642-889 Q&As

Implementing Cisco Service Provider Next-Generation Edge Network Services

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QUESTION 1

In MPLS Layer 3 VPN implementations, what is used at the PEs to transform the customer IPv4 prefixes into a unique 96-bit prefix?

A. RT

B. RD

C. VC ID

D. PW ID

E. AS number

Correct Answer: B

QUESTION 2

Carrier A, a large global service provider, recently acquired two smaller providers, Carrier B in Europe and Carrier C in North America. All providers offer MPLS services to their customers and have interconnected MPLS through Carrier A. A large customer requests MPLS VPN services between its local in North America and regional locations in Europe.

After the services are established, which two results occur? (Choose two.)

A. The VPNv4 label exchange is transparent to the backbone carrier

B. Carrier A holds the internal routes only of the smaller carrier, not of the enterprise customer

C. The backbone Carrier A holds the VRF information for the enterprise customer on the CSC CE routers

D. To transport VPNv4 information, an MP-IBGP session is not required between the customer carrier routers at different POP sites

E. MPLS label exchange, which is used only for IP routing in the CSC architecture, requires only IGP and BGP

Correct Answer: AD

QUESTION 3

When configuring VPLS on the Cisco ASR 9000, which three configurations are required under the l2vpn configuration mode? (Choose three.)

A. bridge-group

B. bridge-domain

C. xconnect

D. vfi

E. encapsulation

Correct Answer: ABD

QUESTION 4

Which two methods can be used for VPLS PW signaling? (Choose two.)

A. static

B. BGP

C. IGP

D. LDP

E. RSVP

Correct Answer: BD

VPLS Discovery and Signaling

VPLS is a Layer 2 multipoint service and it emulates a LAN service across a WAN. VPLS enables service providers to interconnect several LAN segments over a packet-switched network and make them behave as a single LAN. Service providers can provide a native Ethernet access connection to customers using VPLS.

The VPLS control plane consists of two important components, autodiscovery and signaling:

- VPLS Autodiscovery eliminates the need to manually provision VPLS neighbors. VPLS Autodiscovery enables each VPLS PE router to discover other provider edge (PE) routers that are part of the same VPLS domain.
- Once the PEs are discovered, pseudowires (PWs) are signaled and established across pairs of PE routers, forming a full mesh of PWs across PE routers in a VPLS domain.

Figure 10 VPLS Autodiscovery and Signaling

L2-VPN	Multipoint	
Discovery	BGP	
Signaling Protocol	LDP	BGP
Tunneling Protocol	MPLS	

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BGP-based VPLS Autodiscovery

An important aspect of VPN technologies, including VPLS, is the ability of network devices to automatically signal information to other devices, about any association with a particular VPN. Autodiscovery requires this information to be distributed to all members of a VPN. VPLS is a multipoint mechanism for which BGP is well-suited.

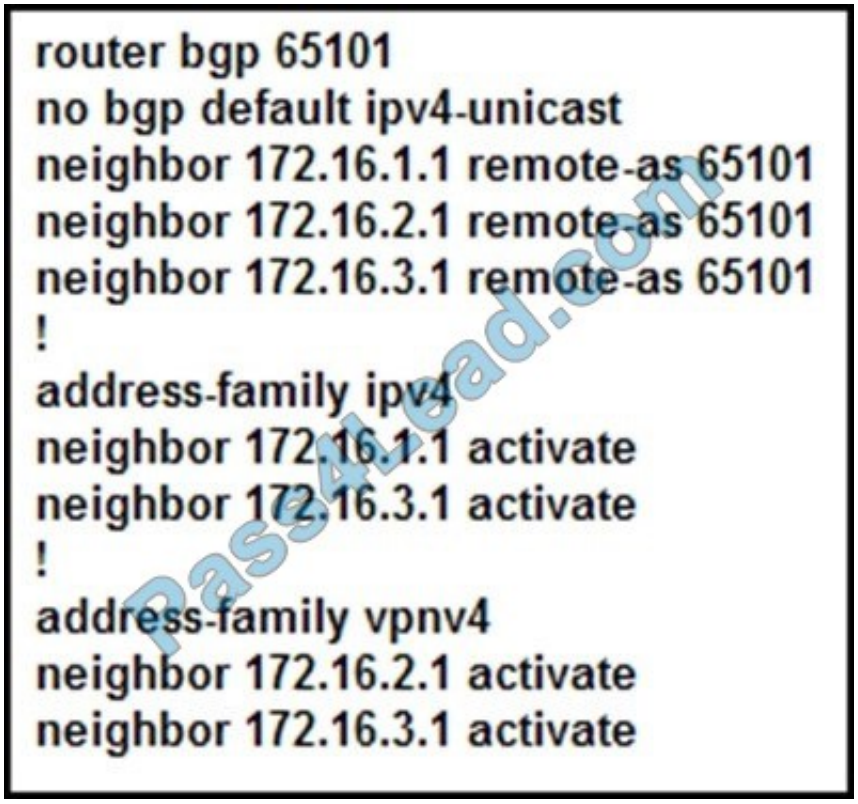
BGP-based VPLS autodiscovery eliminates the need to manually provision VPLS neighbors. VPLS autodiscovery enables each VPLS PE router to discover other provider edge (PE) routers that are part of the same VPLS domain. VPLS Autodiscovery also tracks occurrences when PE routers are added to, or removed from, the VPLS domain. When the discovery process is complete, each PE router has the information required to setup VPLS pseudowires (PWs).

BGP Auto Discovery With BGP Signaling

The implementation of VPLS in a network requires the establishment of a full mesh of PWs between the provider edge (PE) routers. The PWs can be signaled using BGP signaling.

QUESTION 5

Which statement regarding the Cisco IOS BGP configuration exhibit is correct?



A. None of the routers will receive IPv4 BGP routes.

B. Only the 172.16.2.1 and 172.16.3.1 neighbors will receive both VPNv4 routes and IPv4 BGP routes.

C. Only the 172.16.3.1 neighbor will receive both VPNv4 routes and IPv4 BGP routes.

D. All three neighbors (172.16.1.1, 172.16.2.1, and 172.16.3.1) will receive both VPNv4 routes and IPv4 BGP routes.

E. All three neighbors (172.16.1.1, 172.16.2.1, and 172.16.3.1) will receive IPv4 BGP routes.

Correct Answer: C

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