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Implementing Cisco Service Provider Next-Generation Edge Network Services

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QUESTION 1

Which BGP extended community is used to control the distribution of VPN routing information and to identify routers that may receive a set of routes that carry the community?

A. SOO

B. RT

C. opaque

D. route origin

E. RD

Correct Answer: B

Route Target is a 64-bits BGP community used for tagging prefixes. When exporting prefixes from the VRF, we add to the prefixes a Route-Target community, so when the PE in the remote site has to import prefixes into the VRF, it can easily identify which prefixes to import.

QUESTION 2

Which two statements describe advantages of H-VPLS implementation? (Choose two.)

A. H-VPLS improves the data plane scalability, which decreases the requirement for CE routers multicast forwarding frames

B. H-VPLS can encapsulate any Layer 2 protocol, which provides flexibility to the attachment circuit access technology choice

C. H-VPLS does not require to run any instance of STP due to the built-in loop prevention mechanisms

D. H-VPLS significantly reduces the amount of frame replication and forwarding by adding a hierarchical aggregation layer

E. H-VPLS addresses the VPLS scalability issues by reducing the amount of full-meshed connections to only the network provider edge routers

Correct Answer: DE

QUESTION 3

When implementing H-VPLS with QinQ access on Cisco Metro Ethernet switches, which two commands enable the QinQ tagging? (Choose two.)

A. encapsulation dot1q {customer-vlan} second-tag {sp-vlan}

B. encapsulation dot1q {sp-vlan} second-tag {customer-vlan}

C. switchport mode dot1q-tunnel

D. switchport mode trunk

E. switchport access vlan {sp-vlan}

F. switchport access vlan {customer-vlan}

Correct Answer: CE

QUESTION 4

Which Cisco IOS XR BGP configuration command is required to enable MP-BGP to carry IPv6 VPN routes?

A. address-family ipv4 unicast

B. address-family ipv6 unicast

C. address-family vpnv4 unicast

D. address-family vpnv6 unicast

Correct Answer: D

Reference: http://www.cisco.com/en/US/tech/tk872/technologies_configuration_example09186a0080b3e11d.shtml

QUESTION 5

In hierarchical VPLS implementations, which two access architectures can be used between the UPE and NPE? (Choose two.)

A. EoMPLS

B. MP-BGP

C. Frame Relay

D. 802.1ad

Correct Answer: AD

H-VPLS uses spoke connections, usually between Layer 2 switches acting as the CE and PE devices at the service provider\\'s point-of presence (POP). The spoke connections can be either an IEEE 802.1Q tagged connection or an MPLS LSP.

Reference: http://www.cisco.com/en/US/docs/switches/metro/me3600x_3800x/software/release/12.2_52_ey/configuration/guide/swmpls.html#wp1244272

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