

350-501 Q&As

Implementing and Operating Cisco Service Provider Network Core Technologies (SPCOR)

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QUESTION 1

What is the primary role of a BR router in a 6rd environment?

- A. It provides connectivity between end devices and the IPv4 network
- B. It provides IPv4-in-IPv6 encapsulation
- C. It connects the CE routers with the IPv6 network
- D. It embeds the IPv4 address in the 2002::/16 prefix

Correct Answer: C

QUESTION 2

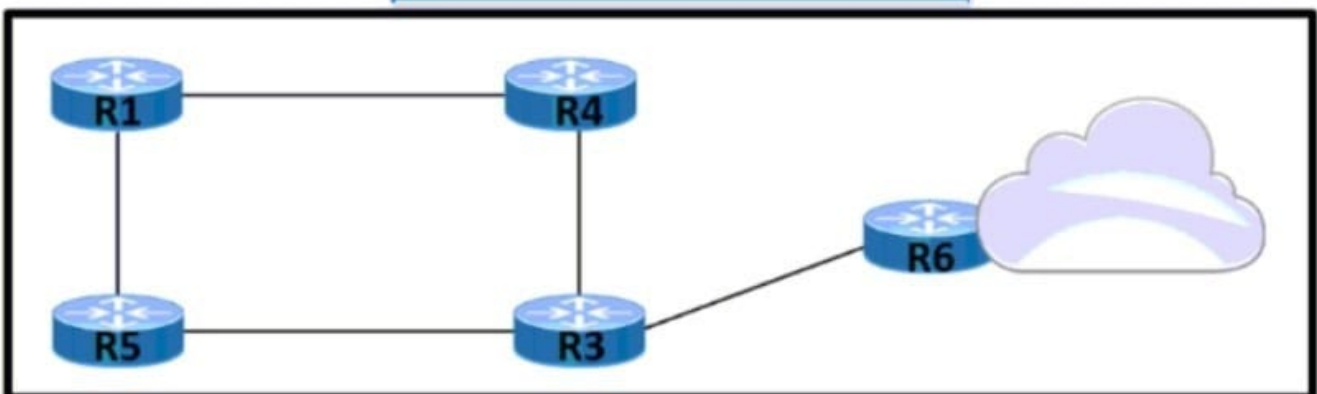
An engineer is trying to implement BGP in a multihomed architecture. What must the engineer configure to influence inbound path selection?

- A. A route map with WEIGHT attribute to control the inbound traffic.
- B. An offset list to set the metric for routes received from neighboring autonomous systems.
- C. An access list to identify traffic and enable it on both of the provider-facing interfaces.
- D. A route map with AS_PATH attribute to control the inbound traffic.

Correct Answer: D

QUESTION 3

Refer to the exhibit.



An organization's network recently experienced several significant outages due to device failures. The network administrator just moved the network devices to a new central data center, and packets are switched using labels. The

administrator is now implementing NSF on the network to reduce potential risk factors in the event of another outage.

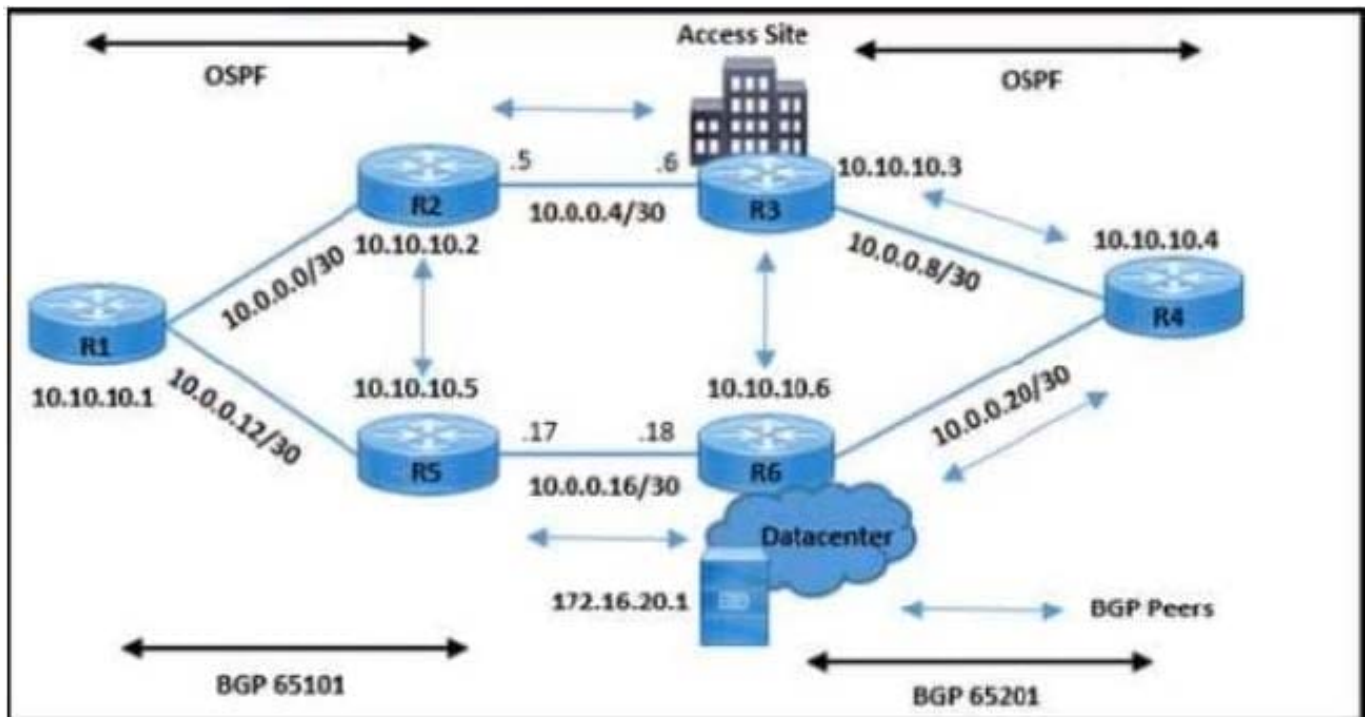
Which task must the administrator perform on each router as part of the process?

- A. Remove route filtering to speed repopulation of the link-state database
- B. Copy the router's existing state information and share the file with its peers to enable BGP soft resets
- C. Implement MPLS to forward packets while the RIB updates after a failover.
- D. Implement Graceful Restart to mitigate the delay in MPLS LDP synchronization when the IGP starts up.

Correct Answer: D

QUESTION 4

Refer to the exhibit.



```
R3#show ip route
 192.168.30.0/32 is subnetted, 1 subnets
B    192.168.30.1 [200/0] via 10.10.10.4, 00:39:23
 172.16.0.0/32 is subnetted, 2 subnets
O    172.16.20.1 [110/3] via 10.0.0.10, 00:05:39, GigabitEthernet2/0
B    172.16.10.10 [200/0] via 10.10.10.1, 00:39:23
 10.0.0.0/8 is variably subnetted, 15 subnets, 3 masks
C    10.0.0.8/30 is directly connected, GigabitEthernet2/0
O    10.0.0.12/30 [110/3] via 10.0.0.5, 00:41:16, FastEthernet0/0
S    10.10.10.2/32 [1/0] via 10.0.0.5
C    10.10.10.3/32 is directly connected, Loopback0
O    10.0.0.0/30 [110/2] via 10.0.0.5, 00:41:16, FastEthernet0/0

O    10.10.10.1/32 [110/3] via 10.0.0.5, 00:41:16, FastEthernet0/0
O    10.10.10.6/32 [110/2] via 10.0.0.29, 00:41:16, FastEthernet1/0
O    10.10.10.4/32 [110/2] via 10.0.0.10, 00:41:16, GigabitEthernet2/0
C    10.0.0.4/30 is directly connected, FastEthernet0/0
O    10.10.10.5/32 [110/12] via 10.0.0.5, 00:41:16, FastEthernet0/0
O    10.0.0.24/30 [110/11] via 10.0.0.5, 00:41:16, FastEthernet0/0
C    10.0.0.28/30 is directly connected, FastEthernet1/0
B    10.0.0.16/30 [200/0] via 10.10.10.5, 00:39:23
O    10.0.0.20/30 [110/2] via 10.0.0.10, 00:41:16, GigabitEthernet2/0
 192.168.1.0/32 is subnetted, 1 subnets

R4#show ip route 172.16.20.1
Routing entry for 172.16.20.1/32
  Known via "ospf 10", distance 110, metric 2, type intra area
  Last update from 10.0.0.21 on FastEthernet1/0, 00:06:51 ago
  Routing Descriptor Blocks:
  * 10.0.0.21, from 172.16.20.1, 00:06:51 ago, via FastEthernet1/0
    Route metric is 2, traffic share count is 1
```

The network operations team reported that the access site that is connected to R3 is not connecting to the application server in the data center and that all packets that are sent from the application server to the access site are dropped. The team verified that OSPF and BGP peerings are up in BGP AS 65101 and BGP AS 65201. R4 is expected to receive traffic from the application server route via OSPF. Which action resolves this issue?

- A. Advertise application server 172.16.20.1 in the OSPF routing table on R6
- B. Add the next-hop-self command on R6 to enable R3 iBGP peering
- C. Allow 172.16.20.1 in the BGP advertisement on R3 in the route-map
- D. Remove the route-map on R4 when advertising 172.16.20.1 in BGP to R3

Correct Answer: C

QUESTION 5

Refer to the exhibit.

```
RP/0/RP0/CPU0:router(config)# router bgp 65534
RP/0/RP0/CPU0:router(config-bgp)# neighbor 192.168.223.7
RP/0/RP0/CPU0:router(config-bgp-nbr)# remote-as 65507
RP/0/RP0/CPU0:router(config-bgp-nbr)#
```

An engineer is securing a customer's network. Which command must the engineer use to complete this configuration to prevent a DoS attack?

- A. neighbor ttl-security
- B. ebgp-multihop
- C. neighbor ebgp-multihop
- D. ttl-security

Correct Answer: D

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