642-889^{Q&As}

Implementing Cisco Service Provider Next-Generation Edge Network Services

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QUESTION 1

Which three options are features of MPLS Layer 2 VPNs? (Choose three.)

A. Routing occurs on customer devices.

B. Routing occurs on service provider and customer devices.

C. Customer sites appear to be on the same LAN.

D. Customer sites appear to be on different LANs in the same routing domain.

E. A routing protocol must be configured between the CE and PE device.

F. Traffic between CE and PE is forwarded in Layer 2 format.

Correct Answer: ACF

QUESTION 2

When implementing a Layer 2 transport subinterface on a Cisco IOS XR router, which encapsulation option is used to match any packets that are not matched by any other service instances?

A. default

B. untagged

C. any

D. tag

Correct Answer: A

Command	Description
encapsulation dot1q	Defines the matching criteria to map 802.1Q frames ingress on an interface to the appropriate service instance.
encapsulation dot1ad dot1q	Defines the matching criteria to be used in order to map single-tagged 802.1ad frames ingress on an interface to the appropriate service instance.
encapsulation dot1q second-dot1q	Defines the matching criteria to map Q-in-Q ingress frames on an interface to the appropriate service instance.
encapsulation untagged	Defines the matching criteria to map untagged ingress Ethernet frames on an interface to the appropriate service instance.

encapsulation default

To configure the default service instance on a port, use the **encapsulation default** command in the Interface configuration mode. To delete the default service instance on a port, use the **no** form of this command.

encapsulation default

no encapsulation default

Syntax Description

This command has no keywords or arguments.

Command Default

No default service instance is configured on the port.

Command Modes

Interface configuration

Command History

Release	Modification
Release 3.7.2	This command was introduced.

Usage Guidelines

To use this command, you must be in a user group associated with a task group that includes the proper task IDs. If you suspect user group assignment is preventing you from using a command, contact your AAA administrator for assistance.

If the default service instance is the only one configured on a port, the **encapsulation default** command matches all ingress frames on that port. If the default service instance is configured on a port that has other non-default service instances, the **encapsulation default** command matches frames that are unmatched by those non-default service instances (anything that does not meet the criteria of other services instances on the same physical interface falls into this service instance).

Only a single default service instance can be configured per interface. If you attempt to configure more than one default service instance per interface, the **encapsulation default** command is rejected.

Only one encapsulation command must be configured per service instance.

QUESTION 3

Which option is the minimal configuration required inside the L2VPN section of a Cisco IOS XR PE router to activate VPLS functionality?

A. l2vpnbridge group testbridge-domain testinterface TenGigE0/0/0/1.30!vfi testvpn-id 600autodiscovery bgprd 10.10.10.1:30route-target 1:300signaling-protocol bgpve-id 10

B. l2vpnbridge group testbridge-domain testinterface TenGigE0/0/0/1.30!vfi testneighbor 10.10.10.2 pw-id 1400mpls static label local 1400 remote 1500

C. l2vpnbridge group testbridge-domain testinterface TenGigE0/0/0/1.30!vfi testneighbor 10.10.10.2 pw-id 1400

D. l2vpnbridge group testbridge-domain testinterface TenGigE0/0/0/1.30!vfi testvpn-id 600autodiscovery bgprd 10.10.10.1:30route-target 1:300signaling-protocol bgp E. l2vpnbridge group testbridge-domain testvfi testautodiscovery bgprd 10.10.10.1:30route-target 1:300signaling-protocol bgpve-id 10

Correct Answer: C

QUESTION 4

Instructions ☒

Enter the proper CLI commands and analysis the outputs on the Cisco routers to answer the multiple-choice questions.

From the network topology diagram, click on the router icon to gain access to the console of the router.

No console or enable passwords are required.

There are four multiple-choice questions with this task. Be sure to answer all four questions before selecting the Next button.

Not all the CLI commands or commands options are supported or required for this simulation.
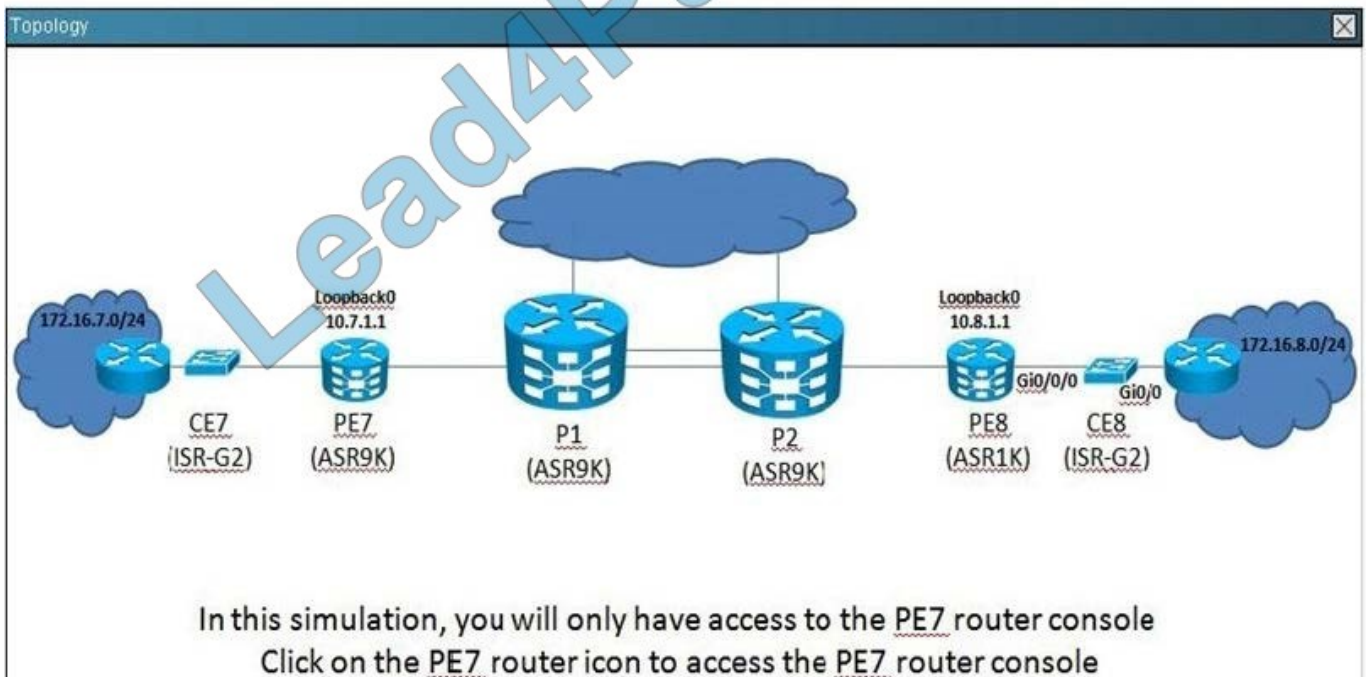
For example, the show running-config command is NOT supported in this simulation.

All the devices in this simulation have been pre-configured and you are not required to enter in any configurations.

Scenario ☒

Referring to the network topology diagram shown in the exhibit, use the proper CLI commands on PE7 router and interpret the supported CLI commands outputs to answer the four multiple choice questions.

The PE7 router is an ASR9K router.

Topology ☒

In this simulation, you will only have access to the PE7 router console
Click on the PE7 router icon to access the PE7 router console

```
RP/0/RSP0/CPU0:PE7
```

```
RP/0/RSP0/CPU0:PE7#
```

On PE7, what is the pseudowire ID that connects to the 10.8.1.1 neighbor?

A. 70

B. 80

C. 123

D. 0x840001

E. 0x4000080

Correct Answer: C

#show vfi

QUESTION 5

A customer needs Internet and MPLS services from the service provider and needs to ensure traffic from the Internet network does not constrain MPLS traffic. Which shared MPLS/Internet service type best accommodates this requirement?

A. partial separation

B. full separation

C. Multisite Internet Access

D. Internet tunnel over MPLS

Correct Answer: B

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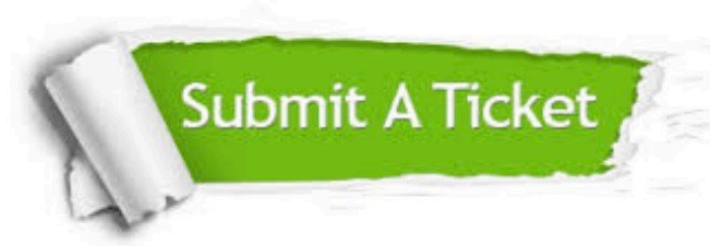
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