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
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 4
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 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 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?

A.

B.

C.

D.

Answer: B

NEW QUESTION 9
Which configuration enables BGP FlowSpec client function and installation of policies on all local interfaces?

A. flowspec address- family ipv4 local-install interface-all
B. flowspec address- family ipv4 install interface-all local
C. flowspec address- family ipv4 install interface-all
D. flowspec address- family ipv4 local-install all-interface

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
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 12
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
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 16
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 19

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 23

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 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 30

Refer to the exhibit. Which purpose of implementing NSF with this configuration is true?

A. The router uses NSF to handle RP switchover while allowing neighbor relationships to remain up.
B. The router uses NSF to reduce neighbor-relationship downtime during RP switchover.
C. The router uses NSF to load balance traffic on a routed EtherChannel.
D. The router uses NSF to load balance traffic between two links, with the primary link alternating every 90 seconds.

Answer: A

NEW QUESTION 32
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 35

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 40

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 44
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 47

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 48

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 50

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
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 55
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 58
Which regular expression query modifier function indicates the start of a string?

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

Answer: B

NEW QUESTION 59
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 63
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 64

Refer to the exhibit. With which router does IOSXRV-1 have LDP session protection capability enabled but session hold up is not active?

A. 192.168.0.4
B. 192.168.0.5
C. 192.168.0.1
D. 192.168.0.3

Answer: B

NEW QUESTION 68

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 69
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 72

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 75

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 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 81
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 85
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 90
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 91

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 96
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 99

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 100
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 105

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 110
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 115

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 120
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