642-887^{Q&As}

Implementing Cisco Service Provider Next-Generation Core Network Services

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QUESTION 1

What is the term that is used for the label that an LSR assigns and distributes to other LSRs in MPLS?

A. Local

B. Remote

C. Explicit

D. Explicit Null

E. Aggregate

Correct Answer: A

QUESTION 2

Which three mechanisms are used to implement MPLS TE? (Choose three.)

A. tunnel interface

B. CSPF

C. RSVP

D. LDP

E. MP-BGP

Correct Answer: ABC

Constrained-Based Shortest Path First (CSPF).

Resource Reservation Protocol - Traffic Engineering is an extension of the resource reservation protocol (RSVP) for traffic engineering.

QUESTION 3

When configuring class-based WRED on Cisco routers, which WRED parameter is not user configurable on a Cisco IOS XR but is user configurable on a Cisco IOS and IOS XE?

A. the ingress or egress direction where the class-based WRED policy will be applied

B. the maximum threshold

C. the minimum threshold

D. the mark probability denominator

Correct Answer: D

QUESTION 4

Scenario: From PE8 router, what is the label action used to reach the P2 loopback 0 interface 10.0.2.1/32?

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.
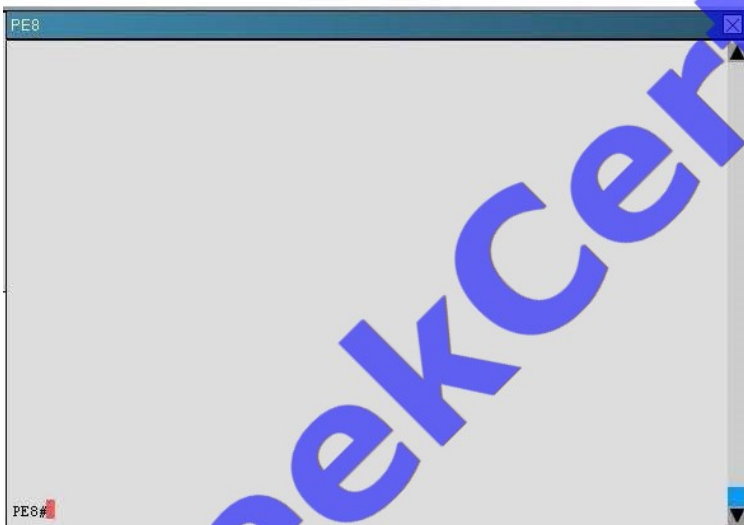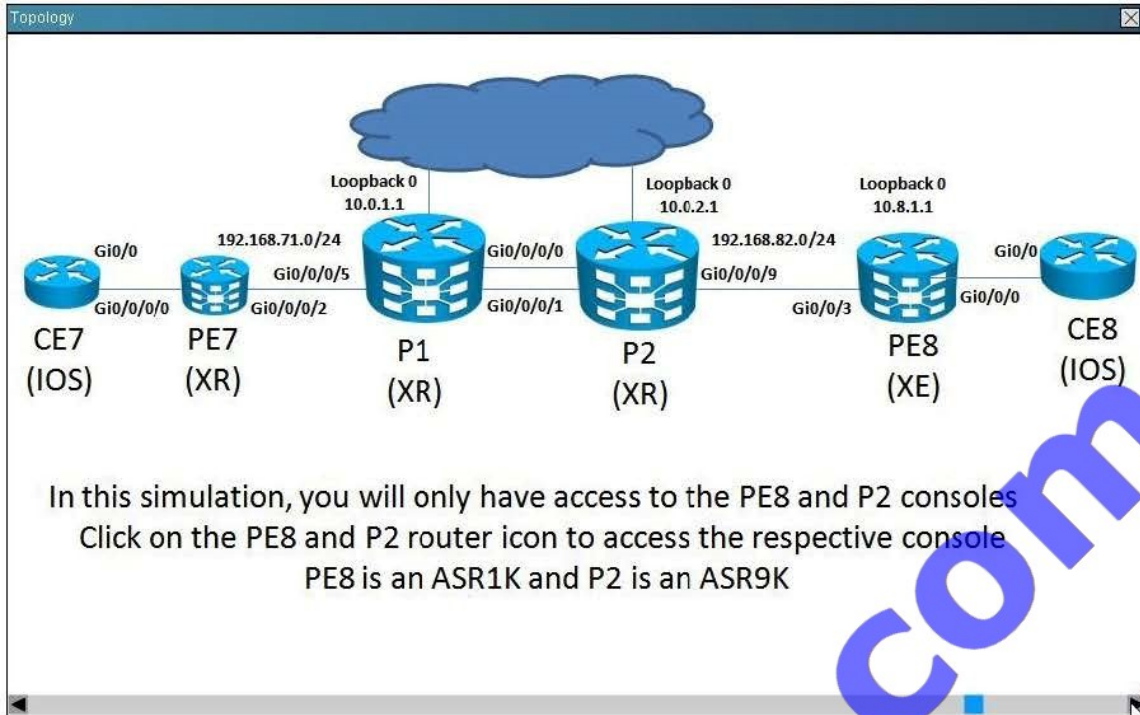
For example, the show running-config command is NOT supported in this simulation.

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 the PE8 and P2 routers and interpret the supported CLI commands outputs to answer the four multiple choice questions.

Topology

Loopback 0
10.0.1.1

Loopback 0
10.0.2.1

Loopback 0
10.8.1.1

192.168.71.0/24

Gi0/0/0

192.168.82.0/24

Gi0/0

Gi0/0

Gi0/0/0/5

Gi0/0/0/9

Gi0/0/0/0

Gi0/0/0/0

Gi0/0/0/2

Gi0/0/0/1

Gi0/0/3

Gi0/0/0

CE7
(IOS)

PE7
(XR)

P1
(XR)

P2
(XR)

PE8
(XE)

CE8
(IOS)

In this simulation, you will only have access to the PE8 and P2 consoles
Click on the PE8 and P2 router icon to access the respective console
PE8 is an ASR1K and P2 is an ASR9K

PE8

PE8#

RP/0/RSP0/CPU0:P2

RP/0/RSP0/CPU0:P2#

A. Swap label 35 with label 16004

B. Push label 16004

C. Pop label 35

D. Pop label 16009

E. Push Label 16009

F. Swap label 35 with label 16009

Correct Answer: C

Explanation: show mpls forwarding-table , find prefix 10.0.2.1 and you will see there under outgoing Label "Pop Label" (This is actually logic because the prefix is directly connected and therefore the packet will forward without label). If the router should forward any packet to that prefix, the packet should be received with Local label on PE8 (Local Label = 35), the router will remove it and forward it without Label.

QUESTION 5

An engineer looks at packet captures and sees that the MPLS header field of a packet indicates a bottom of stack field of 0. What can the engineer conclude from this information?

A. The packet is an AToM packet

B. One label is on the packet

C. At least one more MPLS label is on the packet

D. No labels are on the packet

Correct Answer: C

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