



Cisco

Exam Questions 350-501

Implementing and Operating Cisco Service Provider Network Core Technologies

NEW QUESTION 1

Refer to the exhibit. P3 and PE4 are at the edge of the service provider core and serve as ABR routers. Aggregation areas are on either side of the core. Which statement about the architecture is true?

- A. To support seamless MPLS, the BGP route reflector feature must be disabled.
- B. If each area is running its own IGP, BGP must provide an end-to-end MPLS LSP.
- C. If each area is running its own IGP, the ABR routers must redistribute the IGP routing table into BGP.
- D. To support seamless MPLS, TDP must be used as the label protocol.

Answer: B

NEW QUESTION 2

Which configuration mode do you use to apply the mpls ldp graceful-restart command in IOS XE Software?

- A. MPLS LDP neighbor
- B. interface
- C. MPLS
- D. global

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

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 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 7

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 8

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 9

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 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 15

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

A. The two routers fail to form a neighbor relationship because they have different IS-IS area types.

B. The two routers successfully form a neighbor relationship.

C. The two routers fail to form a neighbor relationship because the authentication configuration is missing.

D. The two routers fail to form a neighbor relationship because their system IDs are different.

Answer: B

NEW QUESTION 18

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 19

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 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 23

Which two tasks must you perform when you implement LDP NSF on your network? (Choose two.)

- A. Enable NSF for BGP.
- B. Implement direct connections for LDP peers.
- C. Enable NSF for EIGRP.
- D. Disable Cisco Express Forwarding.
- E. Enable NSF for the link-state routing protocol that is in use on the network.

Answer: BE

NEW QUESTION 24

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

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 28

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

- A. +
- B. ^
- C. \$

D. [^]

Answer: B

NEW QUESTION 31

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 32

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 33

Which utility can you use to locate MPLS faults?

- A. MPLS LSP ping
- B. QoS
- C. MPLS traceroute
- D. EEM

Answer: C

NEW QUESTION 37

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 38

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 40

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 43

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 47

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 48

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 52

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 54

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 57

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 62

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 66

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 71

Which service is a VNF role?

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

Answer: A

NEW QUESTION 72

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 75

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 76

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 79

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 80

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 85

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 90

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