



# 642-889<sup>Q&As</sup>

Implementing Cisco Service Provider Next-Generation Edge Network Services

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**QUESTION 1**

Which Carrier Ethernet service provides point-to-point EVC-based connectivity?

- A. E-Tree
- B. E-LAN
- C. E-Line
- D. E-Access

Correct Answer: C

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**QUESTION 2**

When implementing VPLS on Cisco IOS XR routers, the VPLS PW neighbors can be statically defined under which configuration mode?

- A. bridge group
- B. bridge-domain
- C. vfi
- D. mpls ldp
- E. l2transport

Correct Answer: C

**Restrictions for Implementing Virtual Private LAN Services on Cisco IOS XR Software**

The following restrictions are listed for implementing VPLS:

- All attachment circuits in a bridge domain on an Engine 3 line card must be the same type (for example, port, dot1q, QinQ, or QinQ), value (VLAN ID), and EtherType (for example, 0x8100, 0x9100, or 0x9200). The Cisco CRS-1 router supports multiple types of attachment circuits in a bridge domain.
  - The Engine 3 line cards cannot simultaneously have attachment circuits and MPLS-enabled on any one of its interfaces. The line card cannot be Edge-facing and Core-facing at the same time. Line cards on the Cisco CRS-1 router can be Edge-facing and Core-facing at the same time.
  - The line card requires ternary content addressable memory (TCAM) Carving configuration. The Cisco CRS-1 router however, does not require the TCAM Carving configuration.
  - Virtual Forwarding Instance (VFI) names have to be unique, because a bridge domain can have only one VFI.
  - On the Cisco CRS-1 router, a VPLS pseudowire (PW) can be configured only under VFI.
  - The Cisco CRS-1 router does not support VPLS with TE core tunnels.
  - A PW cannot belong to both a peer-to-peer (P2P) cross-connect group and a VPLS bridge-domain. This means that the neighboring IP address and the pseudowire ID have to be unique on the router, because the pseudowire ID is signaled to the remote provider edge.
  - You cannot manually set up a PW on one PE and use auto-discovery on the other PE to configure the same PW in the other direction. The auto-discovery feature is supported only on the Cisco XR 12000 Series Router.
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**QUESTION 3**

Which MP-BGP address family must be configured to use VPLS autodiscovery in a Cisco IOS XR router?

- A. address-family l2vpn vpls-vpws
- B. address-family vpv4 unicast
- C. address-family ipv4 mdt
- D. address-family ipv4 tunnel
- E. address-family vpls vfi

Correct Answer: A

Reference: [http://www.cisco.com/en/US/docs/ios/12\\_2sr/12\\_2srb/feature/guide/srbgpl2v.html](http://www.cisco.com/en/US/docs/ios/12_2sr/12_2srb/feature/guide/srbgpl2v.html)

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**QUESTION 4**

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.

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**QUESTION 5**

Which service can be used to extend the same broadcast domain across the WAN to multiple customers?

- A. EVP-TREE
- B. E-LINE
- C. EPL
- D. EVPL

Correct Answer: A

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**QUESTION 6**

A customer wants two separated sites to be connected via a pseudo-wire. Which solution provides the simplest implementation?

- A. AToM
- B. Layer 3 VPN
- C. VPLS
- D. GETVPN

Correct Answer: A

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**QUESTION 7**

Which statement regarding this Cisco 6PE configuration is false?

```
ip cef
ipv6 cef
!
ipv6 unicast-routing
!
mpls ipv6 source-interface Loopback0
!
interface GigabitEthernet1/0
ipv6 address 2002:2::1/64
!
router bgp 65000
no synchronization
no bgp default ipv4-unicast
neighbor 172.16.0.2 remote-as 65000
neighbor 172.16.0.2 update-source Loopback0
neighbor 2002:2::2 remote-as 65001
!
address-family ipv6
neighbor 172.16.0.2 activate
neighbor 172.16.0.2 send-label
neighbor 2002:2::2 activate
exit-address-family
!
no mpls ip propagate-ttl
```

- A. A traceroute does not show how many hops are in the network



- B. The autonomous system for neighbor 172.16.0.2 must be the customer autonomous system
- C. The ipv6 cef command assigns labels to the customer router
- D. The send-label keyword indicates that the IPv6 label capability is advertised to 172.16.0.2

Correct Answer: A

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#### QUESTION 8

A customer is connecting to a Cisco IOS XR PE device via BGP. The peering session is up and the customer is advertising routes, but the provider is not receiving any. Which issue is the most likely cause?

- A. The IOS XR device drops inbound routing updates on eBGP peers without an inbound route-policy.
- B. The IOS XR device requires as-override on all eBGP customer peers.
- C. The IOS XR device requires labeled-unicast peering sessions to eBGP customers.
- D. The IOS XR device drops inbound routing updates on eBGP peers that do not send extended communities.

Correct Answer: A

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#### QUESTION 9

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 vpv4 unicast
- D. address-family vpv6 unicast

Correct Answer: D

Reference: [http://www.cisco.com/en/US/tech/tk872/technologies\\_configuration\\_example09186a0080b3e11d.shtml](http://www.cisco.com/en/US/tech/tk872/technologies_configuration_example09186a0080b3e11d.shtml)

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#### QUESTION 10

Which sentence describes the primary difference between E-Line and E-Lan?

- A. An E-Line is used to connect exactly two UNIs, and an E-LAN can connect more than two UNIs
- B. An E-Line serves as the foundation for a multicast network, and an E-LAN is the foundation for a broadcast network
- C. An E-Line is used for multipoint connections, and an E-LAN is used for point-to-point connections
- D. An E-LAN provides private Internet service, and an E-Line provides public MPLS services



Correct Answer: A

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#### QUESTION 11

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

Correct Answer: B





	Command or Action	Purpose
Step 1	<code>configure</code>  Example: RP/0/RP0/CPU0:router# configure	Enters global configuration mode.
Step 2	<code>interface type instance</code>  Example: RP/0/RP0/CPU0:router (config)# interface pos 0/3/0/0	Enters interface configuration mode.
Step 3	<code>vrf vrf-name</code>  Example: RP/0/RP0/CPU0:router (config-if)# vrf vrf_A	Configures a VRF instance and enters VRF configuration mode.
Step 4	<code>ipv4 address ipv4-address mask</code>  Example: RP/0/RP0/CPU0:router (config-if)# ipv4 address 192.168.1.27 255.255.255.0	Configures a primary IPv4 address for the specified interface.
Step 5	<code>end</code> or <code>commit</code>  Example: RP/0/RP0/CPU0:router (config-if)# end or RP/0/RP0/CPU0:router (config-if)# commit	<p>Saves configuration changes.</p> <ul style="list-style-type: none"><li>When you issue the <b>end</b> command, the system prompts you to commit changes: Uncommitted changes found, commit them before exiting(yes/no/cancel)? [cancel]:</li></ul> <ul style="list-style-type: none"><li>Entering <b>yes</b> saves configuration changes to the running configuration file, exits the configuration session, and returns the router to EXEC mode.</li><li>Entering <b>no</b> exits the configuration session and returns the router to EXEC mode without committing the configuration changes.</li><li>Entering <b>cancel</b> leaves the router in the current configuration session without exiting or committing the configuration changes.</li></ul> <ul style="list-style-type: none"><li>Use the <b>commit</b> command to save the configuration changes to the running configuration file and remain within the configuration session.</li></ul>

**QUESTION 12**

Which VPN technology uses the Group Domain of Interpretation as the keying protocol and IPsec for encryption that is often deployed over a private MPLS core network?

- A. DMVPN
- B. GET VPN



C. SSL VPN

D. L2TPv3

Correct Answer: B

Reference: [http://www.cisco.com/en/US/prod/collateral/iosswrel/ps6537/ps6586/ps6635/ps7180/deployment\\_guide\\_c07\\_554713.html](http://www.cisco.com/en/US/prod/collateral/iosswrel/ps6537/ps6586/ps6635/ps7180/deployment_guide_c07_554713.html)

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