



642-887^{Q&As}

Implementing Cisco Service Provider Next-Generation Core Network Services

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QUESTION 1

A customer MPLS domain recently required an excessive time to reconverge. In response, a high availability solution will be deployed. Which command set should be issued to improve LDP high availability on IOS XE instances?

- A. `mpls ldp`
`interface type slot/subslot/port`
`commit`
`!`
`graceful-restart`
`end`
`!`
- B. `ip cef distributed`
`!`
`mpls label protocol tdp`
`mpls ldp logging neighbor-changes`
`mpls ldp graceful-restart`
`!`
`interface type slot/subslot/port`
`mpls ip`
`!`
- C. `redundancy`
`mode sso`
`!`
`ip cef distributed`
`mpls label protocol ldp`
`mpls ldp logging neighbor-changes`
`mpls ldp graceful-restart`
`!`
- D. `ip cef`
`!mpls ldp`
`logging neighbor-changes`
`graceful-restart`
`!`

A. B. C. D.

A. Option A

B. Option B

C. Option C

D. Option D

Correct Answer: C



QUESTION 2

With unmanaged CE routers, at which point in the service provider network is the QoS trust boundary, and what is required at the trust boundary?

- A. between the CE and PE router and mapping of the customer traffic classes into the service provider traffic classes at the PE router ingress
- B. between the CE and PE router and trusting the QoS markings from the CE router and applying the required QoS mechanisms based on the customer QoS markings
- C. between the PE and the P router and mapping of the customer traffic classes into the service provider traffic classes at the P router ingress
- D. between the PE and P router and trusting the QoS markings from the CE router and applying the required QoS mechanisms based on the customer QoS markings
- E. between the customer network and the CE router ingress and applying the required egress QoS policy on the CE router

Correct Answer: A

QUESTION 3

Referring to the traceroute output exhibit that is shown,

```
pe1#traceroute 14.14.14.14
Type escape sequence to abort.
Tracing the route to 14.14.14.14
 0 37.37.37.1 [MPLS: Label 66 Exp 0] 40 msec 24 msec 28 msec
 1 78.78.78.2 [MPLS: Label 99 Exp 0] 28 msec 32 msec 28 msec
 2 181.181.181.1 [MPLS: Label 99 Exp 0] 36 msec 24 msec 24 msec
 3 110.110.110.1 28 msec 28 msec 28 msec
 4 103.103.103.2 [MPLS: Label 66 Exp 0] 28 msec 28 msec 24 msec
 5 135.135.135.2 28 msec 28 msec *
```

which statement is correct?

- A. There is no problem with the end-to-end LSP as indicated by the successful trace.
- B. Normal PHP operation is performed by the hop 4 router.
- C. The end-to-end LSP is broken at hop 4.
- D. At each hop, each LSR is able to perform label swapping.

Correct Answer: C

QUESTION 4



Which three options can an engineer select for a traffic policer in case the traffic rate is less than the conform burst? (Choose three.)

- A. Drop the packet.
- B. Transmit the packet.
- C. Set the CoS value and drop the packet.
- D. Set the DSCP value and drop the packet.
- E. Keep the packet in the buffer.
- F. Set the QoS group and drop the packet.

Correct Answer: ABF

QUESTION 5

Refer to the partial Cisco IOS XR configurations exhibit for Router 1 and Router 2.



```
RP/0/RP0/CPU0:Router1#show running-config mpls ldp

mpls ldp
router-id 33.33.33.33
log
 adjacency
 !
 interface GigabitEthernet0/2/0/6
 !

RP/0/RP1/CPU0:Router2#show running-config mpls ldp

mpls ldp
router-id 10.12.0.3
log
 neighbor
 !
 interface GigabitEthernet0/0/2/2
 !

RP/0/RP0/CPU0:Router1#show running-config router ospf

router ospf test
area 0
 interface Loopback7
 passive enable
 !

RP/0/RP1/CPU0:Router2#show running-config router ospf

router ospf test
area 0
 interface Loopback0
 passive enable
 !
 interface GigabitEthernet0/0/2/2
 !
```

There are two routers that are connected back to back over the Gigabit Ethernet link. If the "show mpls ldp neighbor" command output on Router 1 does not show LDP peering with Router 2, what could be the possible root cause of the LDP peering problem?

- A. missing interface under OSPF IGP configuration
- B. hello timers mismatch on Router 1 and Router 2
- C. password for LDP session mismatch on Router 1 and Router 2
- D. MPLS LDP session protection is not configured

Correct Answer: A



QUESTION 6

What is a crucial LDP default operating behavior?

- A. LDP uses the solicited mode by default. An LDP label request is sent to the FIB next hop LSR. When the egress router receives the request, it returns message with all the label-mapping information for the LSP is generated.
- B. LDP establishes a TCP session between the PE routers, thus providing label mapping for the LSP
- C. LDP uses downstream unsolicited mode by default. An LSR advertises label mappings to peers without being asked
- D. LDP uses UDP-confirmed messages to establish sessions between PE ingress and egress routers. The UDP messages encode the label information for each LSP and sub- LSP link

Correct Answer: C

QUESTION 7

Which two considerations are important when implementing a Cisco MPLS TE NHOP or NNHOP protection? (Choose two.)

- A. The head-end router requires configuring high priority for the Cisco MPLS TE tunnel.
- B. The head-end router requires configuration for the NHOP or NNHOP protection request to occur.
- C. The reconvergence time must be no longer than 10 seconds.
- D. The Cisco MPLS TE tunnel on the Point of Local Repair implementing protection requires configuration as backup interface.
- E. The tail-end router must be aware of the request for NHOP or NNHOP protection.

Correct Answer: BD

QUESTION 8

Which statement is correct regarding the default MPLS TTL behavior?

- A. When an ingress edge LSR receives an IP packet, it will decrement the IP TTL field by 1; then it will set the MPLS Label TTL field to 255.
- B. When an ingress edge LSR receives an IP packet, it will decrement the IP TTL field by 1; then it will copy the decremented IP TTL field into the MPLS Label TTL field.
- C. When an ingress edge LSR receives an IP packet, it will just copy the IP TTL field into the MPLS Label TTL field.
- D. When an ingress edge LSR receives an IP packet, it will copy the IP TTL field into the MPLS Label TTL field first; then it will only decrement the MPLS Label TTL field by 1.
- E. When an ingress edge LSR receives an IP packet, it will copy the IP TTL field into the MPLS Label TTL field first; then it will only decrement the IP TTL field by 1.

Correct Answer: B



QUESTION 9

Refer to the exhibit.

```
interface Tunnel1001
 tunnel mode mpls traffic-eng
 ip address unnumbered
 tunnel destination 10.0.0.1
 tunnel mpls traffic-eng path-option 1 dynam
```

Which two commands can be used to assign traffic onto MPLS TE Tunnel1001? (Choose two.)

- A. ip route 0.0.0.0 0.0.0.0 Tunnel1001
- B. tunnel mpls traffic-eng autoroute announce
- C. tunnel mpls traffic-eng bandwidth
- D. tunnel mpls traffic-eng priority 1 1
- E. ip route 0.0.0.0 0.0.0.0 10.0.0.1

Correct Answer: AB

QUESTION 10

Which queuing mechanism should an engineer implement on delay sensitive categories of traffic?

- A. weighted fair
- B. priority
- C. low-latency
- D. weighted round-robin

Correct Answer: C

QUESTION 11

Refer to the exhibit.



```
class-map match-any cos_4
  match cos 4
!
policy-map set_dscp
  class cos_4
    set ip dscp af42
    bandwidth 5000
random-detect dscp-based
!
```

IT administrators report packet loss on the critical applications coming with CoS 4. Which option is the appropriate configuration to have a lower drop probability when the packets are processed using

DSCP values?

- A. set ip dscp af22
- B. set ip dscp af41
- C. set ip dscp af13
- D. set ip dscp af32

Correct Answer: B

QUESTION 12

Which two fields are in the traffic engineering topology database? (Choose two.)

- A. TE-metric
- B. IGP metric
- C. link delay
- D. LSP setup priority
- E. LDP authentication

Correct Answer: AD

QUESTION 13

Which QoS technique can be used to protect customer traffic from being dropped by traffic rate limiting performed by the service provider?

- A. LLQ
- B. policing
- C. fair-queue



D. shaping

Correct Answer: D

QUESTION 14

On the Cisco IOS XR, which MQC configuration is different than on the Cisco IOS and IOS XE?

- A. On the Cisco IOS XR, WRED can only be applied in the output direction.
- B. On the Cisco IOS XR, marking can only be applied in the input direction.
- C. On the Cisco IOS XR, LLQ can be applied in the input or output direction.
- D. On the Cisco IOS XR, LLQ can use up to four priority queues: level 1, level 2, level 3, and level 4.

Correct Answer: C

QUESTION 15

Scenario: On CE7 which statement is correct regarding Traffic the QoS policy applied to the gi0/0 interface in the input direction?

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.

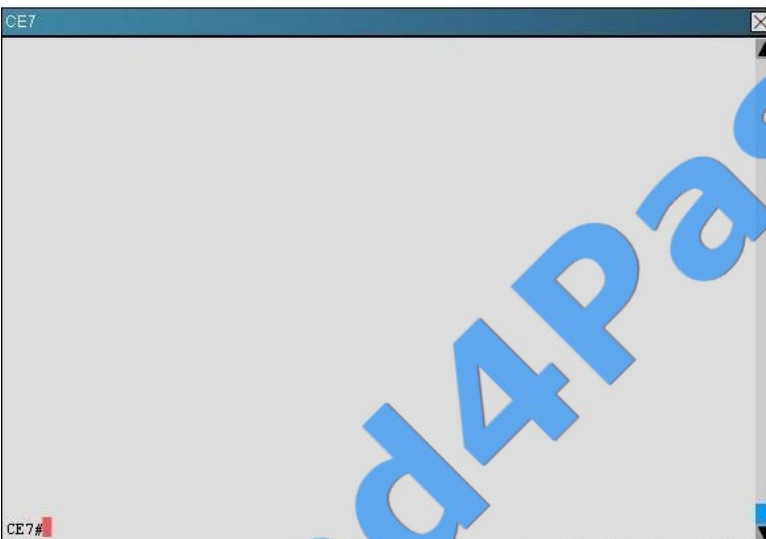
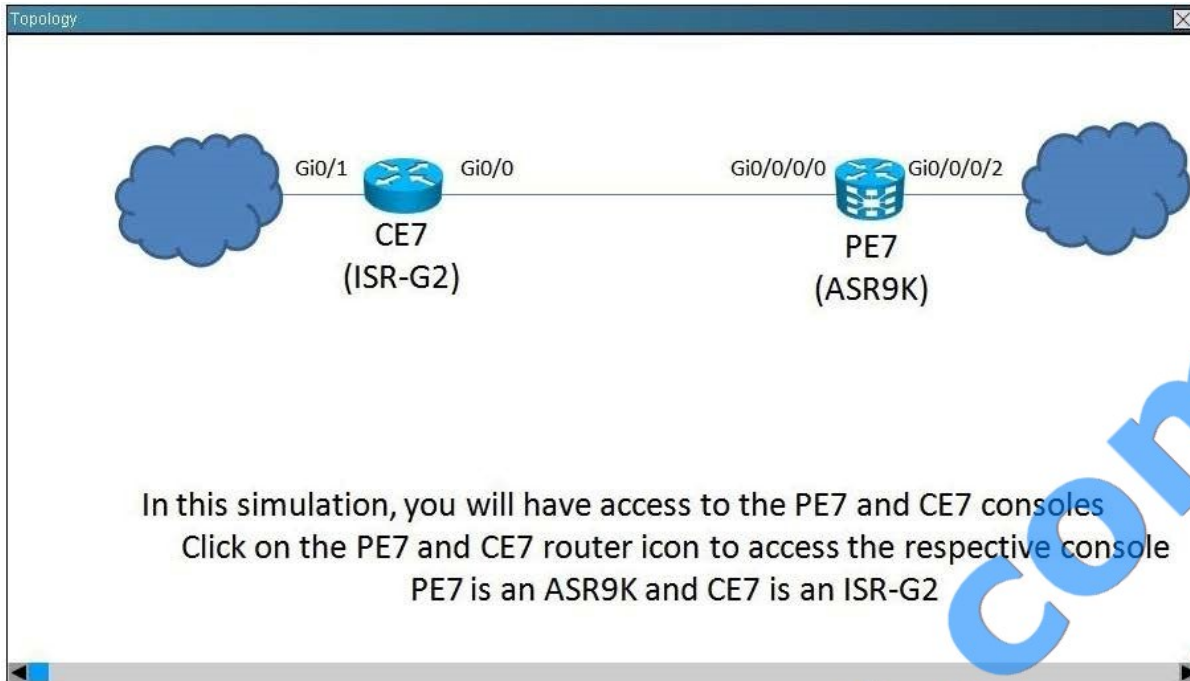
There are four multiple-choice questions with this task. Be sure to answer all four questions before selecting the Next button.

Not all the CLI commands or commands options are supported or required for this simulation. 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 CE7 and PE7 routers and interpret the supported CLI commands outputs to answer the four multiple choice questions.







- A. Traffic matching the "MARKING2" class-map will be marked with qos-group 5
- B. Traffic matching the "MARKING1" class-map will be marked with MPLS EXP 5
- C. All incoming packets not matched by the "MARKING1" class-map will be dropped
- D. All incoming packets with the DSCP EF marking will be marked with MPLS EXP 0

Correct Answer: B

Explanation: Issue: show policy-map interface gi0/0 First find out which policy-map is applied (it called something like QOSPOLICY1) A is wrong. Class MARKING2 is indeed defined but not applied to that policy-map. There are two class-maps applied MARKING1 and class-default. Both will mark the traffic with MPLS EXP values. default: set mpls experimental imposition 0 MARKING1 set mpls experimental imposition 5

QUESTION 16

LDP session protection uses which one to maintain the LDP session between LDP neighbors?

- A. LDP NSF
- B. LDP NSR
- C. backup-targeted LDP hellos
- D. BFD
- E. LDP-IGP synchronization

Correct Answer: C

QUESTION 17

Which two options are true regarding the Pipe and Short Pipe MPLS tunneling models? (Choose two.)

- A. In Short Pipe mode QoS is done on the PE-to-CE link based on the customer's PHB markings
- B. In Pipe mode QoS is done on the PE-to-CE link based on the service provider's PHB markings
- C. In Pipe mode QoS is done on the PE-to-CE link based on the customer's PHB markings
- D. In Short Pipe mode QoS is done on the PE-to-CE link based on the service provider's PHB markings
- E. Short Pipe mode does not need MPLS usage, but Pipe mode does

Correct Answer: AB

QUESTION 18

Which two features are used to provide Cisco MPLS TE node and link protection? (Choose two.)



- A. autoroute
- B. fast reroute
- C. backup tunnels
- D. BFD

Correct Answer: BC

QUESTION 19

A network engineer must design a core network routing domain that supports Cisco MPLS TE. Which two interior gateway protocols represent viable solutions? (Choose two.)

- A. Routing Information Protocol version 2
- B. Open Shortest Path First
- C. Enhanced Interior Gateway Routing Protocol
- D. Intermediate-System to Intermediate-System
- E. Border Gateway Protocol

Correct Answer: BD

QUESTION 20

Which two interface types can support qos pre-classify (Choose two.)

- A. virtual templates
- B. tunnel interfaces
- C. FastEthernet
- D. FDDI

Correct Answer: BC

QUESTION 21

Refer to the exhibit. What happens to the traffic that exceeds the CIR?

- A. It is set an EXP value of 5 and transmitted
- B. It is set an EXP value of 5 and dropped
- C. It is set an EXP value of 0 and transmitted



D. It is set an EXP value of 3 and dropped

Correct Answer: C

QUESTION 22

An engineer sets up QoS over MPLS networks. How many classes of traffic can one LSP support?

- A. as many as 8, because the EXP field is 3 bits
- B. as many as 3, because the EXP field is 3 bits
- C. as many as 64, because the DSCP field is 6 bits
- D. as many as 6, because the DSCP field is 6 bits

Correct Answer: A

QUESTION 23

Cisco MPLS TE path setup can be affected by which three tunnel attributes? (Choose three.)

- A. bandwidth
- B. delay
- C. MTU
- D. priority
- E. affinity

Correct Answer: ADE

QUESTION 24

When using the tunnel mpls traffic-eng path-option 1 explicit name test command in Cisco MPLS TE tunnel configurations, the test explicit-path configuration will consist of a list of which values?

- A. tunnel endpoint
- B. resource class affinity
- C. MPLS label
- D. IP address

Correct Answer: D

tunnel mpls traffic-eng path-option



To configure a path option for a Multiprotocol Label Switching (MPLS) traffic engineering tunnel, use the tunnel mpls traffic-eng path-option command in interface configuration mode. To disable the specified path option, use the no form of this command.

```
tunnel mpls traffic-eng path-option number {dynamic | explicit {name path-name | path-number}} [lockdown]
```

```
no tunnel mpls traffic-eng path-option number {dynamic | explicit {name path-name | path-number}} [lockdown]
```

Syntax Description

number = When multiple path options are configured, lower numbered options are preferred.

dynamic = Path of the LSP is dynamically calculated.

explicit = Path of the LSP is an IP explicit path.

name path-name = Path name of the IP explicit path that the tunnel uses with this option. path-number = Path number of the IP explicit path that the tunnel uses with this option. lockdown = (Optional) The LSP cannot be reoptimized.

Usage Guidelines

You can configure multiple path options for a single tunnel. For example, there can be several explicit path options and a dynamic option for one tunnel. Path setup preference is for lower (not higher) numbers, so option 1 is preferred.

Examples

The following example shows how to configure the tunnel to use a named IP explicit path:

```
Router(config-if)# tunnel mpls traffic-eng path-option 1 explicit name test
```

QUESTION 25

On Cisco routers, which three methods can be used to map traffic into the MPLS traffic engineering tunnel? (Choose three.)

- A. on-demand routing
- B. static routing
- C. optimized edge routing
- D. policy-based routing
- E. autoroute

Correct Answer: BDE

QUESTION 26

Layer 2 VPN services that are offered by traditional service providers using a SONET/SDH backbone can be implemented by service providers using an IP/MPLS backbone with which MPLS feature?



- A. LSP stitching
- B. AToM
- C. virtual private WAN services
- D. cell-mode MPLS

Correct Answer: B

QUESTION 27

Which statement describes the QoS behavior between P and PE routers of an MPLS provider network for an L3VPN service?

- A. The PE function honors DSCP markings set by the CE.
- B. The customer and provider must agree on DSCP classification and traffic priorities.
- C. Classification of customer traffic is handled by the P router.
- D. The PE function cannot map DSCP markings to MPLS EXP bits.

Correct Answer: B

QUESTION 28

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 29

Which four options are methods by which labels can be assigned in the label stack to an IP prefix? (Choose four.)

- A. LDP
- B. CEF
- C. BGP



- D. RSVP
- E. static
- F. IGP
- G. route recursion
- H. manual tagging

Correct Answer: ACDG

QUESTION 30

Which three statements are correct regarding a Cisco MPLS TE? (Choose three.)

- A. A Cisco MPLS TE tunnel maps onto an LSP path.
- B. Tunnels are bidirectional by default.
- C. Packets that are mapped into a Cisco MPLS TE tunnel will have two labels, with the top label indicating what the tail-end router should do with the packet.
- D. A tunnel that is created with a priority of 0 can pre-empt an existing tunnel with a priority of 7.
- E. CBR takes into account link resource and traffic tunnel attributes.
- F. RSVP is used between customer routers.

Correct Answer: ADE

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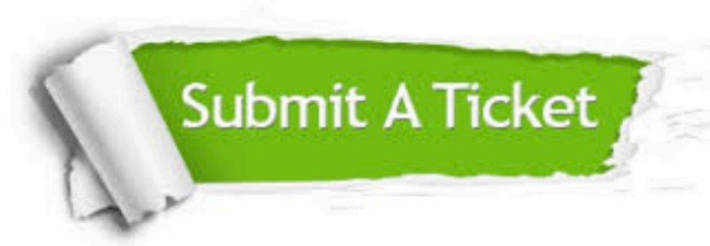
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