642-889^{Q&As}

Implementing Cisco Service Provider Next-Generation Edge Network Services

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QUESTION 1

When implementing VPLS on Cisco routers, which data structure resembles a virtual switch and is used for learning the MAC addresses?

A. VRF

B. VFI

C. SVI

D. BVI

Correct Answer: B

Restrictions for Implementing Virtual Private LAN Services on Cisco IOS XR Software

The following restrictions are listed for implementing VPLS:

- All attachment circuits in a bridge domain on an Engine 3 line card must be the same type (for example, port, dot1q, qinq, or qinany), value (VLAN ID), and EtherType (for example, 0x8100, 0x9100, or 0x9200). The Cisco CRS-1 router supports multiple types of attachment circuits in a bridge domain.
- The Engine 3 line cards, cannot simultaneously have attachment circuits and MPLS-enabled on any one of its interfaces. The line card cannot be Edge-facing and Core-facing at the same time. Line cards on the Cisco CRS-1 router can be Edge-facing and Core-facing at the same time.
- The line card requires ternary content addressable memory (TCAM) Carving configuration. The Cisco CRS-1 router however, does not require the TCAM Carving configuration.
- Virtual Forwarding Instance (VFI) names have to be unique, because a bridge domain can have only one VFI.
- On the Cisco CRS-1 router, a VPLS pseudowire (PW) can be configured only under VFI.
- The Cisco CRS-1 router does not support VPLS with TE core tunnels.
- A PW cannot belong to both a peer-to-peer (P2P) cross-connect group and a VPLS bridge-domain. This means that the neighboring IP address and the pseudowire ID have to be unique on the router, because the pseudowire ID is signaled to the remote provider edge.
- You cannot manually set up a PW on one PE and use auto-discovery on the other PE to configure the same PW in the other direction. The auto-discovery feature is supported only on the Cisco XR 12000 Series Router.

QUESTION 2

A network engineer is tasked to implement an AToM VPN for a given customer to emulate a Frame Relay virtual circuit over the MPLS-enabled core network. Which command enables Frame Relay to forward frames from the attachment circuit over the emulated session in regular Cisco IOS Software?

A. ip route 0.0.0.0 0.0.0.0 tailend_router_ip

B. encapsulation frame-relay

C. frame-relay switching

D. frame-relay intf-type dce

Correct Answer: C

QUESTION 3

A service provider is tasked to write up a template for the network operations center to set up a Layer 2 VPN. Which command is the first command to issue on a Cisco IOS XR router?

A. xconnect peer_ip vc_id encapsulation encapsulation_type

B. connect name_pw interface_path_id dlci_value l2transport

C. l2vpn

D. pseudowire-class class_name

Correct Answer: C

QUESTION 4

Which two options are disadvantages of MPLS Layer 3 VPNs? (Choose two.)

A. IP-only support

B. lack of scalability

C. dependency on service provider Layer 3 model

D. complex PE-CE configuration

E. less efficient than hub-and-spoke model

Correct Answer: AD

QUESTION 5

Which statement regarding this Cisco 6PE configuration is false?

```
ip cef
ipv6 cef
!
ipv6 unicast-routing
!
mpls ipv6 source-interface Loopback0
!
interface GigabitEthernet1/0
ipv6 address 2002:2::1/64
!
router bgp 65000
 no synchronization
 no bgp default ipv4-unicast
 neighbor 172.16.0.2 remote-as 65000
 neighbor 172.16.0.2 update-source Loopback0
 neighbor 2002:2::2 remote-as 65001
 !
 address-family ipv6
  neighbor 172.16.0.2 activate
  neighbor 172.16.0.2 send-label
  neighbor 2002:2::2 activate
 exit-address-family
!
no mpls ip propagate-ttl
```

A. A traceroute does not show how many hops are in the network

B. The autonomous system for neighbor 172.16.0.2 must be the customer autonomous system

C. The ipv6 cef command assigns labels to the customer router

D. The send-label keyword indicates that the IPv6 label capability is advertised to 172.16.0.2

Correct Answer: A

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