Cisco
300-515

Implementing Cisco Service Provider VPN Services (300-515 SPVI)

Questions&AnswersPDF

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Question: 1

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

Answer: DEF

Reference: https://www.cisco.com/c/en/us/support/docs/multiprotocol-label-switching-mpls/mpls/213238-mpls- l2vpn-pseudowire.html
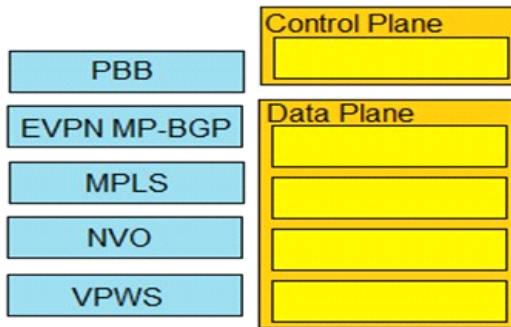
Question: 2

A network architect is troubleshooting the L2TPv3 tunneling security due to the untrusted nature of the underlaying network. Which two L2TPv3 features does the architect deploy to address the ongoing issues? (Choose two.)

A. TCP MD5 authentication
B. control message hashing
C. CHAP authentication
D. control message rate limiting
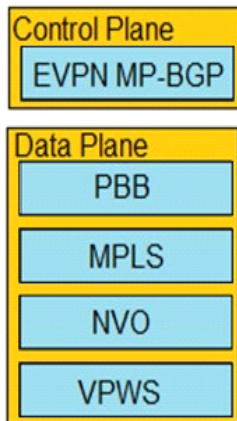E. asymmetric mutual authentication with PSK

Answer: BC

Question: 3

Drag and drop the EVPN components from the left onto the correct planes on the right.

Control Plane
- PBB
- EVPN MP-BGP
- MPLS
- NVO
- VPWS

Data Plane

Answer:

Control Plane
- EVPN MP-BGP

Data Plane
- PBB
- MPLS
- NVO
- VPWS

Reference: https://www.cisco.com/c/dam/m/en_us/network-intelligence/service-provider/digital-transformation/ knowledge-network-webinars/pdfs/0420-epn-ckn.pdf slide 8

Question: 4

What must match in the EVPN and L2VPN configuration mode when configuring EVPN native in a router?

A. interface
B. address family
C. bridge domain
D. EVI

Answer: D

Reference: https://www.cisco.com/c/en/us/td/docs/routers/asr9000/software/asr9k-r6-2/lxvpn/configuration/ guide/b-l2vpn-cg-asr9000-62x/b-l2vpn-cg-asr9000-62x_chapter_01011.html

Question: 5

An engineer is troubleshooting AToM on an IOS XE router and receives an error when creating the xconnect. Which command does he need to complete to create the xconnect in AToM?

A. encapsulation mpls

B. encapsulation 12tpv3
C. protocol 12tpv3
D. protocol none

<div style="text-align: right">**Answer: A**</div>

Question: 6

```
configure
router bgp 64520
  address-family 12vpn evpn
    neighbor 192.168.1.1

configure
12vpn
   xconnect group evpn-test
   p2p evpn12
      interface TenGigE0/1/0/1
      neighbor evpn evi 12 target 10 source 11
```

Which effect of this configuration is true?

A. It configures VPWS multihomed.
B. It configures VPWS single homed.
C. It configures an IPv4 peering with 192.168.1.1
D. It configures MPLS traffic engineering.

<div style="text-align: right">**Answer: B**</div>

Reference: https://www.ciscolive.com/c/dam/r/ciscolive/emea/docs/2019/pdf/BRKSPG-2798.pdf

Question: 7

An engineer is troubleshooting an EoMPLS circuit on a Cisco IOS XR router interface that removes a VLAN

A. interface GigabitEthernet 0/10.l2transport
encapsulation dot1q 10
rewrite ingress tag pop 1 symmetric
l2vpn xconnect group 103588
p2p 103588
interface GigabitEthernet 0/10.10
neighbor ipv4 10.10.10.2 pw-id 103588
B. interface GigabitEthernet 0/10.10
encapsulation dot1q 10
rewrite ingress tag pop 1 symmetric

l2vpn
xconnect group 103588
p2p 103588
interface GigabitEthernet 0/10.10
neighbor ipv4 10.10.10.2 pw-id 103588
C. interface GigabitEthernet 0/10.10 l2transport
encapsulation dot1q 10
l2vpn
xconnect group 103588
p2p 103588
interface GigabitEthernet 2/10.10
neighbor ipv4 10.10.10.2 pw-id 103588
D. interface GigabitEthernet 0/10.10 l2transport
encapsulation dot1q 10
rewrite ingress tag translate 1-to-1 dot1ad 10
symmetric
l2vpn
xconnect group 103588
p2p 103588
interface GigabitEthernet 0/10.10
neighbor ipv4 10.10.10.2 pw-id 103588

Answer: C

Question: 8

Refer to the exhibit.

```
interface GigabitEthernet0/1
switchport trunk allowed vlan none
switchport mode trunk
service instance 2 ethernet
  encapsulation dot1q 10
  xconnect 192.168.2.2 22 encapsulation mpls
```

Drag and drop the EVC configuration items from the left onto the correct descriptions on the right.

switchport mode trunk	It denies globally defined VLANs from egressing and ingressing the port.
service instance 2 ethernet	It allows the port to operate as an 802.1q trunk.
switchport trunk allowed vlan none	It classifies traffic under a defined process.
xconnect 192.168.2.2 22 encapsulation mpls	It allows the port to process VLAN 10 traffic in Service Instance 2.
encapsulation dot1q 10	It defines the pseudowire parameters.

Answer:

switchport trunk allowed vlan none

switchport mode trunk

service instance 2 ethernet

encapsulation dot1q 10

xconnect 192.168.2.2 22 encapsulation mpls

Question: 9

A network engineer is implementing Layer 3 MPLS VPNs on Cisco IOS/IOS XE PE routers. Which PE-to-CE routing protocol requires a separate routing process to be created for each VRF?

A. RIPv2
B. OSPF
C. BGP
D. EIGRP

Answer: B

Question: 10

Which condition must be met before an environment can support CSC?

A. The CSC-PE and CSC-CE must each be able to ping an interface in its respective global routing table.
B. The CSC-PE and the CSC-CE must support IPv6.
C. The CSC-PE and CSC-CE devices must be able to send labels to one another using BGP.
D. The CSC-CE must support OSPFv3.

Answer: C

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