



# 300-515<sup>Q&As</sup>

Implementing Cisco Service Provider VPN Services (SVPI)

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### QUESTION 1

You are writing the requirements for an MPLS L3VPN environment that uses MP-BGP between PE routers. In this environment, route targets and route distinguishers need to be advertised between the PE routers.

Which three operations meet these requirements? (Choose three.)

- A. mandatory creation of PE-to-PE BGP sessions between the outgoing interface IP addresses
- B. advertisement of standard communities, enabled on the PE-to-PE BGP neighbors
- C. creation of PE-to-PE BGP sessions between loopback IP addresses
- D. full mesh of IBGP sessions
- E. full mesh of EBGP sessions and partial mesh of IBGP sessions
- F. advertisement of extended communities, enabled on the PE-to-PE BGP neighbors

Correct Answer: CDF

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### QUESTION 2

Which two are characteristics of using a non-MPLS peer-to-peer model over a traditional overlay model? (Choose two.)

- A. The model is suited for nonredundant configurations.
- B. The configuration on a newly added site PE is updated automatically.
- C. Provider routers know the customer network topology.
- D. The customer specifies the exact site-to-site traffic profile.
- E. Routing information is exchanged between the customer router and one or a few PEs.

Correct Answer: CE

Reference: <http://etutorials.org/Networking/MPLS+VPN+Architectures/Part+2+MPLS-based+Virtual+Private+Networks/Chapter+7.+Virtual+Private+Network+VPN+Implementation+Options/Overlay+and+Peer-to-peer+VPN+Model/>

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### QUESTION 3

Which utility can you use to validate an LSP in an MPLS environment?

- A. uRPF
- B. MPLS LSP ping
- C. logging
- D. RSVP



Correct Answer: B

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#### QUESTION 4

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.

Correct Answer: C

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#### QUESTION 5

You are troubleshooting ARP connectivity issues for an Ethernet interface on an IOS XR network that runs IS-IS. You verify that the IGP protocol is running, but an ARP entry has not yet been created. Which action should you take?

- A. debug ping packets
- B. debug ARP
- C. ping the connected neighbor
- D. verify the RIB table routes

Correct Answer: C

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#### 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
```



Refer to the exhibit. 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.

Correct Answer: B

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

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### QUESTION 7

An engineer is troubleshooting an EoMPLS circuit on a Cisco IOS XR router interface that removes a VLAN from the distribution layer. Which configuration should the engineer apply in order to accomplish the task?

- 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

Correct Answer: C

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### QUESTION 8

What is the primary function of a VRF on a router?

- A. It enables the router to support multiple separate routing tables, which allows the device to handle overlapping IP addresses.
- B. It enables a router to run BGP and a distance vector routing protocol at the same time, which allows it to serve as a VPN endpoint between remote sites.
- C. It enables a router to configure VLANs locally, which provides segregation between networks.
- D. It enables the router to provide faster switching through the network by using labels to identify the input and output interfaces for neighbor routers.

Correct Answer: A

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### QUESTION 9

With Layer 3 MPLS VPN implementations on Cisco IOS XR PE routers, an interface is assigned to a VRF using the vrf command in which configuration mode?

- A. RP/0/RP0/CPU0:PE(config-bgp)#
- B. RP/0/RP0/CPU0:PE(config-if)#
- C. RP/0/RP0/CPU0:PE(config-bgp-af)#
- D. RP/0/RP0/CPU0:PE(config-vrf)#

Correct Answer: B

Reference: [https://www.cisco.com/c/en/us/td/docs/ios\\_xr\\_sw/iosxr\\_r3-7/mpls/configuration/guide/gc37v3.html](https://www.cisco.com/c/en/us/td/docs/ios_xr_sw/iosxr_r3-7/mpls/configuration/guide/gc37v3.html)

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### QUESTION 10

While troubleshooting an AToM L2VPN service, a network consultant notices that the AC Layer 2 encapsulations are different. Which action should the consultant take in order to make the MPLS L2VPN work?

- A. tag-rewrite on the ingress and egress PE router
- B. interworking IP configuration on the last PE router before label disposition
- C. nonrouted interworking setup to properly translate only the Layer 2 information from the AC
- D. interworking IP configuration on both the AC terminations on the PEs

Correct Answer: D

Reference: [https://www.cisco.com/c/en/us/td/docs/ios-xml/ios/mp\\_l2\\_vpns/configuration/xe-16-11/mp-l2-vpns-xe-16-11-book/l2vpn-interworking.html](https://www.cisco.com/c/en/us/td/docs/ios-xml/ios/mp_l2_vpns/configuration/xe-16-11/mp-l2-vpns-xe-16-11-book/l2vpn-interworking.html)

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### QUESTION 11



```
interface Loopback0
  ip address 1.1.1.1 255.255.255.255
  ip ospf 1 area 0
!
interface GigabitEthernet0/1/0
  ip address 10.0.2.1 255.255.255.252
!
service instance 101 ethernet
  encapsulation dot1q 101
  rewrite ingress tag pop 1 symmetric

  12vpn evpn instance 100 point-to-point
!
  vpws context vc100
  service target 2 source 1
  member GigabitEthernet0/1/0 service-instance 101
!
interface GigabitEthernet0/1/1
  ip address 10.0.1.1 255.255.255.0
  ip ospf 1 area 0
  mpls ip
!
router bgp 65500
  bgp router-id 1.1.1.1
  neighbor 2.2.2.2 remote-as 65501
  neighbor 2.2.2.2 update-source Loopback0
!
  address-family ipv4
    neighbor 2.2.2.2 activate
  exit-address-family
!
  address-family 12vpn evpn
    neighbor 2.2.2.2 activate
  exit-address-family
!
  12vpn evpn instance 100 point-to-point
!
  vpws context vc100
  service target 2 source 1
  member GigabitEthernet0/0/0
!
```



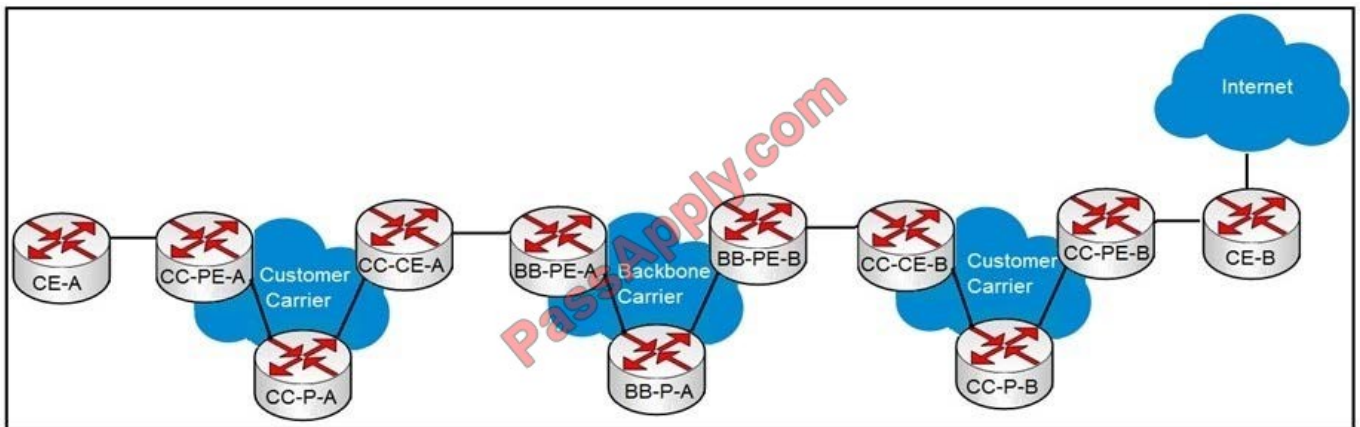
Refer to the exhibit. An engineer is trying to configure an EVPN VPWS. What is the issue with this configuration?

- A. The member in the VPWS context should be the PE-facing interface.
- B. The 12vpn evpn command should be instance 101.
- C. Interface GigabitEthernet0/1/0 should not have any IP address.
- D. The service instance and the EVPN instance are different.

Correct Answer: C

Reference: [https://www.cisco.com/c/en/us/td/docs/ios-xml/ios/mp\\_l2\\_vpns/configuration/xs/asr903/16-7-1/b-mpls-l2-vpns-xe-16-7-asr900/evpn\\_vpws\\_single\\_homed.pdf](https://www.cisco.com/c/en/us/td/docs/ios-xml/ios/mp_l2_vpns/configuration/xs/asr903/16-7-1/b-mpls-l2-vpns-xe-16-7-asr900/evpn_vpws_single_homed.pdf)

### QUESTION 12



Refer to the exhibit. A customer carrier running MPLS VPN wants to utilize a backbone carrier to forward traffic and exchange VPNv4 prefixes between the two customer carrier networks depicted. Which two sets of routers must establish MPiBGP sessions? (Choose two.)

- A. BB-PE-A and CC-PE-B
- B. CC-PE-A and CC-PE-B
- C. BB-PE-A and BB-PE-B
- D. CC-PE-A and BB-PE-A
- E. BB-PE-A and BB-P-A
- F. CC-PE-A and CC-P-A

Correct Answer: BC

Reference: [https://www.cisco.com/c/en/us/td/docs/ios-xml/ios/mp\\_ias\\_and\\_csc/configuration/12-2sx/mp-ias-and-csc-12-2sx-book/mp-carrier-bgp.html](https://www.cisco.com/c/en/us/td/docs/ios-xml/ios/mp_ias_and_csc/configuration/12-2sx/mp-ias-and-csc-12-2sx-book/mp-carrier-bgp.html)



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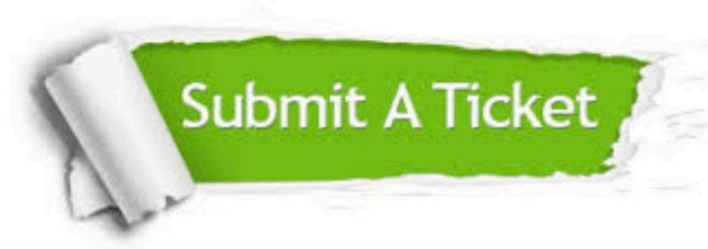
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