



# Cisco

## Exam Questions 350-501

Implementing and Operating Cisco Service Provider Network Core Technologies

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#### 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

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 3

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 4

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 5

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

- A. Router 2 is the router receiving the DDoS attack.
- B. Router 1 must be configured with uRPF for the RTBH implementation to be effective.
- C. Router 1 is the trigger router in a RTBH implementation.
- D. Router 2 must configure a route to null 0 for network 192.168.1.0/24 for the RTBH implementation to be complete.

**Answer: A**

#### NEW QUESTION 6

Which configuration modifies Local Packet Transport Services hardware policies?

**Answer:** C

#### NEW QUESTION 7

Which additional feature does MPLS DiffServ tunneling support?

- A. matching EXP and DSCP values
- B. PHB layer management
- C. using GRE tunnels to hide markings
- D. interaction between MPLS and IGP

**Answer:** B

#### NEW QUESTION 8

You are creating new Cisco MPLS TE tunnels. Which type of RSVP message does the headend router send to reserve bandwidth on the path to the tailend router?

- A. path
- B. tear
- C. error
- D. reservation

**Answer:** A

#### NEW QUESTION 9

An engineer working for telecommunication company needs to secure the LAN network using a prefix list. Which best practice should the engineer follow when he implements a prefix list?

- A. An engineer must identify the prefix list with a number only.
- B. The final entry in a prefix list must be /32.
- C. An engineer must include only the prefixes for which he needs to log activity.
- D. An engineer must use nonsequential sequence numbers in the prefix list so that he can insert additional entries later.

**Answer:** D

#### NEW QUESTION 10

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

- A. It enables MPLS on the interface.
- B. It creates a pseudowire class named cisco.
- C. It enables AToM on interface gigabitethernet1/0.
- D. It enables tagging for VLAN 12 on the interface.

**Answer:** C

#### NEW QUESTION 10

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 12

Which task must be performed first to implement BFD in an IS-IS environment?

- A. Configure BFD in an interface configuration mode.
- B. Disable Cisco Express Forwarding on all interfaces running routing protocols other than IS-IS.
- C. Configure all IS-IS routers as Level 2 devices.
- D. Configure BFD under the IS-IS process.

**Answer:** D

#### NEW QUESTION 13

Which two IS-IS parameters must match before two Level 2 peers can form an adjacency? (Choose two.)

- A. hello timer setting
- B. authentication settings
- C. area ID
- D. system ID
- E. MTU

**Answer:** BE

#### NEW QUESTION 15

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 20

Refer to the exhibit. Which condition must be met by the OSPF peer of router R1 before the two devices can establish communication?

- A. The OSPF peer must use clear-text authentication.
- B. The OSPF peer must be configured as an OSPF stub router.
- C. The interface on the OSPF peer may have a different key ID, but it must use the same key value as the configured interface.
- D. The interface on the OSPF peer must use the same key ID and key value as the configured interface.

**Answer:** D

#### NEW QUESTION 22

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 27

Refer to the exhibit. Which configuration prevents the OSPF neighbor from establishing?

- A. default-metric
- B. duplex
- C. network statement
- D. mtu

**Answer:** D

#### NEW QUESTION 31

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 34

Refer to the exhibit. On R1, which output does the show isis neighbors command generate?

**Answer:** A

#### NEW QUESTION 38

Refer to the exhibit. Assume all other configurations are correct and the network is otherwise operating normally. Which conclusion can you draw about the neighbor relationship between routers R1 and R2?

- A. The neighbor relationship is up.
- B. The neighbor relationship will be up only if the two devices have activated the correct neighbor relationships under the IPv4 address family.
- C. The neighbor is down because the local-as value for R2 is missing in the R1 neighbor statement.
- D. The neighbor relationship is down because R1 believes R2 is in AS 65012.

**Answer:** D

#### NEW QUESTION 42

Refer to the exhibit Router R1 and its peer R2 reside on the same subnet in the network. If an engineer implements this configuration to R1, how does it make connections to R2?

- A. R1 establishes TCP connections that are authenticated with a clear-text password.
- B. R1 establishes UDP connections that are authenticated with an MD5 password.
- C. R1 establishes UDP connections that are authenticated with a clear-text password.
- D. R1 establishes TCP connections that are authenticated with an MD5 password.

**Answer:** D

#### NEW QUESTION 46

Refer to the exhibit. An engineer wants to authenticate the OSPF neighbor between PE-A and PE-B using MD5. Which command on PE-B successfully completes the configuration?

- A. PE-B(config-if)#ip ospf message-digest-key 1 md5 44578611 PE-B(config-if)#ip ospf authentication null
- B. PE-B(config-if)#ip ospf message-digest-key 1 md5 44578611 PE-B(config-if)#ip ospf authentication key-chain 44578611
- C. PE-B(config-if)#ip ospf message-digest-key 1 md5 44568611 PE-B(config-if)#ip ospf authentication null
- D. PE-B(config-if)#ip ospf message-digest-key 1 md5 44578611 PE-B(config-if)#ip ospf authentication message-digest

**Answer:** D

#### NEW QUESTION 47

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 52

How can shared services in an MPLS Layer 3 VPN provide Internet access to the Customers of a central service provider?

- A. Static routes on CE routers allow route leakage from a PE global routing table.
- B. The CE router can establish a BGP peering to a PE router and use the PE device to reach the Internet.
- C. The customer VRF uses route targets to import and export routes to and from a shared services VRF.
- D. Route distinguishers are used to identify the routes that CEs can use to reach the Internet.

**Answer:** C

#### NEW QUESTION 56

Refer to the exhibit. When implementing an LDP protocol, an engineer experienced an issue between two directly connected routers and noticed that no LDP neighbor exists for 1.1.1.1. Which factor should be the reason for this situation?

- A. LDP needs to be enabled on the R2 loopback interface.
- B. LDP needs to be enabled on the R2 physical interface.
- C. R2 does not see any hellos from R1.

D. R2 sees the wrong type of hellos from R1.

**Answer:** B

#### NEW QUESTION 60

A router RP is configured to perform MPLS LDP graceful restart.

Which three steps are included when the RP sends an LDP initialization message to a neighbor to establish an LDP session? (Choose three.)

- A. Learn from Neighbor (N) flag, set to 1
- B. Recovery Time field
- C. Type-9 LSA
- D. Reconnect Timeout field
- E. Graceful restart capability in OPEN message
- F. Learn from Network (L) flag, set to 1

**Answer:** BDF

#### NEW QUESTION 64

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 69

Refer to the exhibit. If router A is the RP, which PIM mode can you configure so that devices will send multicast traffic toward the RP?

- A. PIM-SM
- B. BIDIR-PIM
- C. PIM-SSM
- D. PIM-DM

**Answer:** A

#### NEW QUESTION 74

Why do packet loops occur during the configuration of BIDIR-PIM?

- A. The network does not support BIDIR-PIM.
- B. The network is partially upgraded to support BIDIR-PIM.
- C. The router has not been configured to advertise itself.
- D. No interface for carrying traffic for multicast groups has been configured.

**Answer:** B

#### NEW QUESTION 75

Refer to the exhibit. If router RA is configured as shown, which IPv4 multicast address space does it use?

- A. 224.0.0.0/8
- B. 225.0.0.0/8
- C. 232.0.0.0/8
- D. 239.0.0.0/8

**Answer:** C

#### NEW QUESTION 78

What is the difference between SNMP and model- driven telemetry?

- A. SNMP uses the YANG data modeling language.
- B. Telemetry uses traps and inform messages to deliver data to a network administrator on a polling basis.
- C. Telemetry allows for modeled network data to be pushed to the network administrator on an as-needed basis.
- D. SNMP pushes network data to the network administrator whenever it is queried.

**Answer:** C

#### NEW QUESTION 79

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 81

Which service is a VNF role?

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

**Answer:** A

#### NEW QUESTION 84

Refer to the exhibit. What does this value mean when it is received in XML?

- A. It indicates a value assigned by a network administrator to tag a route.
- B. It indicates a break in a sequence.
- C. It means a data field is blank.
- D. It shows the ending of the script.

**Answer:** D

#### NEW QUESTION 85

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 89

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 92

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