# Cisco

## Exam Questions 350-501

Implementing and Operating Cisco Service Provider Network Core Technologies

**NEW QUESTION 1**
Which component is similar to an EVPN instance?

A. router distinguisher
B. MPLS label
C. IGP router ID
D. VRF

**Answer:** D


**NEW QUESTION 2**
Why do Cisco MPLS TE tunnels require a link-state routing protocol?

A. The link-state database provides segmentation by area, which improves the path-selection process.
B. The link-state database provides a data repository from which the tunnel endpoints can dynamically select a source ID.
C. Link-state routing protocols use SPF calculations that the tunnel endpoints leverage to implement the tunnel.
D. The tunnel endpoints use the link-state database to evaluate the entire topology and determine the best path.

**Answer:** D


**NEW QUESTION 3**

Refer to the exhibit. BGPsec is implemented on R1, R2, R3, and R4. BGP peering is established between neighboring autonomous systems. Which statement about implementation is true?

A. BGP updates from the iBGP peers are appended with a community of local-as.
B. BGP updates from the all BGP peers are appended with a community of no-export.
C. BGP updates from the eBGP peers are appended with an additional AS path value that is statically set by the domain administrator.
D. BGP updates from the eBGP peers are appended with a BGPsec attribute sequence that includes a public key hash and digital signature.

**Answer:** D


**NEW QUESTION 4**
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.

**Answer:** BE


**NEW QUESTION 5**
After you analyze your network environment, you decide to implement a full separation model for Internet access and MPLS L3VPN services. For which reason do you make this decision?

A. It enables EGP and IGP to operate independently.
B. It enables you to choose whether to separate or centralize each individual service.
C. It is easier to manage a system in which services are mixed.
D. It requires only one edge router.

**Answer:** A


**NEW QUESTION 6**
Which statement about the Cisco MPLS TE forwarding adjacency feature is true?

A. It enables the MPLS core to use EIGRP as the routing protocol.
B. It enables the Cisco MPLS TE tunnel to be advertised into the running IGP.
C. It enables the tailend router to advertise routes to the headend router over the tunnel.
D. It enables the headend and tailend routers to establish a bidirectional tunnel.

**Answer:** B


**NEW QUESTION 7**
While implementing TTL security, you issue the PE(config-router-af)#neighbor 2.2.2.2 ttl-security hops 2 command.
After you issue this command, which BGP packets does the PE accept?

A. to 2.2.2.2, with a TTL of 2 or more
B. from 2.2.2.2, with a TTL of less than 2
C. to 2.2.2.2, with a TTL of less than 253
D. from 2.2.2.2, with a TTL of 253 or more

**Answer:** D

**NEW QUESTION 8**
Refer to the exhibit. R1 is connected to two service providers and is under a DDoS attack.
Which statement about this design is true if URPF in strict mode is configured on both interfaces?

A. R1 drops all traffic that ingresses either interface that has a FIB entry that exits a different interface.
B. R1 drops destination addresses that are routed to a null interface on the router.
C. R1 permits asymmetric routing as long as the AS-PATH attribute entry matches the connected AS.
D. R1 accepts source addresses on interface gigabitethernet0/1 that are private addresses.

**Answer:** A


**NEW QUESTION 9**


Refer to the exhibit. Router 1 was experiencing a DDoS attack that was traced to interface gigabitethernet0/1. Which statement about this configuration is true?

A. Router 1 accepts all traffic that ingresses and egresses interface gigabitethernet0/1.
B. Router 1 drops all traffic that ingresses interface gigabitethernet0/1 that has a FIB entry that exits a different interface.
C. Router 1 accepts source addresses that have a match in the FIB that indicates it is reachable through a real interface.
D. Router 1 accepts source addresses on interface gigabitethernet0/1 that are private addresses.

**Answer:** C


**NEW QUESTION 10**
An engineer is setting up overlapping VPNs to allow VRF ABC and XYZ to communicate with VRF CENTRAL but wants to make sure that VRF ABC and XYZ cannot communicate. Which configuration accomplishes these objectives?

A.

B.

C.

D.

**Answer:** B


**NEW QUESTION 10**

Refer to the exhibit. An engineer is preparing to implement data plane security configuration. Which statement about this configuration is true?

A. Router 1 and Router 2 advertise the route to 192.0.2.0 to all BGP peers.
B. All traffic to 192.168.1.0/24 is dropped.
C. All traffic is dropped.
D. Router 1 drops all traffic with a local-preference set to 150.

**Answer:** A


**NEW QUESTION 15**

Refer to the exhibit. A network engineer is configuring customer edge routers to finalize a L2VPN over MPLS deployment. Assume that the AToM L2VPN service that connects the two CEs is configured correctly on the service provider network.
Which action causes the solution to fail?

A. OSPF does not work with L2VPN services.
B. The routing protocol network types are not compatible.
C. A loopback with a /32 IP address has not been used.
D. The xconnect statement has not been defined.

**Answer:** B

**NEW QUESTION 20**

Refer to the exhibit. Which three outcomes occur if the prefix list is added to the neighbor? (Choose three.)

A. 192.168.0.0/16 is denied.
B. 192.168.0.0/16 is permitted.
C. 192.168.0.0/19 is permitted
D. 192.168.0.0/19 is denied.
E. 192.168.0.0/17 is permitted
F. 192.168.0.0/17 is denied.

**Answer:** ACF

**NEW QUESTION 21**

Refer to the exhibit. A network engineer is implementing a BGP protocol. Which effect of the local-as keyword in this configuration is true?

A. It enables peer 192.168.1.2 to establish a BGP relationship with R1 using AS 65012 without additional configuration.
B. It enables peer 192.168.1.2 to establish a BGP relationship with R1 using AS 65112 and the VPNv4 address family.
C. It enables peer 192.168.1.2 to establish a BGP relationship with R1 using AS 65012 and the VPNv4 address family.
D. It enables peer 192.168.1.2 to establish a BGP relationship with R1 using AS 65112 without additional configuration.

**Answer:** D

**NEW QUESTION 24**

Refer to the exhibit. Based on the show command output, which result is true after BGP session is established?

A. The IOS XR router advertises and accepts all routes to and from eBGP neighbor 192.168.2.2.
B. The IOS XR router advertises all routes to the neighbor 192.168.2.2, but it does not accept any routes from 192.168.2.2.
C. No routes are accepted from the neighbor 192.168.2.2, nor are any routes advertised to it.
D. The IOS XR router does not advertises any routes to the neighbor 192.168.2.2, but it accepts any routes from 192.168.2.2.

**Answer:** C

**NEW QUESTION 28**

Refer to the exhibit. In which way does router R1 operate differently than router R2?

A. R1 sends LSA types 5 and 7, while R2 sends type 1, 2, and 7 LSAs.
B. R1 sends LSA type 2 only, while R2 sends type 1 and type 7 LSAs.
C. R1 sends LSA type 2 only and R2 sends LSA type 1 only.
D. R1 sends LSA types 1 and 2, while R2 sends type 1,2, and 7 LSAs.

**Answer:** D

**NEW QUESTION 32**

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

**Answer:** B

**NEW QUESTION 37**

Which three OSPF parameters must match before two devices can establish an OSPF adjacency? (Choose three.)

A. IP address

B. subnet mask
C. interface cost
D. process ID
E. area number
F. hello timer setting

**Answer:** BEF

**NEW QUESTION 41**
Refer to the exhibit. Which statement about the neighbor statements for 192.168.1.1 is true?

A. The router sends BGP labels for its prefixes to this peer.
B. The router must have TDP configured for the send-label command to operate.
C. The neighbor router receives at least four labels from this router.
D. The router sends only a label for the prefix for Loopback0.

**Answer:** A

**NEW QUESTION 45**

Refer to the exhibit. R1 and R2 are directly connected with Fast Ethernet interfaces and have the above configuration applied OSPF adjacency is not formed.
When the debug ip ospf hello command is issued on R1, these log messages are seen:

Which command can be configured on routers R1 and R2 on f0/0 interfaces to form OSPF adjacency?

A. ip ospf network point-to-multipoint non-broadcast
B. ip ospf network non-broadcast
C. ip ospf network broadcast
D. ip ospf network point-to-point

**Answer:** D

**NEW QUESTION 49**

Refer to the exhibits. R1 and R2 are directly connected and IS-IS routing has been enabled between R1 and R2. R1 generates the above log message periodically. Based on this output, which statement is true?

A. IS-IS neighbor authentication is failing for Level 2 PDUs only.
B. IS-IS neighbor authentication is failing for Level 2 first and then for Level 1 PDUs.
C. IS-IS neighbor authentication is failing for Level 1 and Level 2 PDUs.
D. IS-IS neighbor authentication is failing for Level 1 PDUs only.

**Answer:** D

**NEW QUESTION 54**
How much must the MTU be increased when configuring the 802.1q VLAN tag?

A. 2 bytes
B. 4 bytes
C. 8 bytes
D. 12 bytes

**Answer:** B

**NEW QUESTION 59**
Egress PE NAT is being used via a single centralized router to provide Internet access to L3VPN customers.
Which description of the NAT operation is true?

A. The NAT table contains a field to identify the inside VRF of a translation.
B. Multiple address pools are needed for the same L3VPN because each site has a separate NAT.
C. The different L3VPNs using the Internet access must not have IP overlaps internally.
D. Users in different VRFs cannot share the same outside global IP address.

**Answer:** A

**NEW QUESTION 64**
You are writing an RPL script to accept routes only from certain autonomous systems. Consider this code:
RP/0/RP0/CPU0:router(config-rpl)# if as-path in (ios-regex '.*77$') RP/0/RP0/CPU0:router(config-rpl-if)# pass RP/0/RP0/CPU0:router(config-rpl-if)# endif
If you apply this code to BGP filters, which effect does the code have on your router?

A. denies routes from AS 7070
B. allows routes from AS 7077
C. denies routes from AS 7007
D. allows routes from AS 770

**Answer:** B

**NEW QUESTION 68**
Which regular expression query modifier function indicates the start of a string?

A. +
B. ^
C. $
D. [^]

**Answer:** B

**NEW QUESTION 73**
You are testing the capabilities of MPLS OAM ping. Which statement is true?

A. An LSP is not required for the reply to reach the ingress MPLS router.
B. An LSP breakage results in the ingress MPLS router never receiving any reply.
C. MPLS OAM ping works solely with P2P LSPs.
D. MPLS OAM ping works solely with Cisco MPLS TE.

**Answer:** B

**NEW QUESTION 76**
When configuring traffic engineering tunnels in Cisco MPLS core network, you see the traffic is not tacking the expected path in the core.
Which command do you use to quickly check path of a TE tunnel?

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

**Answer:** D

**NEW QUESTION 77**

Refer to the exhibit. Which statement about this configuration is true?

A. It requires a dynamic Cisco MPLS TE path to be configured for the tunnel to run.
B. It requires OSPF to also be running to have optimized Cisco MPLS TE tunnels.
C. It is the configuration for the head-end router of a Cisco MPLS TE tunnel with segment routing.
D. It requires an explicit Cisco MPLS TE path to be configured for the tunnel to run.

**Answer:** C

**NEW QUESTION 81**
Which statement about segment routing prefix segments is true?

A. It is the longest path to a node.
B. It is linked to an adjacency SID that is globally unique within the router.
C. It is linked to a prefix SID that is globally unique within segment routing domain.
D. It requires using EIGRP to operate.

**Answer:** C

**NEW QUESTION 83**

Refer to the exhibit. Which statement describes the effect of this configuration?

A. It matches HTTP traffic for use in a policy map.
B. It applies a service policy to all interfaces remarking HTTP traffic.
C. It creates an ACL named WEB that filters HTTP traffic.
D. It modifies the default policy map to allow all HTTP traffic through the router.

**Answer:** A

**NEW QUESTION 85**

Refer to the exhibit. A network engineer is implementing QoS services. Which two statements about the qos-group keyword on Cisco IOS XR are true? (Choose two.)

A. It marks packets for end-to-end QoS policy enforcement across the network.
B. QoS group marking occurs on the ingress.
C. The QoS group numbering corresponds to priority level.
D. QoS group can be used in fabric QoS policy as match criteria.
E. It cannot be used with priority traffic class.

**Answer:** BD

**NEW QUESTION 90**

Refer to the exhibit. Which statement supports QPPB implementation?

A. QPPB policies affect only egress traffic.
B. QoS policies rely exclusively on BGP attributes to manipulate traffic.
C. QoS policies are identified in the MPLS forwarding table.
D. QoS policies use BGP to gain full coverage on the network.

**Answer:** D


**NEW QUESTION 91**

Refer to the exhibit. Export statistics received do not include the BGP next hop. Which statement about the NetFlow export statistics is true?

A. Loopback 0 must be participating in BGP for it to be included in the export statistics.
B. To include the BGP next hop in the export statistics, those keywords must be included with the version 9 entry.
C. The origin AS and the peer-as will be included in the export statistics.
D. Only the origin AS of the source router will be included in the export statistics.

**Answer:** B


**NEW QUESTION 96**

Refer to the exhibit. A network administrator wants to enhance the security for SNMP for this configuration. Which action can the network administrator implement?

A. Add a community string to the existing entry.
B. Maintain the configuration but switch to an encrypted password for device access through SSH.
C. Re-configure to use SNMPv2 with MD5 authentication.
D. Re-configure to use SNMPv3.

**Answer:** D


**NEW QUESTION 101**

Refer to the exhibit. If the NetFlow configuration is updated to version 9, which additional piece of information can be reported?

A. IPv4 flow information
B. BGP AS information
C. IPv6 flow information
D. flow sequence numbers

**Answer:** C


**NEW QUESTION 106**

Which service is a VNF role?

A. Network
B. Firewall
C. Storage
D. Compute

**Answer:** A


**NEW QUESTION 111**

Refer to the exhibit. What does the REST API command do?

A. It removes the information identified by Descriptions.xml.
B. It executes the information specified in Descriptions.xml.
C. It retrieves the information requested by Descriptions.xml.
D. It displays the information identified by Descriptions.xml.

**Answer:** C


**NEW QUESTION 116**
Refer to the exhibit. What is the URL used for with REST API?

A. It is used to initiate an FTP session to save a running configuration of a device.
B. It is used to send a message to the APIC to perform an operation on a managed object or class operator.
C. It is used to contact a URL filter to determine the efficacy of a web address.
D. It is used to send a TACACS + authentication request to a server.

**Answer:** B


**NEW QUESTION 117**
Refer to the exhibit. Which statement describes this configuration?

A. Router 1 has a new data store to collect SNMP information, but configuration must still be done at the CLI only.
B. Router 1 can be remotely managed by the CLI using Telnet.
C. Router 1 has its running configuration locked so changes can be made only when the administrator issues a kill session.
D. Router 1 has a temporary data store where a copy of the running configuration can be manipulated and verified before committing the configuration.

**Answer:** D


**NEW QUESTION 122**

Refer to the exhibit. This configuration is being applied on an IOS XR route. Which statement about this configuration is true?

A. It is used to create a sensor-group and has a list of YANG models for streaming.
B. It is used to create a subscription to specify the streaming interval.
C. It is used to identify MIB entries and has a list of YANG models.
D. It is used to identify traps for SNMP polling.

**Answer:** A


**NEW QUESTION 125**
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