



# 350-501<sup>Q&As</sup>

Implementing and Operating Cisco Service Provider Network Core Technologies (SPCOR)

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### QUESTION 1

Which configuration modifies Local Packet Transport Services hardware policies?

- A. **configure**  
**lpts police**  
**exception invalid rate 400**  
**protocol cdp rate 50**  
**protocol arp rate 5000**
- B. **configure**  
**lpts pifib police hardware**  
**flow ospf unicast default rate 200**  
**flow bgp configured rate 200**  
**flow bgp default rate 100**  
**!**  
**lpts pifib police hardware location 0/2**  
**flow ospf unicast default rate 100**  
**flow bgp configured rate 300**  
**flow icmp application rate 100**  
**flow icmp default rate 100**  
**!**
- C. **configure**  
**lpts pifib hardware police**  
**flow ospf unicast default rate 200**  
**flow bgp configured rate 200**  
**flow bgp default rate 100**  
**!**  
**lpts pifib hardware police location 0/2/CPU0**  
**flow ospf unicast default rate 100**  
**flow bgp configured rate 300**  
**flow icmp application rate 100**  
**flow icmp default rate 100**  
**!**
- D. **configure**  
**lpts punt police location 0/0/CPU0**  
**exception invalid rate 400**  
**protocol cdp rate 50**  
**protocol arp rate 5000**  
**protocol ipv4 options rate 100**  
**exception icmp rate 200**



- A. Option A
- B. Option B
- C. Option C
- D. Option D

Correct Answer: C

Reference: [https://www.cisco.com/c/en/us/td/docs/routers/crs/software/crs\\_r4-1/addr\\_serv/command/reference/b\\_ipaddr\\_cr41crs/b\\_ipaddr\\_cr41crs\\_chapter\\_0111.html#wp1754734006](https://www.cisco.com/c/en/us/td/docs/routers/crs/software/crs_r4-1/addr_serv/command/reference/b_ipaddr_cr41crs/b_ipaddr_cr41crs_chapter_0111.html#wp1754734006)

## QUESTION 2

```
R1
ip cef distributed
mpls ldp graceful-restart
interface GigabitEthernet 0/0/1
 mpls ip
 mpls label protocol ldp
```

Refer to the exhibit Which effect of this configuration is true?

- A. R1 can support a peer that is configured for LDP SSO/NSF as the peer recovers from an outage.
- B. R1 can support a graceful restart operation on the peer, even if graceful restart is disabled on the peer.
- C. R1 can failover to any peer.
- D. R1 can failover only to a peer that is configured for LDF SSO/NSF.

Correct Answer: A

Reference: <https://www.cisco.com/en/US/docs/general/Test/kwoodwar/fsgr29s.html>

## QUESTION 3

Which BGP attribute is used first when determining the best path?

- A. origin
- B. AS path
- C. local preference
- D. weight



Correct Answer: D

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#### QUESTION 4

Which statement about Network Services Orchestrator (NSO) is true?

- A. It must use SDN as an overlay for addressing.
- B. It uses YANG modeling language to automate devices.
- C. It is used only in service provider environments.
- D. It can be used only with XML coding.

Correct Answer: B

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#### QUESTION 5

You are configuring MPLS traffic-engineering tunnels in the core. Which two ways exist for the tunnel path across the core? (Choose two.)

- A. The dynamic path option is supported only with IS-IS.
- B. Tunnels can be configured with dynamic path or explicitly defined path.
- C. A zero bandwidth tunnel is not a valid option.
- D. The bandwidth statement creates a "hard" reservation on the link.
- E. Tunnel links inherit IGP metrics by default unless overridden.

Correct Answer: BE

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#### QUESTION 6

When configuring traffic engineering tunnels in Cisco MPLS core network, you see the traffic is not taking the expected path in the core.

Which command do you use to quickly check path of a TE tunnel?

- A. Traceroute mpls ipv4 -tunnel destination
- B. Ping
- C. show mpls traffic-engineering tunnels
- D. traceroute

Correct Answer: A

---



### QUESTION 7

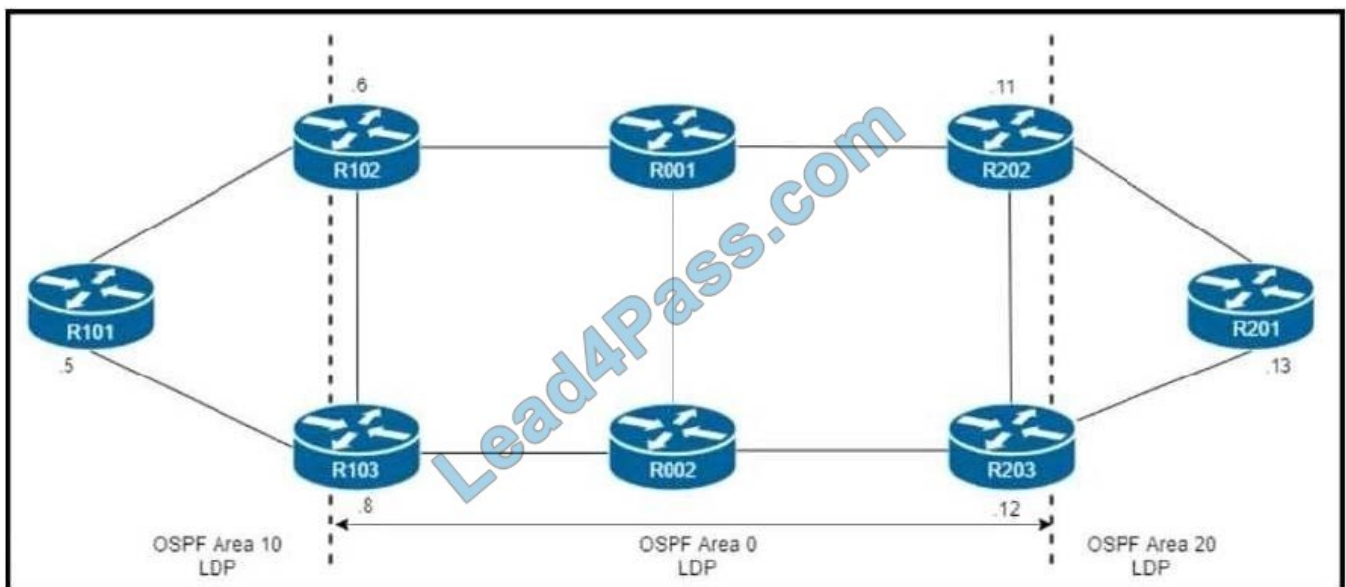
An engineer is trying to implement BGP in a multihomed architecture. What must the engineer configure to influence inbound path selection?

- A. A route map with WEIGHT attribute to control the inbound traffic.
- B. An offset list to set the metric for routes received from neighboring autonomous systems.
- C. An access list to identify traffic and enable it on both of the provider-facing interfaces.
- D. A route map with AS\_PATH attribute to control the inbound traffic.

Correct Answer: D

### QUESTION 8

Refer to the exhibit.



R101 is peering with R102 and R103, and R201 is peering with R202 and R203 using iBGP Labeled Unicast address families. The OSPF area 0 border routers are in a full iBGP Labeled Unicast mesh, and VPNv4 routes are exchanged directly between PE routers R101 and R201 through iBGP

Which address family-level configuration must be applied on ABR R102 on ABR R102 to support a Unified MPLS routing architecture with partitioned IGP domains?





- A. **router bgp 65512**  
**address-family ipv4**  
**neighbor 172.16.0.5 route-reflector-client**  
**neighbor 172.16.0.5 send-label**  
**neighbor 172.16.0.11 route-reflector-client**  
**neighbor 172.16.0.11 send-label**  
**neighbor 172.16.0.12 route-reflector-client**
- B. **router bgp 65512**  
**address-family ipv4**  
**neighbor 172.16.0.5 route-reflector-client**  
**neighbor 172.16.0.5 next-hop-self all**  
**neighbor 172.16.0.5 send-label**  
**neighbor 172.16.0.11 next-hop-self all**  
**neighbor 172.16.0.11 send-label**  
**neighbor 172.16.0.12 next-hop-self all**  
**neighbor 172.16.0.12 send-label**
- C. **router bgp 65512**  
**address-family ipv4**  
**neighbor 172.16.0.5 route-reflector-client**  
**neighbor 172.16.0.5 next-hop-self all**  
**neighbor 172.16.0.11 next-hop-self all**  
**neighbor 172.16.0.12 next-hop-self all**
- D. **router bgp 65512**  
**address-family ipv4**  
**neighbor 172.16.0.5 route-reflector-client**  
**neighbor 172.16.0.5 next-hop-self**  
**neighbor 172.16.0.5 send-label**  
**neighbor 172.16.0.11 next-hop-self**  
**neighbor 172.16.0.11 send-label**  
**neighbor 172.16.0.12 next-hop-self**  
**neighbor 172.16.0.12 send-label**

A. Option A

B. Option B

C. Option C

D. Option D

Correct Answer: B

#### QUESTION 9



A network engineer is implementing BFD configuration changes on a customer's equipment. How is the bfd interval configuration on the interface disconnected?

- A. The status of the interface changes.
- B. The IPv4 or IPv6 address configuration on the interface changes.
- C. It is automatically disconnected when the BFD-configured subinterface is removed.
- D. It is automatically disconnected when the BFD main interface is removed.

Correct Answer: D

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#### QUESTION 10

A service provider has a requirement to deliver WAN gateway functionality to multi-tenant, provider-hosted clouds. Which Cisco platform meets this requirement?

- A. Cisco ASR 9000 series
- B. Cisco NX-OS
- C. Cisco ASR 1000 Series
- D. Cisco CSR 1000v
- E. Cisco CRS series

Correct Answer: D

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#### QUESTION 11

A customer of an ISP requests support to setup a BGP routing policy. Which BGP attribute should be configured to choose specific BGP speakers as preferred points for the customer AS?

- A. lowest multi-exit discriminator
- B. highest local preference outbound
- C. lowest local preference inbound
- D. highest local preference inbound

Correct Answer: B

---

#### QUESTION 12

DRAG DROP

Drag and drop the OSs from the left onto the correct descriptions on the right.



Select and Place:

### Answer Area

IOS XR

IOS

IOS XE

It is a monolithic architecture that runs all modules on one memory space.

It runs over a Linux platform and pulls the system functions out of the main kernel and into separate processes.

It segments ancillary processes into separate memory spaces to prevent system crashes from errant bugs.

Correct Answer:

### Answer Area

Empty answer area for the correct answer.

IOS

IOS XE

IOS XR

### QUESTION 13

DRAG DROP

Drag and drop the technologies from the left onto the correct definitions on the right.

Select and Place:





### Answer Area

DWDM	required for routes and switches to have DWDM and ITU-T G.709 implemented
ROADM	used to amplify an optical signal
IPoDWDM	used to drop certain lambdas within a DWDM ring at a specific location
EDFA	increases bandwidth over a single fiber by using different wavelengths

Correct Answer:

### Answer Area

	IPoDWDM
	EDFA
	ROADM
	DWDM

### QUESTION 14

Refer to the exhibit.



R1

```
ip cef distributed
mpls ldp graceful-restart
interface GigabitEthernet 0/0/1
  mpls ip
  mpls label protocol ldp
```

What is the effect of this configuration?

- A. R1 supports a graceful restart operation on the peer, even if graceful restart is disabled on the peer.
- B. R1 supports a peer that is configured for LDP SSO/NSF as the peer recovers from an outage.
- C. R1 failovers only to a peer that is configured for LDP SSO/NSF.
- D. R1 failovers to any peer.

Correct Answer: C

#### QUESTION 15

```
PE-A#config t
PE-A(config)#class-map VOIP
PE-A(config-cmap)#match precedence 5
PE-A(config-cmap)#policy-map MARK-TRAFFIC
PE-A(config-pmap)#class VOIP
```

Refer to the exhibit. Which command is used to complete this configuration for QoS class-based marking?

- A. PE-A(config-pmap-c)#set dscp ef
- B. PE-A(config-pmap-c)#priority
- C. PE-A(config-pmap-c)#random-detect
- D. PE-A(config-pmap-c)#fair-queue



Correct Answer: A

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