

350-501 Dumps

Implementing and Operating Cisco Service Provider Network Core Technologies

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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

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

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

```

Router 1:

ip route 192.168.1.0 255.255.255.0 null 0 tag 1

route-map ddos
 match tag 1
 set local preference 150
 set community no export

route-map ddos permit 20

router bgp 65513
 redistribute static route-map ddos

Router 2:

Interface gigabitethernet0/1
 ip verify unicast reverse-path
    
```

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 5

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 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

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 8

```
R1
router bgp 65000
router-id 192.168.1.1
neighbor 192.168.1.2 remote-as 65012
neighbor 192.168.1.2 local-as 65112
```

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 9

```
RP/0/0/CPU0:router# show bgp neighbors 192.168.2.2

BGP neighbor is 192.168.2.2, remote AS 1, local AS 140, external link
Remote router ID 0.0.0.0
  BGP state = Idle
  Last read 00:00:00, hold time is 180, keepalive interval is 60 seconds
  Received 0 messages, 0 notifications, 0 in queue
  Sent 0 messages, 0 notifications, 0 in queue
  Minimum time between advertisement runs is 15 seconds

For Address Family: IPv4 Unicast
  BGP neighbor version 0
  Update group: 0.1
  eBGP neighbor with inbound or outbound policy; defaults to 'drop'
  Route refresh request: received 0, sent 0
  0 accepted prefixes
  Prefix advertised 0, suppressed 0, withdrawn 0, maximum limit 524288
  Threshold for warning message 75%

Connections established 0; dropped 0
Last reset 00:02:03, due to BGP neighbor initialized
External BGP neighbor not directly connected.
```

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 10

```
R1
router ospf 1
  area 2 stub no-summary

R2
router ospf 1
  area 3 nssa
```

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 10

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 13

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 15

```
R1
interface fastethernet1/0
  ip address 192.168.2.14 255.255.255.0
  ip ospf message-digest-key 1 md5 cisco
  ip ospf authentication message-digest
```

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 16

```
PE-A#config t
PE-A(config)#interface FastEthernet0/0
PE-A(config-if)#ip ospf message-digest-key 1 md5 44578611
PE-A(config-if)#ip ospf authentication message-digest

PE-B#config t
PE-B(config)#interface FastEthernet0/0
```

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 21

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 22

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

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

Answer: B

NEW QUESTION 23

```
R1

ip cef distributed
mpls ldp graceful-restart
interface GigabitEthernet 0/0/1
  mpls ip
  mpls label protocol ldp
```

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 25

```
mpls label protocol ldp
mpls ldp router-id loopback 0
mpls ip
ip cef
```

Refer to the exhibit. A network operator working for service provider with an employee id: 1234:56:789 applied this configuration to a router. Which additional step should the engineer use to enable LDP?

- A. Enable MPLS LDP on the interface.
- B. Disable Cisco Express Forwarding globally.
- C. Delete the static router ID.
- D. Configure the both keyword to enable LDP globally.

Answer: A

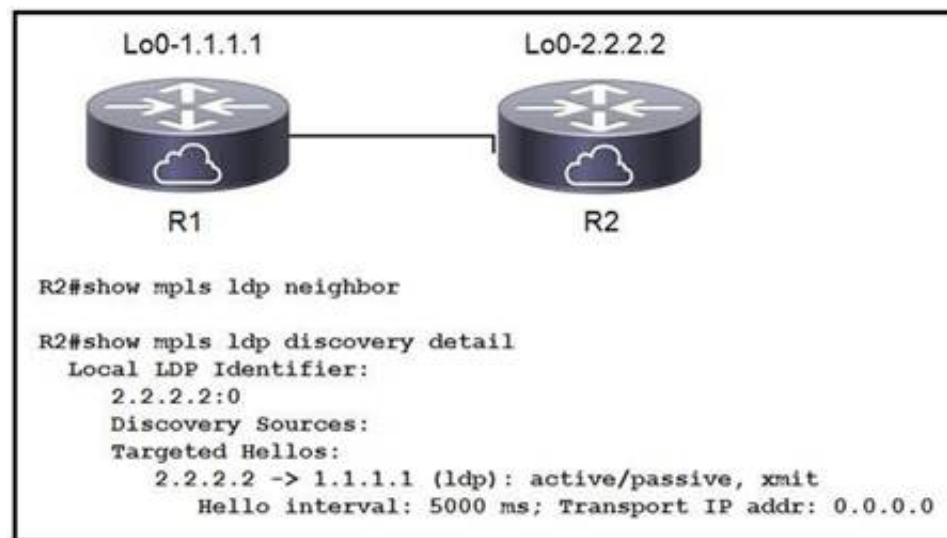
NEW QUESTION 29

Which utility can you use to locate MPLS faults?

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

Answer: C

NEW QUESTION 32

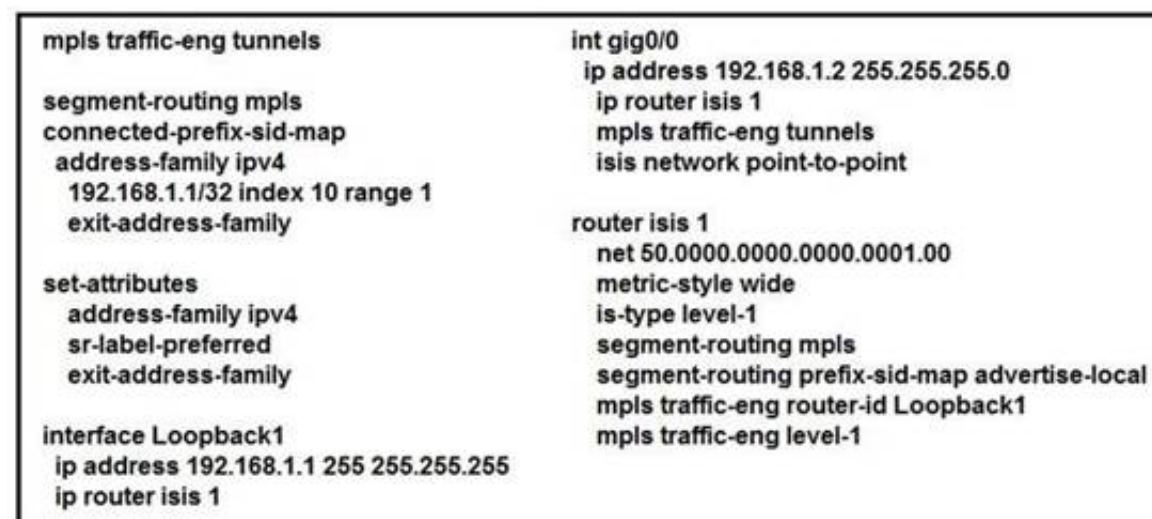


Refer to the exhibit. When implementing an LDP protocol, an engineer experienced an issue between two directly connected routers and noticed that no LDP neighbor exists for 1.1.1.1. Which factor should be the reason for this situation?

- 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 33



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

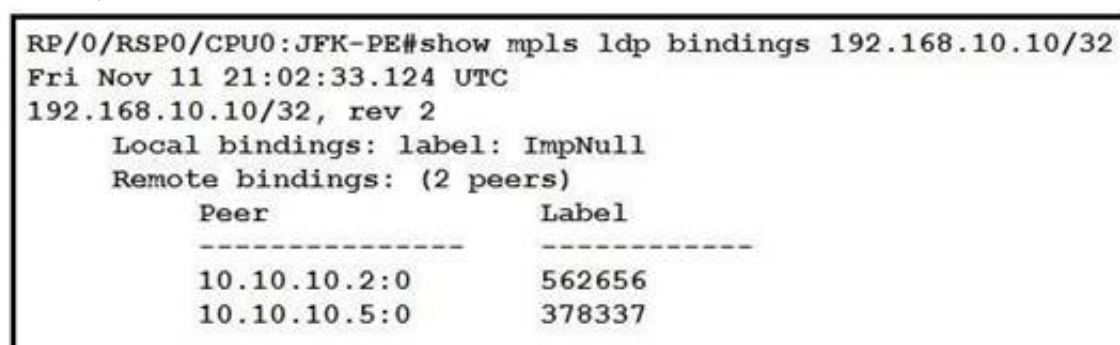
NEW QUESTION 36

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 41



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 46

```
class-map WEB
  match protocol http
```

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 48

```
route-policy qppb-as6000
if as-path in (ios-regex '61100, 61200, 61300') then
  set qos-group 10

router bgp 100 bgp
  table-policy qppb-as6000
```

Refer to the exhibit. Which statement supports QPPB implementation?

- A. QPPB policies affect only egress traffic.
- B. QoS policies rely exclusively on BGP attributes to manipulate traffic.
- C. QoS policies are identified in the MPLS forwarding table.
- D. QoS policies use BGP to gain full coverage on the network.

Answer: D

NEW QUESTION 53

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 58

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 61

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 64

Which service is a VNF role?

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

Answer: A

NEW QUESTION 68

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 72

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 75A rectangular box containing the text "<tag/>".

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 76

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 79A rectangular box containing two lines of text: "<data>" on the top line and "<rpc-reply>" on the bottom line.

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 84

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