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Implementing Cisco Service Provider Advanced Routing Solutions (SPRI)

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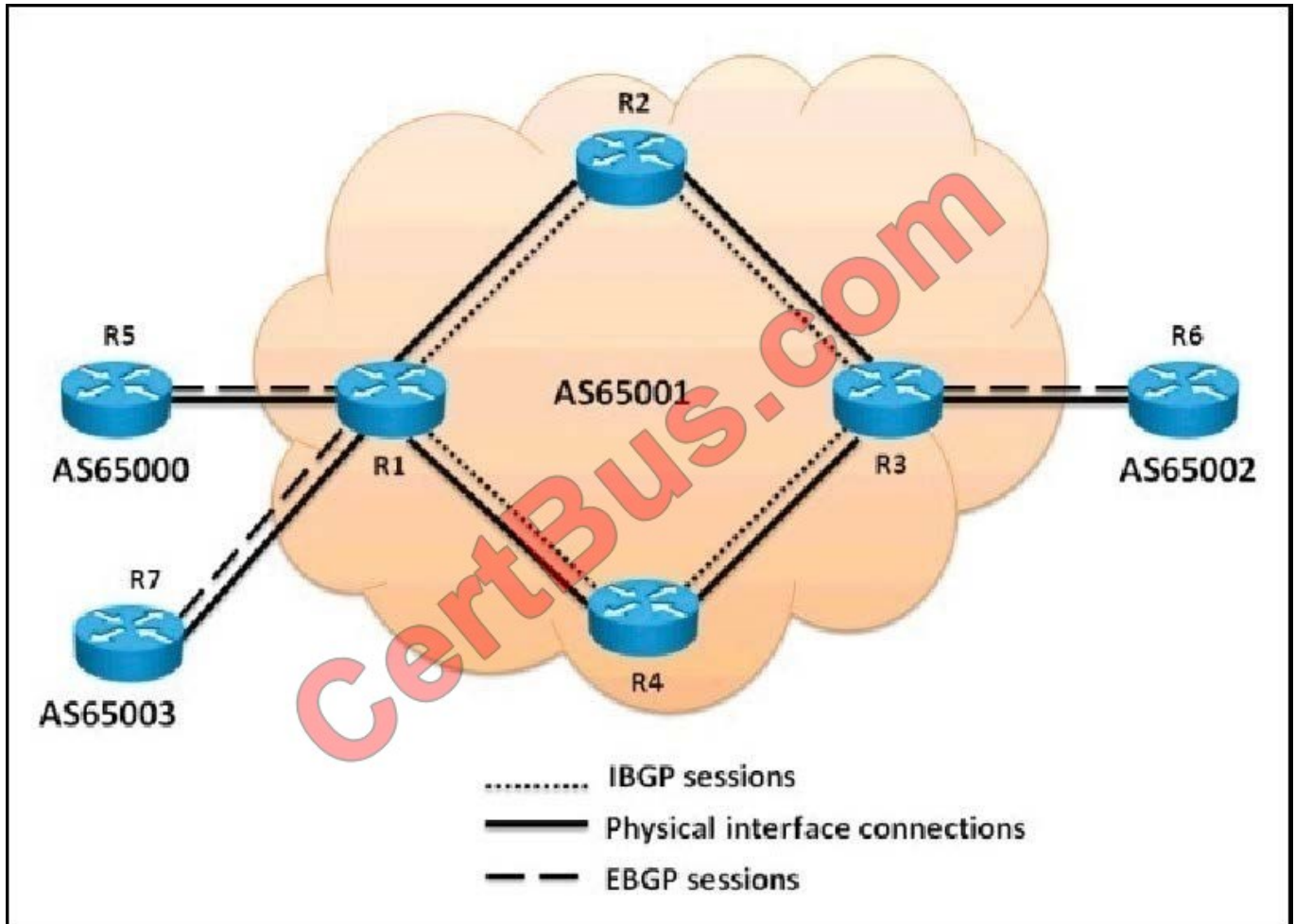Following Questions and Answers are all new published by Cisco Official Exam Center

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QUESTION 1

Referring to the topology diagram show in the exhibit, which three statements are correct regarding the BGP routing updates? (Choose three.)

A. The EBGP routing updates received by R1 from R5 will be propagated to the R2, R4, and R7 routers

B. The EBGP routing updates received by R3 from R6 will be propagated to the R2 and R4 routers

C. The EBGP routing updates received by R1 from R5 will be propagated to the R2 and R4 routers

D. The IBGP routing updates received by R3 from R2 will be propagated to the R6 router

E. The IBGP routing updates received by R2 from R1 will be propagated to the R3 router

F. The IBGP routing updates received by R1 from R4 will be propagated to the R5, R7, and R2 routers

Correct Answer: ABD

QUESTION 2
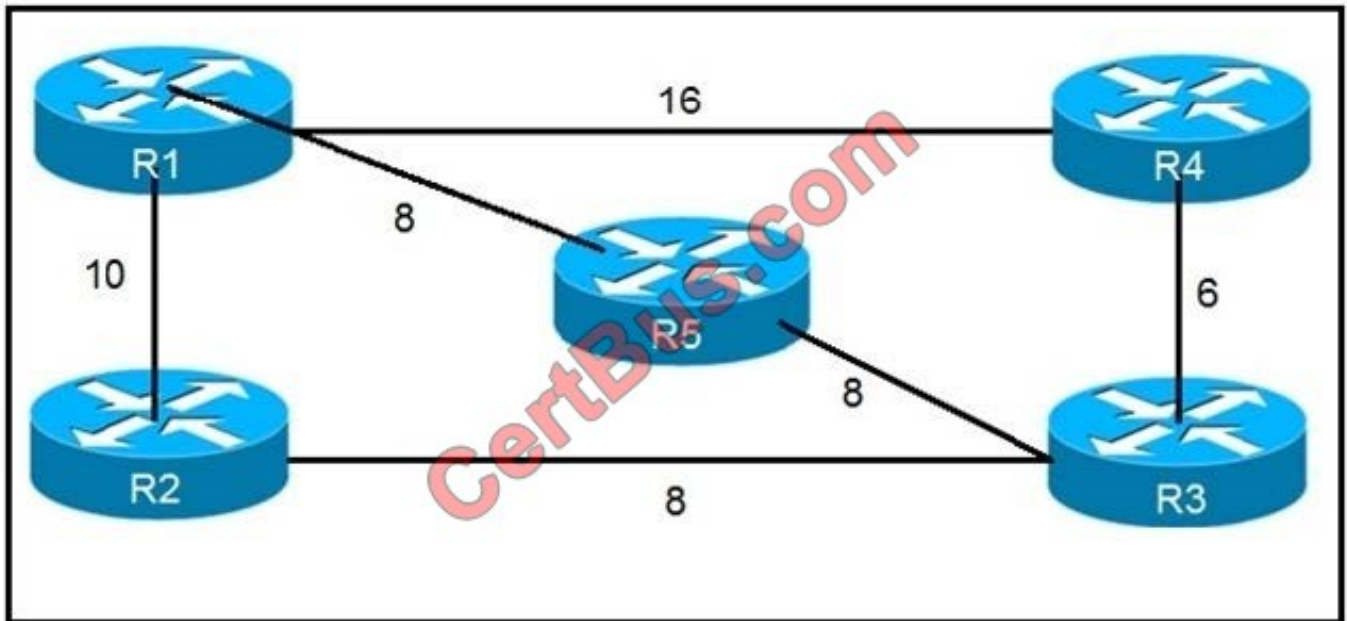
Refer to the exhibit. Which router does R1 install as an alternate next hop when trying to reach R3 if LFA is enabled?

A. R5

B. R3

C. R4

D. R2

Correct Answer: D

QUESTION 3

A network engineer is troubleshooting OSPF multiarea. Which Cisco IOS XR feature should the engineer use in order to streamline OSPF issue?
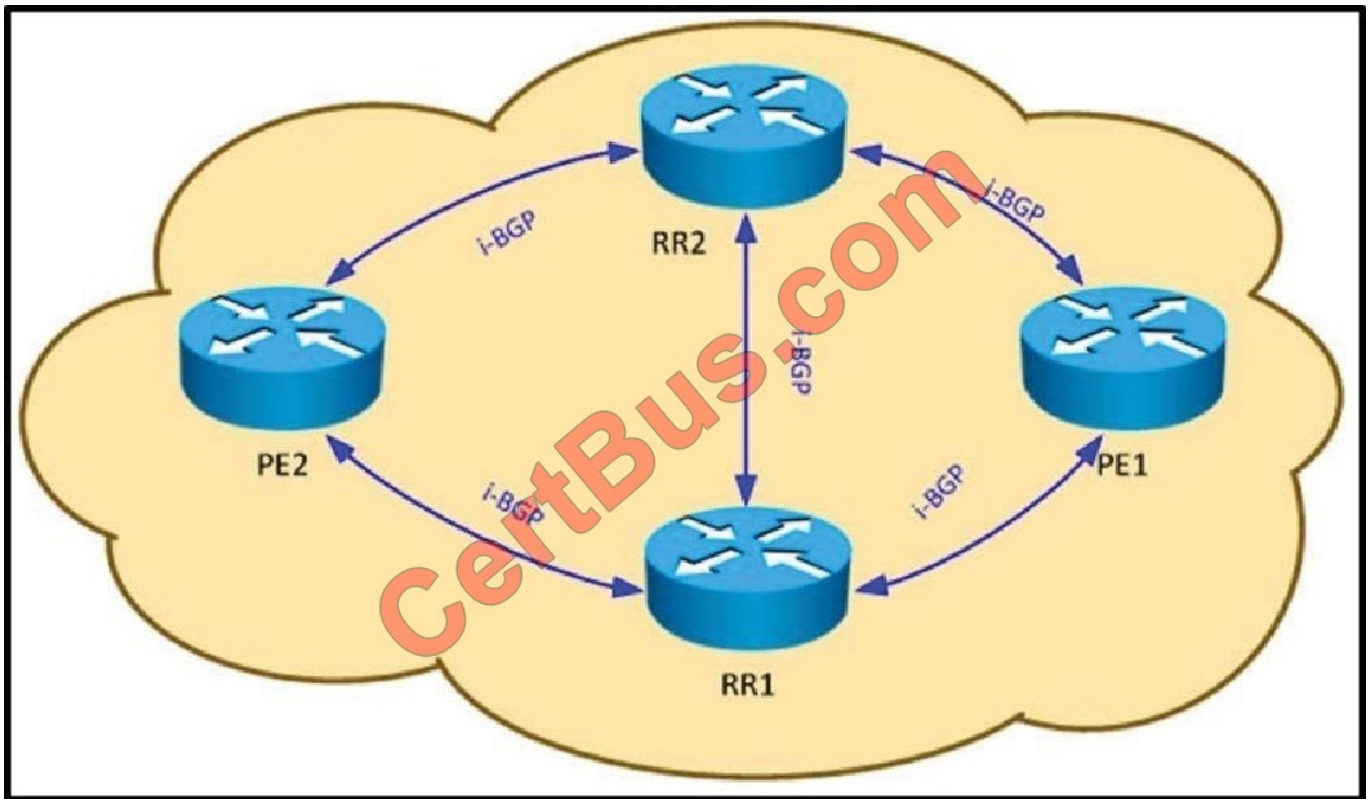
A. hierarchical CLI

B. DR support for topology management

C. routing process enabled by default on all interfaces

D. show ip ospf topology command

Correct Answer: A

Reference: https://www.cisco.com/c/en/us/td/docs/routers/xr12000/software/xr12k_r4-0/routing/configuration/guide/rc40 xr12k_chapter4.html#con_1059437

QUESTION 4

Refer to the exhibit.

Which configuration ensures that RR2 does not send the same updates to PE2 that RR1 learns via PE1?

A. RR1 and RR2 should have different router IDs.

B. RR1 and RR2 should have different originator IDs.

C. RR1 and RR2 should have the same router IDs.

D. RR1 and RR2 should have the same cluster IDs.

Correct Answer: D

QUESTION 5

Which statement about enabling segment routing for IGPs is true?

A. Segment routing must first be enabled under then routing process and then globally

B. Segment routing must first be enabled globally and then under the routing process

C. Segment routing can be enabled only under the routing process

D. Segment routing can be enabled only globally

Correct Answer: B

Reference: https://www.cisco.com/c/en/us/td/docs/ios-xml/ios/seg_routing/configuration/xe-16-6/segrt-xe-16-6-book/sr-ospfv2-node-sid.html

QUESTION 6

```
R4#show ip pim interface

Address         Interface         Ver/      Nbr       Query     DR        DR
                                  Mode      Count     Intvl     Prior

10.1.1.1        FastEthernet0/0   v2/S      1         30        1         10.1.1.2
```

Refer to the exhibit. Which two commands must the engineer configure for the company\\'s PIM-SM network to enable Auto-RP mappings to be sent over the FastEthernet0/0 interface, without affecting normal operation? (Choose two.)

A. enable auto-rp listener

B. enable sparse-mode

C. enable Auto-RP announcements

D. enable sparse-dense mode

E. enable dense mode

Correct Answer: AB

QUESTION 7

After an engineer configures BGP in R1, it starts receiving this message Jun 29 13:30:50.122: %BGP-5-ADJCHANGE: neighbor 192.168.10.1 Down User reset Jun 29 13:30:52.341: %BGP-3-NOTIFICATION: sent to neighbor 192.168.10.1 2/6 (unacceptable hold time) 0 bytes Which action makes the peering come back up again?

A. Make a soft reset to the peer.

B. Set up a minimum hold-down timer higher.

C. Set up a hello timer higher.

D. Set up a hold-down timer higher.

Correct Answer: B

QUESTION 8

6 / 10

```
R1
interface gigabitethernet0/0
    ip address 192.168.2.1 255.255.255.0
    ip router isis
router isis
    net 49.0022.1111.1111.1111.00
    is-type level-1

R2
interface gigabitethernet0/1
    ip address 192.168.1.2 255.255.255.0
    ip router isis
router isis
    net 49.0021.1111.1111.1112.00
    is-type level-1
```

Refer to the exhibit. Routers R1 and R2 cannot form a neighbor relationship, but the network is otherwise configured correctly and operating normally. Which two statements describe the problem? (Choose two.)

A. The two routers are in the same area

B. The two routers are in different subnets

C. The two routers have password mismatch issues

D. The two routers have the same network ID

E. The two routers are in different areas

Correct Answer: BE

QUESTION 9

Refer to the exhibit. How are packets directed through the data plane when SRv6 is implemented?
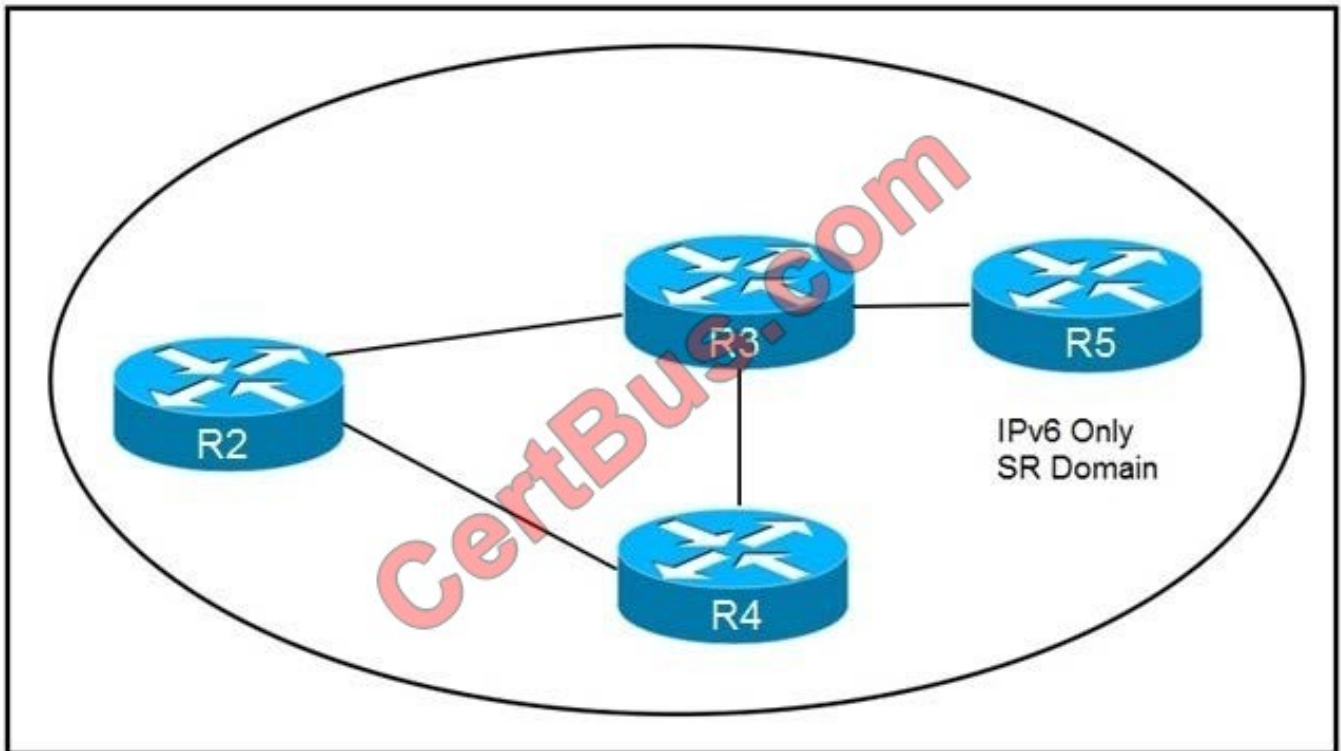
A. An ordered list of segments is encoded in a routing extension header

B. The MPLS data plane is used to push labels onto IGP routes

C. A stack of labels represents an ordered list of segments

D. The packet is encapsulated with a header and trailer encoding the ordered list of segments

Correct Answer: A

Reference: https://www.ciscolive.com/c/dam/r/ciscolive/emea/docs/2019/pdf/BRKIPM-2249.pdf

QUESTION 10

After you change the IP address on an IOS XR router, you cannot ping the new address.

Which step did you forget to complete?

A. commit the configuration

B. roll back the configuration

C. merge the configuration

D. save the running configuration

Correct Answer: A

QUESTION 11

For which reason do you deploy BGP confederations within a BGP transit backbone?

A. to support a larger number of eBGP peer sessions

B. to increase the number of routes that can be redistributed between the running IGP and BGP

C. to reduce the number of eBGP routes that must be shared between autonomous systems

D. to reduce the number of iBGP peering sessions

Correct Answer: D

QUESTION 12

Refer to the exhibit.

```
Router 1:

pce
  address ipv4 192.168.1.1

Router 2:

router isis
  distribute link-state instance-id 40

router bgp 65515
  address-family link-state link-state
  neighbor 192.168.1.1 remote-as 65515
  update-source Loopback0
  address-family link-state link-state
```

What is the relationship between Router 1 and Router 2?

A. Router 1 centrally learns the topology of the network to aid in SR-TE path selection, and Router 2 is a node that feeds Router 1 topology information.

B. Router 1 and Router 2 are participating in SR-TE tunnels and are both head-end routers.

C. Router 1 and Router 2 centrally learn the topology of the network to aid in SR-TE path selection for peers.

D. Router 2 is the head-end router in an SR-TE tunnel, and it is learning topology of the network from the PCE enabled

on Router 1.

Correct Answer: D

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