



642-885^{Q&As}

Deploying Cisco Service Provider Advanced Routing

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QUESTION 1

The IPv6 2002::/16 prefix is used in which kind of implementations?

- A. 6 RD
- B. 6 to 4
- C. NAT 64
- D. IPv6 Multicast

Correct Answer: B

QUESTION 2

In which four ways does DHCPv6 differ from DHCPv4? (Choose four.)

- A. DHCPv6 uses the same message types as DHCPv4.
- B. DHCPv4 functions without external protocols.
- C. A host discovers a DHCPv6 server by using a DHCP Discover packet.
- D. A hosts discovers a DHCPv6 server by using a DHCP Solicit packet.
- E. A DHCPv6 server replies with a DHCP Offer packet.
- F. A DHCP server replies with a DHCP Advertise message.
- G. An IPv6 host can request multiple addresses at the same time from a DHCPv6 server.
- H. An IPv6 host can request only one IP address at a time from a DHCPv6 server.

Correct Answer: BDFG

QUESTION 3

Which two actions result when a network administrator attempts to ping an IPv6 host on the LAN? (Choose two.)

- A. ARP is used to determine the MAC address of the destination host.
- B. Neighbor Discovery is used to determine the MAC address of the destination host.
- C. Neighbor Solicitation messages are sent out by the source host to determine the data link-layer address of the destination host.
- D. Neighbor Advertisement messages are sent by the source host to announce its presence on the local link.
- E. Router Solicitation messages are sent out on a specific multicast address to request the data link-layer address of the target device.



F. Router Solicitation messages are sent to the local router on the network segment to request data link-layer information about the destination host.

Correct Answer: BC

QUESTION 4


Instructions

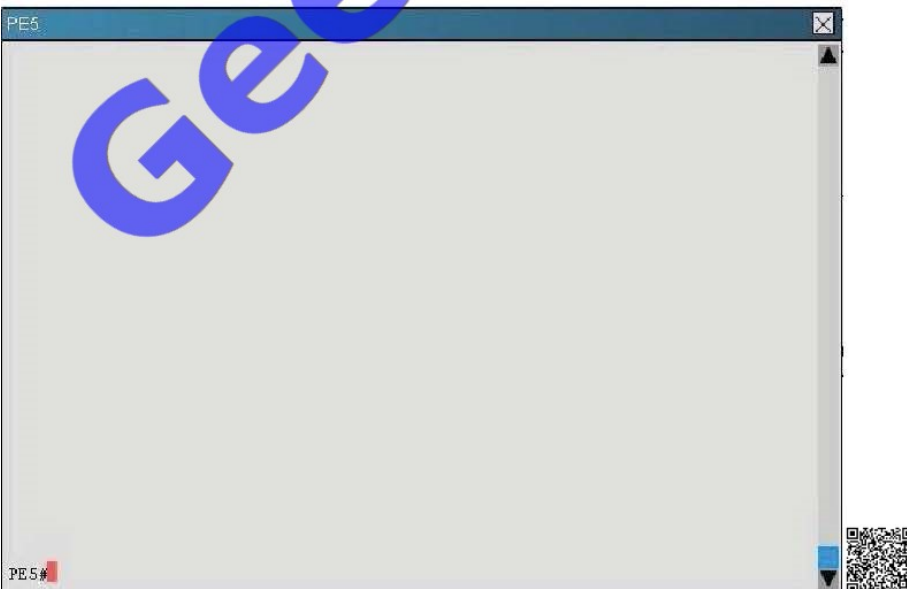
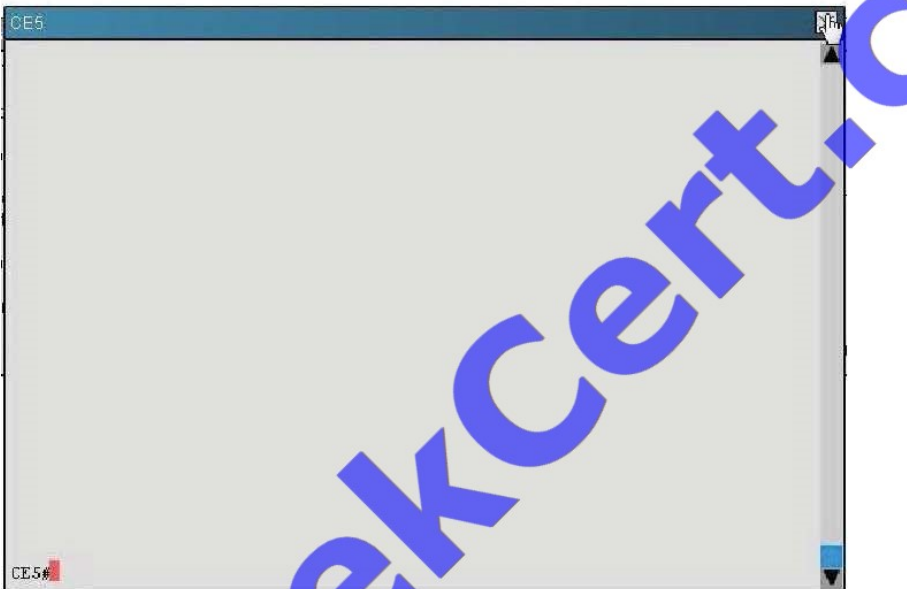
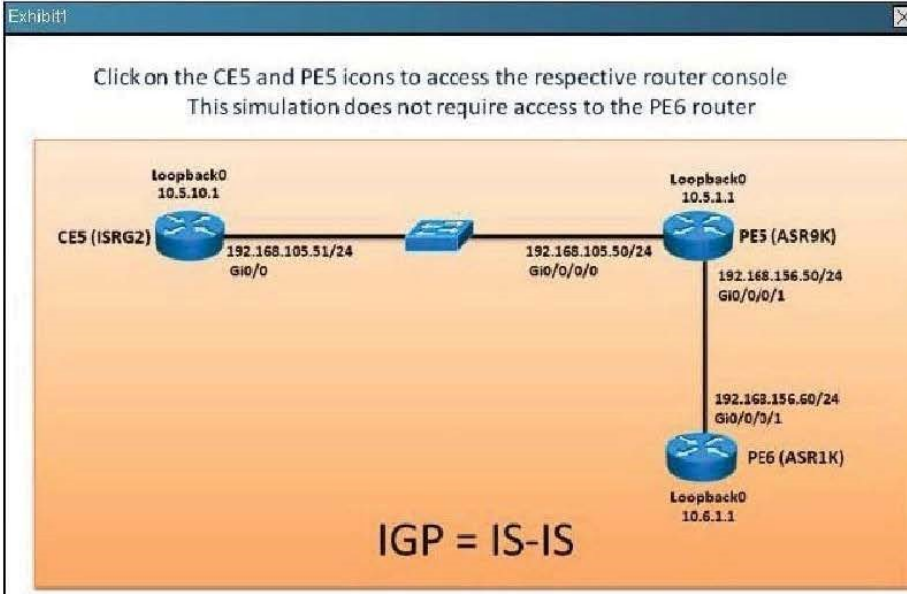
Enter the proper CLI commands and analysis the outputs on the Cisco routers to answer the multiple-choice questions. From the network topology diagram, click on each of the router icon to gain access to the console of each router. No console or enable passwords are required. There are four multiple-choice 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

Refer to the Cisco IOS-XR configuration exhibit.



```
multicast-routing
!
interface Loopback0
  ipv4 address 10.3.1.1 255.255.255.255
!
interface GigabitEthernet0/0/0/0
  ipv4 address 192.168.103.30 255.255.255.0
  no shut
!
interface GigabitEthernet0/0/0/1
  ipv4 address 192.168.156.50 255.255.255.0
  no shut
!
router isis 1
  net 49.0005.0100.0300.1001.00
  address-family ipv4 unicast
  !
  interface Loopback0
    address-family ipv4 unicast
  !
  interface GigabitEthernet0/0/0/0
    address-family ipv4 unicast
  !
  interface GigabitEthernet0/0/0/1
    address-family ipv4 unicast
  !
router pim
  address-family ipv4
  auto-rp mapping-agent Loopback0 scope 16
  auto-rp candidate-rp Loopback0 scope 16
  !
  interface Loopback0
    enable
  interface GigabitEthernet0/0/0/0
    enable
  interface GigabitEthernet0/0/0/1
    enable
  !
```

The Cisco IOS-XR router is unable to establish any PIM neighbor relationships. What is wrong with the configuration?

A. The configuration is missing: interface gi0/0/0/0 ip pim sparse-mode interface gi0/0/0/1 ip pim sparse-mode interface loopback0 ip pim sparse-mode



- B. The configuration is missing: multicast-routing address-family ipv4 interface gi0/0/0/0 enable interface gi0/0/0/1 enable
- C. The auto-rp scoping configurations should be set to 1 not 16
- D. The RP address has not been configured using the rp-address router PIM configuration command
- E. PIM defaults to dense mode operations only, so PIM sparse mode must be enabled using the pim sparse-mode router PIM configuration command

Correct Answer: B

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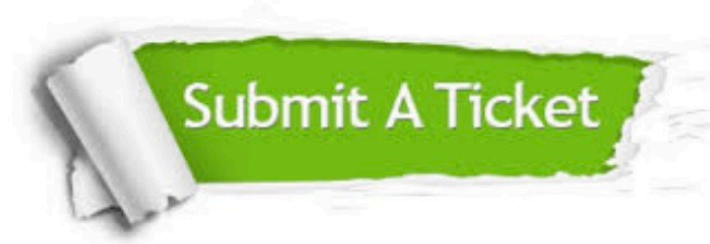
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