

# Cisco

## Exam Questions 350-501

Implementing and Operating Cisco Service Provider Network Core Technologies



#### NEW QUESTION 1

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 2

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 3

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 4

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 5

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 6**

Which configuration modifies Local Packet Transport Services hardware policies?

A.

B.

C.

D.

**Answer: C**

#### **NEW QUESTION 7**

Which statement describes the advantage of a Multi-Layer control plane?

- A. It provides multivendor configuration capabilities for Layer 3 to Layer 1.
- B. It automatically provisions, monitors, and manages traffic across Layer 0 to Layer 3.
- C. It supports dynamic wavelength restoration in Layer 0.
- D. It minimizes human error configuring converged networks.

**Answer: A**

#### **NEW QUESTION 8**

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?

**Answer:** B

#### NEW QUESTION 9

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 10

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 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 13

A network engineer must enable the helper router to terminate the OSPF graceful restart process if it detects any changes in the LSA. Which command enables this feature?

- A. nsf ietf helper disable
- B. nsf cisco helper disable
- C. nsf ietf helper strict-lsa-checking
- D. nsf cisco enforce global

**Answer:** A

#### NEW QUESTION 14

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 15**

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 20**

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 22**

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 23**

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 28

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 33

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 36

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 37

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 40

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 41

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

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

**Answer:** D

#### NEW QUESTION 43

DRAG DROP

Drag and drop each NAT64 description from the left onto the correct NAT64 type on the right.  
Select and Place:

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

#### NEW QUESTION 44

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 49

Refer to the exhibit. An engineer is preparing to implement link aggregation configuration. Which statement about this configuration is true?

- A. The switch port negotiates an EtherChannel if it receives LACP packets from a connected peer running passive mode.
- B. The switch port actively sends packets to negotiate an EtherChannel using PAgP.
- C. The switch port passively negotiates an EtherChannel if it receives PAgP packets from a connected peer.
- D. The switch port accepts LACP and PAgP packets from a connected peer and negotiate an EtherChannel using the common EtherChannel mode.

**Answer:** B

#### NEW QUESTION 51

Which regular expression query modifier function indicates the start of a string?

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

**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

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 59

In an MPLS network, which protocol can be used to distribute a Segment Prefix?

- A. LDP
- B. EIGRP
- C. OSPF
- D. RSVP-TE

**Answer:** C

#### NEW QUESTION 62

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 67

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 70

Refer to the exhibit. After implementing a new design for the network, a technician reviews the pictures CLI output as part of the MOP. Which two elements describe what the technician can ascertain from the ImpNull output? (Choose two.)

- A. Ultimate Hop Popping is in use for the prefix displayed.
- B. Penultimate Hop Popping is in use for the prefix displayed.
- C. Label 0 is used for the prefix displayed, but will not be part of the MPLS label stack for packets destined for 192.168.10.10.
- D. Label 3 is in use for the prefix displayed and will be part of the MPLS label stack for packets destined for 192.168.10.10.
- E. Label 0 is used for the prefix displayed and will be part of the MPLS label stack for packets destined for 192.168.10.10.

**Answer:** BE

#### NEW QUESTION 73

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 76

Refer to the exhibit. A network engineer is implementing a BGP routing policy. Which effect of this configuration is true?

- A. All traffic that matches acl10 is allowed without any change to its local-preference.
- B. All traffic that matches acl10 is dropped without any change to its local-preference.
- C. If traffic matches acl10, it is allowed and its local-preference is set to 300.
- D. All traffic is assigned a local-preference of 300 regardless of its destination.

**Answer:** A

#### **NEW QUESTION 80**

Refer to the exhibit. You are configuring an administrative domain in the given multi-vendor environment with PIM-SM. Which feature can you implement so that devices can dynamically learn the RP?

- A. BSR
- B. BIDIP-PIM
- C. Auto-RP
- D. SSM

**Answer:** C

#### **NEW QUESTION 84**

Refer to the exhibit. What is significant about the number 2 in the configuration?

- A. It indicates two SNMP managers can read and write with the agent using community string ciscotest.
- B. It dictates the number of sessions that can be open with the SNMP manager.
- C. It is the numeric name of the ACL that contains the list of SNMP managers with access to the agent.
- D. It represents the version of SNMP running.

**Answer:** C

#### **NEW QUESTION 87**

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

- A. It is used to enable gRPC.
- B. It is used to create a streaming subscription with a 600-second interval.
- C. It is used to set up configuration to poll network data.
- D. It is used to create a streaming subscription with a 60-Second interval.

**Answer:** D

#### **NEW QUESTION 90**

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 93**

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 94**

Refer to the exhibit. This output is included at the end of an output that was provided by a device using NETCONF. What does the code show?

- A. It shows that the full configuration is being modeled by YANG.
- B. It shows NETCONF uses remote procedure calls.
- C. It shows the hostname of the device as rpc-reply.
- D. It shows that the running configuration is blank.

**Answer: B**

#### **NEW QUESTION 97**

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.

**Answer: B**

#### **NEW QUESTION 100**

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