300-515^{Q&As}

Implementing Cisco Service Provider VPN Services (SVPI)

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QUESTION 1

The CTO of a company requires the support of a network consultant to deliver an MPLS solution without resigning to a certain degree of redundancy and scalability. Which solution effectively scales to hundreds or thousands of sites?

A. L2VPN with the broadcast traffic processed at the ingress PE.

B. L3VPN with direct LSP connectivity between all PEs.

C. L2VPN by encapsulating multiple frame formats with interworking.

D. L3VPN using a hierarchical topology of N-PEs and U-PEs.

Correct Answer: D

QUESTION 2

What do routers on the network use to avoid routing loops when OSPF is running as the PE-CE routing protocol on a service provider network?

A. the AS-Override feature

B. the DN bit with type 3, 5, or 7 LSA

C. the domain tag for type 2 LSA

D. sham links to create a super backbone over the service provider network
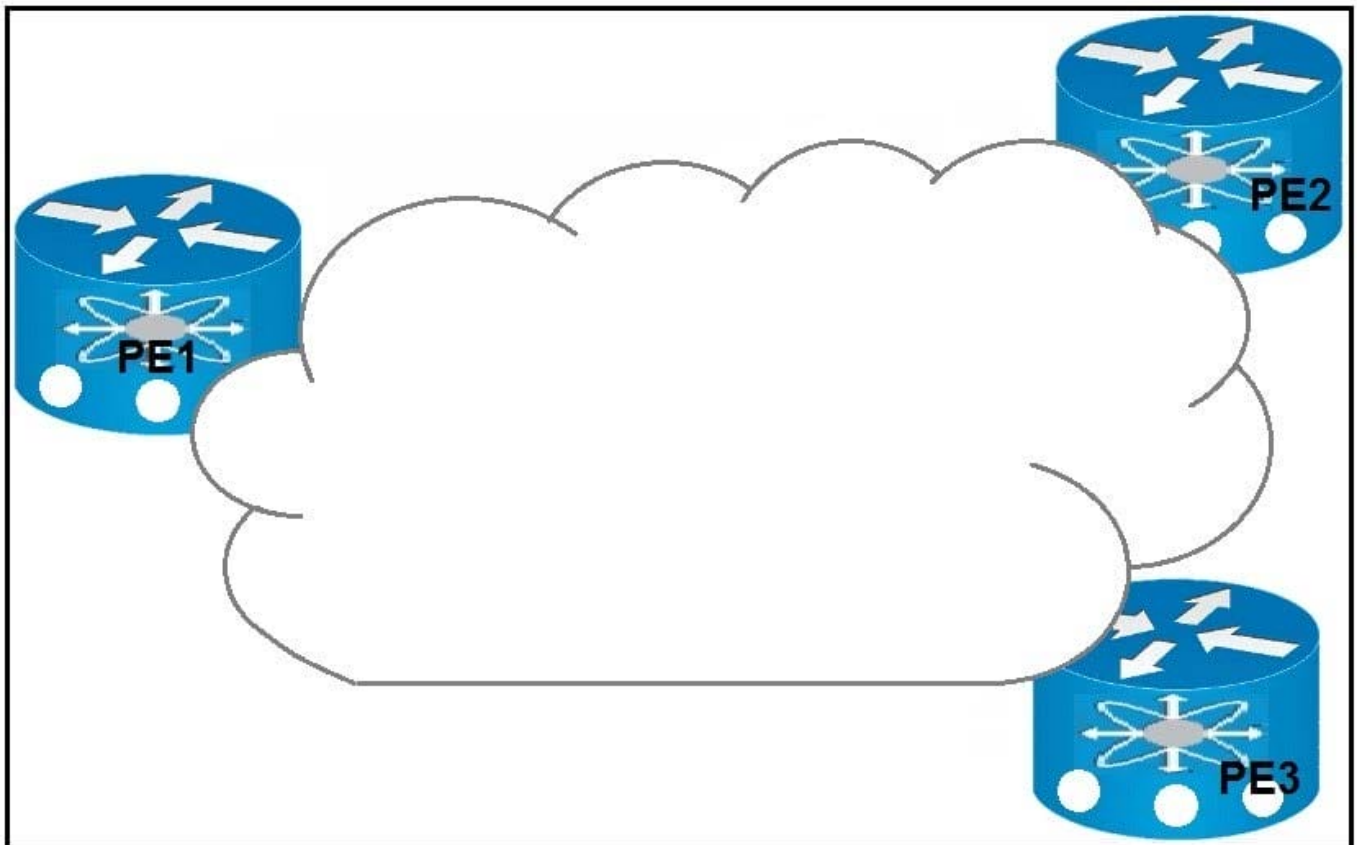
Correct Answer: B

QUESTION 3

Which mechanism reduces the network flooding caused by host ARP learning behavior?

A. ARP suppression

B. storm control

C. root guard

D. BPDU guard

Correct Answer: A

Reference: https://www.cisco.com/c/en/us/products/collateral/switches/nexus-7000-series-switches/white-paper-c11-735015.html

QUESTION 4

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Refer to the exhibit. Which result occurs when PE1 learns a new MAC address and all three PEs are enabled with EVPN native?

A. A system notification is sent to the network administrator that triggers the manual configuration of the new MAC address on PE2 and PE3.

B. The new MAC address is sent by BGP to PE2 and PE3 as a Type 2 BGP route.

C. The MAC address is entered into the CAM table and is classified for use on the native VLAN

D. The MAC address is entered into the CAM table only if it is learned on the native VLAN.

Correct Answer: B

Reference: https://www.cisco.com/c/en/us/td/docs/routers/asr9000/software/asr9k-r6-4/lxvpn/configuration/guide/b-l2vpn-cg-asr9000-64x/b-l2vpn-cg-asr9000-64x_chapter_01011.html

QUESTION 5

While troubleshooting EoMPLS configuration problems, which three parameters should an engineer match between the two ends of the pseudowire configurations? (Choose three.)

A. VLAN name

B. Xconnect group name

C. EFP subinterface number

D. pseudowire ID

E. MTU size

F. control word usage

Correct Answer: DEF

Reference: https://www.cisco.com/c/en/us/support/docs/multiprotocol-label-switching-mpls/mpls/213238-mpls-l2vpn-pseudowire.html

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