

100% Money Back
Guarantee

Vendor:Cisco

Exam Code:642-887

Exam Name:Implementing Cisco Service Provider
Next-Generation Core Network Services

Version:Demo

QUESTION 1

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 2

When a link flaps, an mpls ldp session will also flap. Which feature minimizes traffic loss and provides faster convergence after the link is re-established?

- A. BFD
- B. MPLS LDP IGP SYNC
- C. graceful restart
- D. LDP session protection
- E. LDP nonstop routing

Correct Answer: D

QUESTION 3

An engineer is having a problem getting an operational 10 Gigabit link on a Cisco ASR 9000 series router. The service provider instructs the engineer to use an LR optic. The engineer must access the router remotely. Which command should the engineer issue to determine that the correct optic has been installed?

- A. show controllers
- B. show module optics
- C. show ip interface
- D. show optics

Correct Answer: A

QUESTION 4

A company is experiencing congestion on Internet T1 links that transport site-to-site IPsec tunnels between head offices. QoS configuration is being modified on these T1 links. Which option describes the result from this QoS configuration?

- A. VPN traffic is unaffected because the inner ToS field is encrypted and hidden from the policy
- B. The physical interface is affected by the new QoS configuration
- C. The internal VPN logical interface reflects the new QoS service policy
- D. IPsec protocol applications work independently of the QoS configuration

Correct Answer: A

QUESTION 5

Which three statements are correct regarding ping mpls command operations? (Choose three.)

- A. MPLS OAM has to be enabled on the router using the mpls oam command.
- B. They use a 127/8 address as the destination address in the MPLS echo request packet.
- C. They use ICMP echo request and ICMP echo reply packets.
- D. They are used to test for a broken LSP.
- E. If there is a broken LSP, instead of using label switching, the packet can still be forwarded based on the destination IP address in the mpls ping echo request packet.

Correct Answer: ABD

How MPLS Ping works?

MPLS Ping doesn't rely on ICMP echo messages. Instead it uses UDP protocol with both source and destination port as 3503 and relies on MPLS Echo request and MPLS Echo reply.

When MPLS ping is triggered from any MPLS router, it will generate UDP segment with source/destination port as 3503. The source address will be selected as usual while the destination address will be 127.0.0.1. The IP TTL will be set to 1.

Below is a sample IP format when MPLS Ping is originated from R5 to 150.1.6.6/32,

```

0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1
+---+---+---+---+---+---+---+---+---+---+---+---+---+---+---+---+
|Version|  IHL  |Type of Service|                Total Length      |
+---+---+---+---+---+---+---+---+---+---+---+---+---+---+---+---+
|                Identification                |Flags|      Fragment Offset  |
+---+---+---+---+---+---+---+---+---+---+---+---+---+---+---+---+
|  TTL=1  |  Protocol=UDP  |                Header Checksum  |
+---+---+---+---+---+---+---+---+---+---+---+---+---+---+---+---+
|                150.1.5.5                |
+---+---+---+---+---+---+---+---+---+---+---+---+---+---+---+---+
|                127.0.0.1                |
+---+---+---+---+---+---+---+---+---+---+---+---+---+---+---+---+
|                Options                |      Padding      |
+---+---+---+---+---+---+---+---+---+---+---+---+---+---+---+---+

```

Now the originating LSR will look into the LFIB and populate the label header with respective labels to reach the FEC, in our case 150.1.6.6/32. R4 on receiving the MPLS packet will be able to send to the actual destination only if the LSP is end to end. If the LSP is broken between R4 and R6, R4 will look into the destination IP address which will be 127.0.0.1 and won't be able to perform IP forwarding. As per RFC 1812, a router should not forward any packet that has destination address of 127.0.0.0/8

QUESTION 6

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 7

In an IPv6 header, what does a flow label of zero indicate?

- A. The packet is not part of any flow.
- B. The size of the flow label is zero bytes.
- C. The label flow cannot have a value of zero.
- D. The packet belongs to the flow labeled zero.

Correct Answer: A

QUESTION 8

Which two traffic types are recognized by NBAR default configuration settings? (Choose two.)

- A. HTTP URL
- B. Sun RPC
- C. TCP
- D. UDP
- E. HTTPS URL

Correct Answer: AB

QUESTION 9

Scenario: On CE 7 router, which statement is correct regarding the "QOS-POLICY policy map configurations?

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.

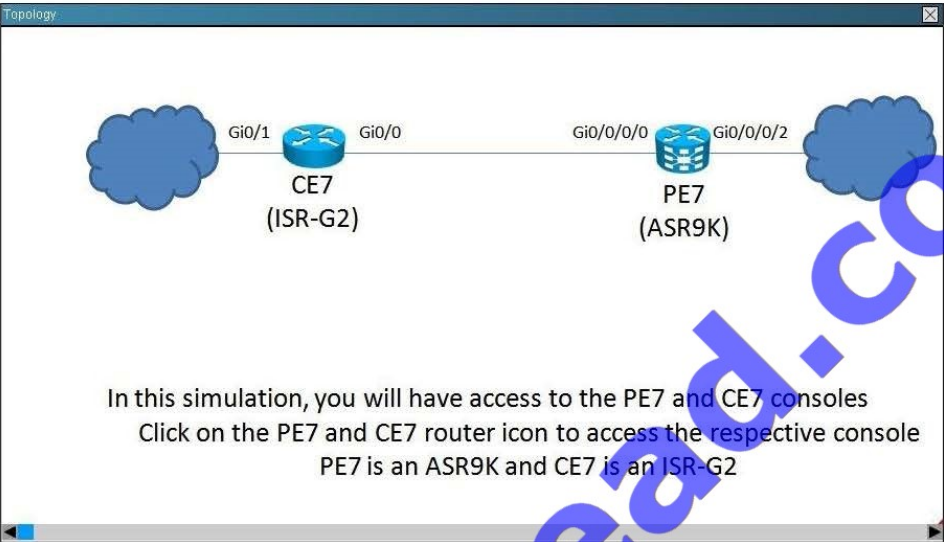
No console or enable passwords are required.

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.



CE7

```
CE7#
```

RP/0/RSP0/CPU0:PE7

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

- A. Traffic matched by the "QOS-HTTP-1" class-map is shaped to an average rate of 2560000 128000bps
- B. Traffic matched by the "QOS1-HTTP-2" class-map will be queued in the low-latency- queue which has a maximum bandwidth guarantee of 64000
- C. Traffic matched by the "QOS-FTP-1" class-map can't use more than 256 Kbps under any condition
- D. The "QOS-POLICY is applied to the gi0/0 interface in the input direction

Correct Answer: C

show policy-map # show policy-map interface x/y # show running-config policy-map

QUESTION 10

A service provider experiences routing issues in a customer MPLS network. The customer has two sites that are connected over its core. Which feature can be used for troubleshooting?

- A. disabling of Cisco Express Forwarding, to enable the use of LSP Ping and LSP Traceroute to verify the IP routing path
- B. redistribution between the BGP IPv4 and VPNv4 address families, to use labels to forward the customer packets
- C. LSP Ping, to confirm that the label-switched path is used for transport
- D. traceroute, to verify the label-switched path that is used for point-to-multipoint

Correct Answer: C

QUESTION 11

Which two advantages are reasons that service providers might deploy MPLS? (Choose two.)

- A. to avoid using IGP in the core
- B. to facilitate smooth migrations between legacy WAN technologies
- C. to reduce the throughput overhead of full IPv4/IPv6 headers when traversing the core
- D. to reduce the computational requirements that are placed on router CPUs
- E. to reduce configuration and feature requirements in the core

Correct Answer: CD

QUESTION 12

Which affinity value will be matched by the affinity bit mask of the affinity 0xFF0000A mask 0xFFFF000F command?

- A. 0xFFFF000A

B. 0xFF00EEEE

C. 0xFF000000

D. 0x00000000

E. 0x11110001

Correct Answer: B

0xFF00000A 111111110000000000000000000001010 0xFFFF000F 111111111111111111000000000001111
0xFF00EEEE 11111111000000001110111011101010

To Read the [Whole Q&As](#), please purchase the [Complete Version](#) from [Our website](#).

Try our product !

100% Guaranteed Success

100% Money Back Guarantee

365 Days Free Update

Instant Download After Purchase

24x7 Customer Support

Average **99.9%** Success Rate

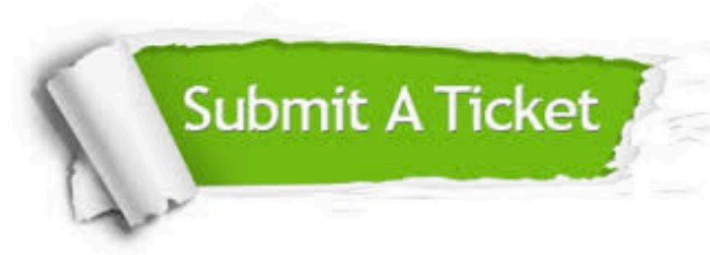
More than **800,000** Satisfied Customers Worldwide

Multi-Platform capabilities - **Windows, Mac, Android, iPhone, iPod, iPad, Kindle**

Need Help

Please provide as much detail as possible so we can best assist you.

To update a previously submitted ticket:



 <p>One Year Free Update Free update is available within One Year after your purchase. After One Year, you will get 50% discounts for updating. And we are proud to boast a 24/7 efficient Customer Support system via Email.</p>	 <p>Money Back Guarantee To ensure that you are spending on quality products, we provide 100% money back guarantee for 30 days from the date of purchase.</p>	 <p>Security & Privacy We respect customer privacy. We use McAfee's security service to provide you with utmost security for your personal information & peace of mind.</p>
---	---	--

Any charges made through this site will appear as Global Simulators Limited.

All trademarks are the property of their respective owners.