

# 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

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 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

Refer to the exhibits. Which information is provided for traceback analysis when this configuration is applied?

- A. source interface
- B. packet size distribution
- C. IP sub flow cache
- D. BGP version

**Answer:** C

#### NEW QUESTION 5

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 6

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 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

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 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

Which MPLS design attribute can you use to provide Internet access to a major customer through a separate dedicated VPN?

- A. The Internet gateway router is connected as a PE router to the MPLS backbone.
- B. The CE router supports VRF-Lite and the full BGP routing table.
- C. The Internet gateway inserts the full Internet BGP routing table into the Internet access VPN.
- D. The customer that needs the Internet access service is assigned to the same RTs as the Internet gateway.

**Answer:** D

#### NEW QUESTION 10

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 13

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 17

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 19**

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 20**

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 24**

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

**Answer:** A

#### NEW QUESTION 25

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 26

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 31

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 33

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 38

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 42

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 46

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.

**Answer:** A

#### NEW QUESTION 48

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 49

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 53

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 54

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 57

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 59

A regional MPLS VPN provider operates in two regions and wants to provide MPLS L3VPN service for a customer with two sites in these separate locations. The VPN provider approaches another organization to provide backbone carrier services so that the provider can connect to these two locations. Which statement about this scenario is true?

- A. When edge routers at different regional sites are connected over the global carrier backbone, MP-eBGP must run between the routers to exchange the customer VPNv4 routes.
- B. When eBGP is used for label exchange using the send-label option, MPLS-BGP forwarding is configured under the global ABC CSC PE-to-CE interface.
- C. When BGP is used for both route and label exchange, the neighbor a.b.c.d send-label command is used under the address-family VPNv4 command mode.
- D. When IGP is used for route exchange and LDP for label exchange, MPLS is enabled only on the VRF interface on the backbone-carrier PE side.

**Answer:** B

#### NEW QUESTION 62

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

**Answer:** A

#### NEW QUESTION 63

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 67

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 70

How can a network administrator secure rest APIs?

- A. They can have a general administrator login for multiple users to access that has command entries logged.
- B. They can authenticate user sessions and provide the appropriate privilege level.
- C. They can ensure that user sessions are authenticated using TACACS+ only.
- D. They can allow read and write privileges to all users.

**Answer: B**

## NEW QUESTION 72

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 74

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 76

Which service is a VNF role?

- A. Network
- B. Firewall



- C. Storage
- D. Compute

**Answer:** A

#### NEW QUESTION 81

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 84

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 85

Which two uses of the YANG data modeling language are true? (Choose two.)

- A. It can be used to model the configuration used by NETCONF operations.
- B. It can be used to access a device by HTTP.
- C. It can be used to replace the OSI model for troubleshooting.
- D. It can be used to shape state data of network elements.
- E. It can be used to replace RESTCONF as a mechanism to install and manipulate configuration.

**Answer:** AC

#### NEW QUESTION 89

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 94

What do Ansible and SaltStack have in common?

- A. They both have agents running on the client machine.
- B. They both can be designed with more than one master server.
- C. They both use DSL configuration language.
- D. They both use YAML configuration language.

**Answer:** D

#### NEW QUESTION 95

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 100

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 105**

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