

Nokia

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Nokia Ethernet Virtual Private Network Services

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Question: 1

Which of the following statements about the EVPN data plane is FALSE?

- A. EVPN allows a service provider to deliver multiple services over a single core network.
- B. The customer data is encapsulated and then tunneled between the PE routers.
- C. EVPN-MPLS encapsulated data has a label that uniquely identifies each service.
- D. EVPN-MPLS provides services over a simple IP network.

Answer: D

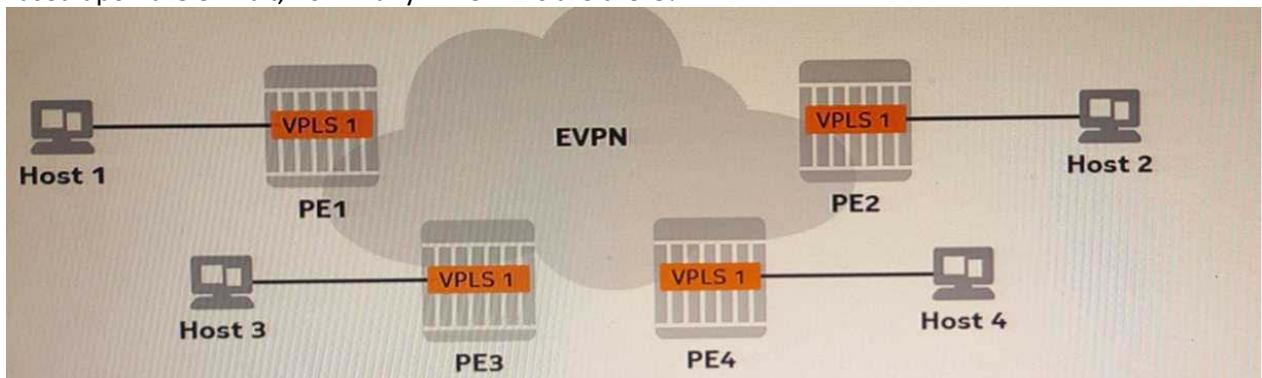
Explanation:

EVPN-MPLS provides services over an MPLS network, not a simple IP network. The customer data is encapsulated with an MPLS label that identifies the service and then tunneled between the PE routers using MPLS LSPs1.

Verified Reference: Ethernet Virtual Private Networks (EVPNs)

Question: 2

Based upon the exhibit, how many MAC-VRFs are there?



- A. 1
- B. 2
- C. 3
- D. 4

Answer: B

Explanation:

There are two MAC-VRFs in the exhibit, one for each EVI. A MAC-VRF is a logical entity that contains the

MAC forwarding information for a given EVI1.

Verified Reference: Ethernet Virtual Private Networks (EVPNs)

Question: 3

Which of the following statements about multi-homing for a Layer-2 service is TRUE?

- A. In the single-active mode, the CE requires a LAG to be configured between the CE and all attached PEs.
- B. In the single-active mode, the CE forwards traffic to all attached PEs and receives traffic from a single PE.
- C. In the all-active mode, all PEs attached to a CE can forward traffic to and from the CE.
- D. The Nokia 7750 SR supports a CE being multi-homed to a maximum of two PEs.

Answer: C

Explanation:

In the all-active mode, all PEs attached to a CE can forward traffic to and from the CE. This provides load balancing and redundancy for the CE. The CE does not require a LAG to be configured between the CE and all attached PEs1.

Verified Reference: Ethernet Virtual Private Networks (EVPNs)

Question: 4

Which of the following statements about PE-to-PE MAC address advertisement is FALSE?

- A. The service distinguisher (label or VNI) is advertised with the MAC/IP EVPN update.
- B. Route targets are used to uniquely identify routes between EVIs in the case of MAC address overlaps.
- C. A PE uses a single MP-BGP session with a remote peer to exchange the routes for all EVIs.
- D. A PE advertises locally-learned MAC addresses to remote PEs using EVPN type-2 routes.

Answer: B

Explanation:

Route targets are not used to uniquely identify routes between EVIs in the case of MAC address overlaps. Route targets are used to control the import and export of routes between different EVIs or VRFs. The service distinguisher (label or VNI) is used to uniquely identify each service1.

Verified Reference: Ethernet Virtual Private Networks (EVPNs)

Question: 5

Which of the following statements about EVPN Layer-3 services that utilize the interface-ful model is

TRUE?

- A. EVPN MAC/IP routes are used to advertise the IP prefixes of subnets attached to a VPRN.
- B. VPRN instances are interconnected using a supplementary broadcast domain (SBD) VPLS.
- C. Intra-subnet traffic is carried over the tunnels provided by the SBD VPLS.
- D. The MAC/IP routing information is used to populate the VPRN routing table at the remote PEs.

Answer: C

Explanation:

In the interface-ful model, VPRN instances are interconnected using a supplementary broadcast domain (SBD) VPLS. Intra-subnet traffic is carried over the tunnels provided by the SBD VPLS. The MAC/IP routing information is not used to populate the VPRN routing table at the remote PEs, but rather to populate the FDB of the SBD VPLS2.

Verified Reference: Nokia Ethernet Virtual Private Network Services Course | Nokia

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