



642-887^{Q&As}

Implementing Cisco Service Provider Next-Generation Core Network Services

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QUESTION 1

Which configuration fulfills the requirement of configuring LDP with Cisco Nonstop Forwarding on a router with 5 minutes time to hold the forwarding table information and 1 minute retry timer value for an LDP connection?

- A. mpls ldp graceful-restart graceful-restart forwarding state-holdtime 5 graceful-restart reconnect-timeout 1 interface GigabitEthernet0/0/0/0 !
- B. mpls ldp graceful-restart graceful-restart forwarding state-holdtime 300 graceful-restart reconnect-timeout 60 interface GigabitEthernet0/0/0/0 !
- C. mpls ldp nsr graceful-restart graceful-restart forwarding state-holdtime 300 graceful-restart reconnect-timeout 60 interface GigabitEthernet0/0/0/0 !
- D. mpls ldp nsr graceful-restart graceful-restart forwarding state-holdtime 5 graceful-restart reconnect-timeout 1 interface GigabitEthernet0/0/0/0 !

Correct Answer: B

QUESTION 2

A recent analysis of a service provider network infrastructure revealed the necessity to reinforce bandwidth control over all the 5 Mbps residential customer contracts. Which option is a viable solution to rate limit customer's bandwidth both upstream and downstream?

- A. class-based policing
- B. committed access rate on a per interface basis
- C. reserving 5 Mbps on Cisco MPLS TE tunnels that connect customers
- D. setting customer Ethernet links to 10 Mbps half-duplex

Correct Answer: C

QUESTION 3

Scenario: From the PE8 router, how many total prefixes for have an incoming local label assigned (including the imp-null)?



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.

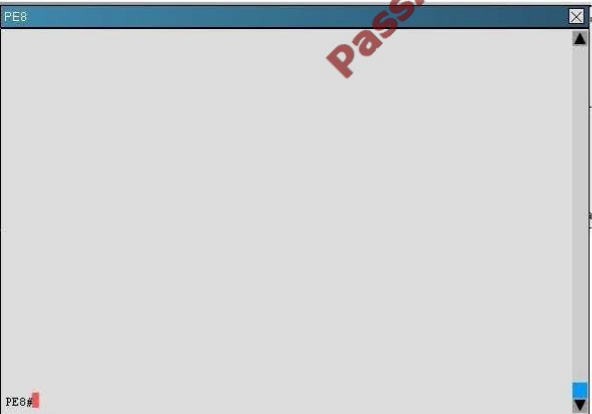
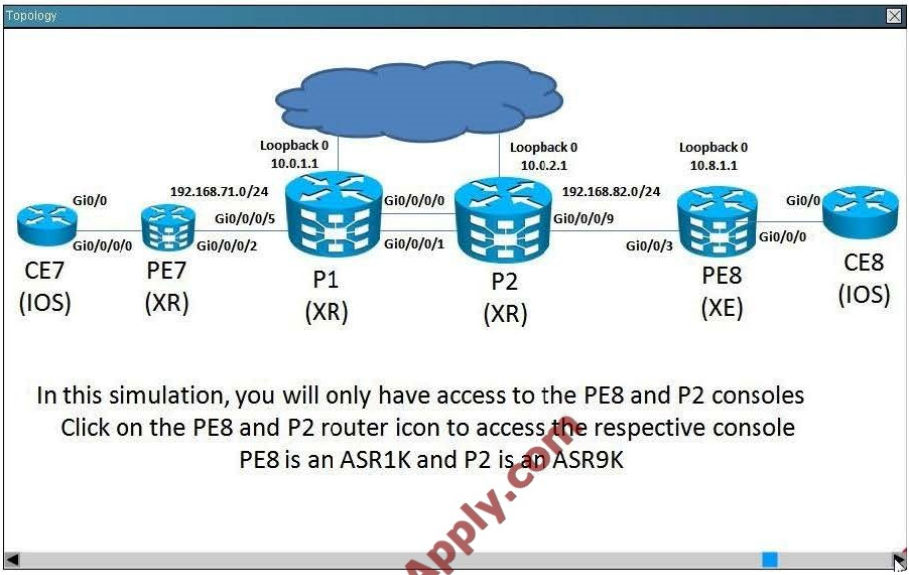
Not all the CLI commands or commands options are supported or required for this simulation.

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.





A. 45

B. 21

C. 66

D. 22

Correct Answer: B

Explanation: On PE8 issue: show mpls ip binding summary and look at "assigned in labels". That value is the correct answer NOT "learned out label".



Router# show mpls forwarding-table

Local Label	Outgoing Label or VC	Prefix or Tunnel Id	Bytes switched	label	Outgoing interface	Next Hop
26	No Label	10.253.0.0/16	0		Et4/0/0	10.27.32.4
28	1/33	10.15.0.0/16	0		AT0/0.1	point2point
29	Pop Label	10.91.0.0/16	0		Hs5/0	point2point
	1/36	10.91.0.0/16	0		AT0/0.1	point2point
30	32	10.250.0.97/32	0		Et4/0/2	10.92.0.7
	32	10.250.0.97/32	0		Hs5/0	point2point
34	26	10.77.0.0/24	0		Et4/0/2	10.92.0.7
	26	10.77.0.0/24	0		Hs5/0	point2point
35	No Label[T]	10.100.100.101/32	0		Tu301	point2point
36	Pop Label	10.1.0.0/16	0		Hs5/0	point2point
	1/37	10.1.0.0/16	0		AT0/0.1	point2point

Router# show mpls ldp bindings

```

10.0.0.0/8, rev 9
  local binding: label: imp-null
  remote binding: lsr: 10.10.0.55:0, label: 17
  remote binding: lsr: 10.66.0.66:0, label: 18
  remote binding: lsr: 10.0.0.44:0, label: imp-null
172.16.0.0/8, rev 17
  local binding: label: 19
  remote binding: lsr: 10.0.0.55:0, label: imp-null
  remote binding: lsr: 10.66.0.66:0, label: 16
  remote binding: lsr: 10.0.0.44:0, label: imp-null
192.168.0.66/32, rev 19
  local binding: label: 20
  remote binding: lsr: 10.0.0.55:0, label: 19
  remote binding: lsr: 10.66.0.66:0, label: imp-null
  remote binding: lsr: 10.0.0.44:0, label: 18
.
.
.

```

Router# show mpls ip binding summary

Total number of prefixes: 53

Generic label bindings

prefixes	assigned in labels	learned out labels
53	53	51

ATM label bindings summary

interface	total	active	local	remote	Bwait	Rwait	IFwait
ATM1/0.8	47	47	40	7	0	0	0

Router#

QUESTION 4

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 5

Which three network services can be implemented using MPLS within the service provider IP NGN core? (Choose three.)

- A. Layer 2 VPNs
- B. Layer 3 VPNs
- C. traffic engineering
- D. IntServ traffic engineering tunnels
- E. encrypted LSPs

Correct Answer: ABC

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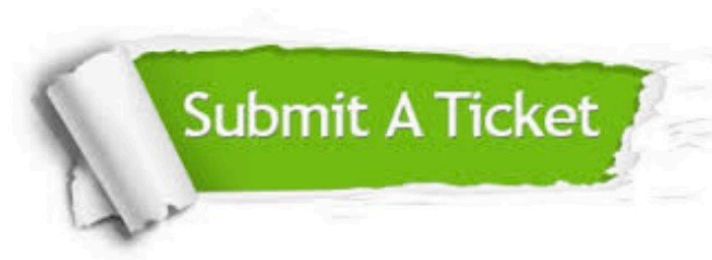
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