

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

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

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

```
ip flow-export destination 192.168.1.2
ip flow-export version 9

interface gigabitethernet0/1
ip flow ingress
```

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

Which configuration modifies Local Packet Transport Services hardware policies?

- A. **configure**
lpts police
exception invalid rate 400
protocol cdp rate 50
protocol arp rate 5000
- B.

B.

```
configure
!
lpts pifib police hardware
flow ospf unicast default rate 200
flow bgp configured rate 200
flow bgp default rate 100
!
lpts pifib police hardware location 0/2
flow ospf unicast default rate 100
flow bgp configured rate 300
flow icmp application rate 100
flow icmp default rate 100
!
```

- C. **configure**
- ```
lpts pifib hardware police
flow ospf unicast default rate 200
flow bgp configured rate 200
flow bgp default rate 100
!
lpts pifib hardware police location 0/2/CPU0
flow ospf unicast default rate 100
flow bgp configured rate 300
flow icmp application rate 100
flow icmp default rate 100
!
```
- D. **configure**
- ```
lpts punt police location 0/0/CPU0
exception invalid rate 400
protocol cdp rate 50
protocol arp rate 5000
protocol ipv4 options rate 100
exception icmp rate 200
```

Answer: C

NEW QUESTION 6

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 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

```
PE-A#show ip bgp vpv4 vrf Customer-A neighbors 10.10.10.2 routes
BGP table version is 13148019, local router ID is 10.10.10.10
Status codes: s suppressed, d damped, h history, * valid, > best, i - internal,
               r RIB-failure, S Stale, m multipath, b backup-path, f RT-Filter,
               x best-external, a additional-path, c RIB-compressed,
Origin codes: i - IGP, e - EGP, ? - incomplete
RPKI validation codes: V valid, I invalid, N Not found

   Network          Next Hop          Metric LocPrf Weight Path
Route Distinguisher: 65000:1111 (default for vrf Customer-A)
*>    192.168.0/19    10.10.10.2          0         0 4282 65001 ?
*>    192.168.0/17    10.10.10.2          0         0 4282 65001 ?
*>    192.168.0/16    10.10.10.2          0         0 4282 65001 ?

Total number of prefixes 5

PE-A#config t
Enter configuration commands, one per line. End with CNTL/Z.
PE-A(config)#ip prefix-list ALLOW permit 192.168.0.0/16 ge 17 le 19
PE-A(config)#router bgp 65000
PE-A(config-router)#address-family ipv4 vrf Customer-A
PE-A(config-router-af)#neighbor 10.10.10.2 prefix-list ALLOW in
```

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 9

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 10

```
R1
router isis
 net 49.0012.1111.1111.1111.00
 is-type level-1
 area-password cisco
R2
router isis
 net 49.0022.1111.1111.1112.00
 is-type level-1-2
 area-password cisco
```

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 10

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 14

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 18

```
R2#sh cins neighbors detail
Tag TEST:
System Id   Interface   SNPA        State Holdtime   Type Protocol
R1          Fa0/0       ca01.2178.0008 Up    89          L1L2 IS-IS
Area Address(es): 49
Uptime: 00:03:29
NSF capable
Interface name: FastEthernet0/0
```

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

- A. Tag TEST:

System Id	Type	Interface	IP Address	State	Holdtime	Circuit Id
R2	L1	Fa0/0	UP 7			R2.01
R2	L2	Fa0/0	UP 9			R2.01
- B. Tag TEST:

System Id	Type	Interface	IP Address	State	Holdtime	Circuit Id
R2	L2	Fa0/0	UP 7			R2.01
R2	L2	Fa0/0	UP 9			R2.01
- C. Tag TEST:

System Id	Type	Interface	IP Address	State	Holdtime	Circuit Id
R2	L2	Fa0/0	UP 9			R2.01
- D. Tag TEST:

System Id	Type	Interface	IP Address	State	Holdtime	Circuit Id
R2	L1	Fa0/0	UP 7			R2.01

Answer: A

NEW QUESTION 23

```
R1
interface fastethernet1/0
 ip address 192.168.1.3 255.255.255.0
router bgp 65000
 router-id 192.168.1.1
 neighbor 192.168.1.2 remote-as 65012

R2
interface fastethernet1/0
 ip address 192.168.1.2 255.255.255.0
router bgp 65012
 router-id 192.168.1.1
 neighbor 192.168.1.3 remote-as 65000
 neighbor 192.168.1.3 local-as 65112
```

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 27

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 30

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 32

```
RP/0/RSP0/CPU0:JFK-PE#show mpls ldp bindings 192.168.10.10/32
Fri Nov 11 21:02:33.124 UTC
192.168.10.10/32, rev 2
  Local bindings: label: ImpNull
  Remote bindings: (2 peers)
      Peer          Label
      -----
      10.10.10.2:0   562656
      10.10.10.5:0   378337
```

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 36

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 39

```
class-map match-any class1
match-protocol ipv4
match qos-group 4
```

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 43

```
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 47

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 52

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 57

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 60

```
<data>
<rpc-reply>
```

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 63

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 66

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