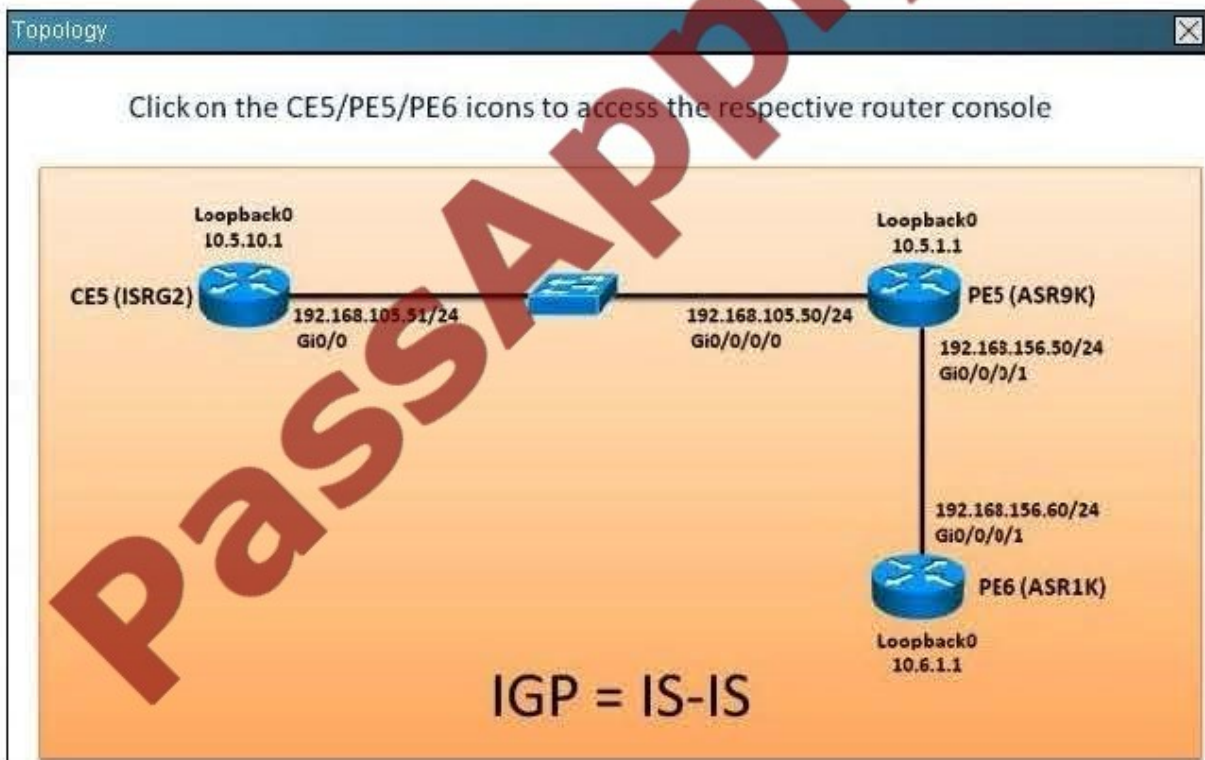
Instructions

- 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.



There are how many IS-IS area(s) defined in this network Scenario?

- A. 1
- B. 2
- C. 3
- D. 4



Correct Answer: C

QUESTION 4

Which configuration allows incoming traffic on the FastEthernet 0/1 interface of a router to be policy-routed via the next-hop 192.168.10.1, when it is reachable and otherwise be routed normally?

- A. interface Fa0/1 ip policy route-map nh-reachable route-map nh-reachable permit 10 set ip next-hop verify-availability route-map nh-reachable permit 20 set ip next-hop 192.168.10.1
- B. interface Fa0/1 ip policy route-map nh-reachable route-map nh-reachable permit 10 set ip next-hop verify-availability 192.168.10.1 route-map nh-reachable permit 20
- C. interface Fa0/1 ip policy route-map nh-reachable route-map nh-reachable permit 10 set ip next-hop 192.168.10.1 track route-map nh-reachable permit 20
- D. interface Fa0/1 ip policy route-map nh-reachable route-map nh-reachable permit 10 set ip next-hop 192.168.10.1 route-map nh-reachable permit 20 set default interface

Correct Answer: B

QUESTION 5

Refer to the IS-IS configuration exhibit.

```
router isis 1
 net 49.0001.0100.0100.1001.00
 address-family ipv4 unicast
 !
 address-family ipv6 unicast
 single-topology
 !
 interface gi0/0/0/0
 address-family ipv4 unicast
 !
 address-family ipv6 unicast
```

This is the typical IS-IS configuration of the routers in an AS using IS-IS as the IGP. This AS is in the transition phase of integrating IPv6 into the network. During this transition phase, some of the routers within the AS might be running IPv4 only, some might be running IPv6 only, and others might be running both IPv4 and IPv6. To avoid any black holes for the IPv6 traffic, which configuration change can be made?

- A. Disable IS-IS adjacency checks.
- B. Enable IPv6 adjacency over IPv4 IS-IS peering.
- C. Enable multi-topology IS-IS.
- D. Disable the IPv4 unicast address-family.
- E. Enable IS-IS wide metric to support the single-topology mode.



Correct Answer: C

QUESTION 6

A service provider has set up new eBGP sessions for new customers who require Internet connectivity for their own public AS sessions. To connect, these sessions require MD5 authentication and no cluster ID configured. The NOC notified that one of these eBGP neighbors does not establish any session with the CE BGP speaker. Which option is a potential cause if the BGP configuration is correct?

- A. The BGPMD5 password has been typed incorrectly producing a failure in the authentication process.
- B. A public AS does not require another service provider to connect to the Internet. The BGP configuration automatically blocks this type of design due to loop-avoidance built-in mechanisms.
- C. The customer BGP speaker is receiving too many prefixes at once and no connection can be established without a maximum ?refix value configured.
- D. No cluster ID is configured, so the BGP process does not find a way to identifythe service provider BGP speaker in the customer BGP route reflectors cluster-list. The session is not established to keep the customer iBGP core network loop-free.

Correct Answer: A

QUESTION 7

A network engineer is configuring IS-IS in Cisco IOS XR. Where is BFD configured?

- A. RP/0/RSP0/CPU0:router(config-isis-if)#
- B. RP/0/RSP0/CPU0:router(config)#
- C. RP/0/RSP0/CPU0:router(config-bfd)#
- D. RP/0/RSP0/CPU0:router(config-isis-if-af)#

Correct Answer: A

QUESTION 8

Which AS path access list is used by a multihomed customer to only announce their own address space to their service providers to prevent the multihomed customer from becoming a transit AS?

- A. ip as-path access-list permit.*
- B. ip as-path access-list permit^\$
- C. ip as-path access-list permit _\$
- D. ip as-path access-list permit _^
- E. ip as-path access-list permit local-as ip as-path access-list deny *



F. ip as-path access-list deny.* ip as-path access-list permit *

Correct Answer: B



CHAR	USAGE
^	Start of string
\$	End of string
[]	Range of characters
-	Used to specify range (i.e. [0-9])
()	Logical grouping
.	Any single character
*	Zero or more instances
+	One or more instance
?	Zero or one instance
_	Comma, open or close brace, open or close parentheses, start or end of string, or space

Some commonly used regular expressions include:

Expression	Meaning
.*	Anything
^\$	Locally originated routes
^100	Learned from AS 100
_100\$	Originated in AS 100
100	Any instance of AS 100
^[0-9]+\$	Directly connected ASes

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QUESTION 9

What are two ways to advertise networks into BGP? (Choose two.)

- A. using the neighbor router BGP command
- B. using a route policy in Cisco IOS XR Software or using a route map in Cisco IOS Software or Cisco IOS XE Software
- C. using route redistribution into BGP
- D. using the network router BGP command
- E. enabling an interface to run BGP using the interface router BGP command

Correct Answer: CD

QUESTION 10

When implementing OSPF, which type of networks require DR/BDR election?

- A. point-to-point networks
- B. mutli-access broadcast networks
- C. non-broadcast multi-access networks (Hub and Spoke Frame Relay) using point-to- multipoint OSPF network type D. All networks type

Correct Answer: B

QUESTION 11

An engineer has two routers multihomed to the Internet via BGP. The first should be the primary path for all outbound traffic and the second should automatically become active in the event the primary goes offline. Which method to configure the routers is the most simple?

- A. Set the local-preference to be higher on the primary router.
- B. Set the local-preference to be lower on the primary router.
- C. Set the MED to be higher on the primary router than the backup.
- D. Set the primary router to have a higher weight than the backup.

Correct Answer: A

QUESTION 12



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.

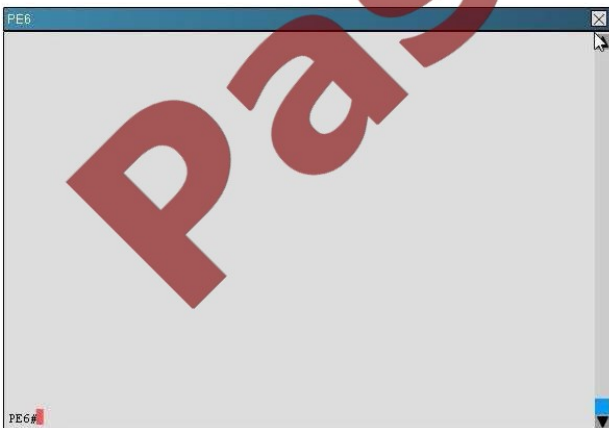
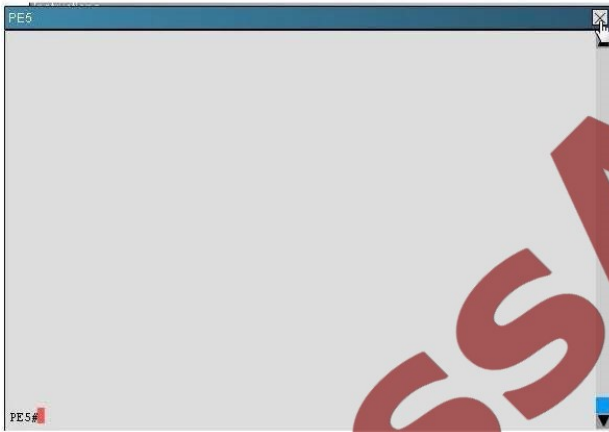
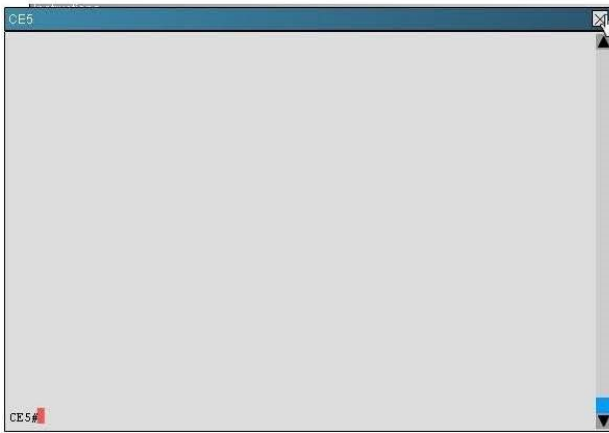
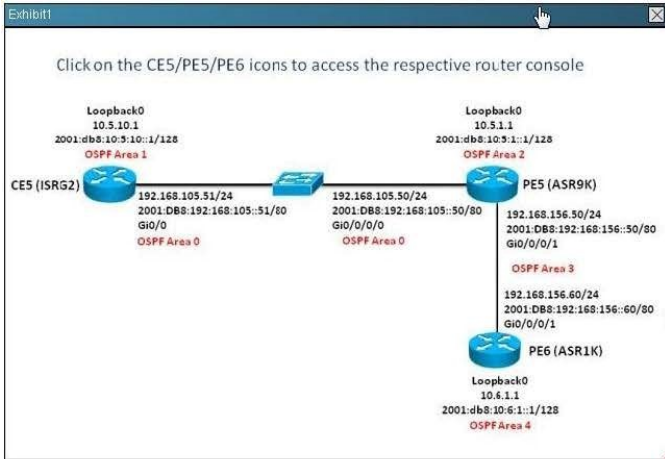
For example, the show running-config and the ping commands are **NOT** supported in this simulation.

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

Scenario

Referring to the multiarea IPv4 and IPv6 OSPF 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.



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On the PE5 router, there are how many IPv4 and IPv6 OSPF neighbors and how many IPv4 OSPF interfaces? (Choose three)

- A. Two ipv4 ospf neighbors
- B. Three ipv4 ospf neighbors
- C. Two ipv6 ospf neighbors
- D. Three ipv6 ospf neighbors
- E. Three ipv4 ospf interfaces
- F. Four ipv4 ospf interfaces

Correct Answer: AEF

show ip ospf neighbor # show ipv6 ospf neighbor

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