



642-902^{Q&As}

Implementing cisco ip routing

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QUESTION 1

Refer to the exhibit.

```
router eigrp 190
 redistribute eigrp 212
 network 192.0.0.0 0.0.0.3
!
router eigrp 212
 redistribute eigrp 190 route-map default_route
 network 212.50.185.96 0.0.0.31
!
route-map default_route permit 10
 match ip address 100
```



A partial routing configuration is shown. Complete the configuration so that only the default- network is redistributed from EIGRP 190 into EIGRP 212. Which ACL statement completes the configuration correctly?

- A. access-list 100 permit ip 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0
- B. access-list 100 permit ip host 0.0.0.0 any
- C. access-list 100 permit ip any host 0.0.0.0
- D. A default-network cannot be redistributed between routing processes.

Correct Answer: C


The command "access-list 100 permit ip any host 0.0.0.0 means permit any source address with the destination of 0.0.0.0/0, which is the default route Note: any equals 0.0.0.0 255.255.255.255

host 0.0.0.0 equals 0.0.0.0 0.0.0.0

QUESTION 2

Refer to the exhibit.

```
R2# show ip bgp 6.6.6.0
BGP routing table entry for 6.6.6.0/24, version 2
Paths: (2 available, best #2, table Default-IP-Routing-Table)
  Advertised to non peep- group peer:
    10.10.23.3
    30
      10.10.23.3 from 10.10.23.3 (6.6.6.1)
        Origin IGP, metric 0, localpref 125, valid, external
        Community: 100:250
```





Which statement is true about the 6.6.6.0/24 prefix?

- A. Route 6.6.6.0/24 is learned by an IBGP peer.
- B. The command neighbor send-community is configured on BGP neighbor 10.10.23.3.
- C. The route 10.10.23.3 is not being advertised to other BGP neighbors.
- D. If another path advertises the 6.6.6.0/24 path and has the default local preference, that path is more preferred.

Correct Answer: B

By default, the community attributes are not advertised to BGP neighbors. But in the output we see the "Community: 100:250" which means the command "neighbor ... send-community" was used to send community attributes of the local router to the neighbor.

QUESTION 3

An engineer is trying to summarize the following networks using the "ip summary-address eigrp" command:

10.8.88.0/25 10.8.89.48/29 10.8.64.96/27

Which network and subnet mask below would be the smallest EIGRP summary address to include all three subnets?

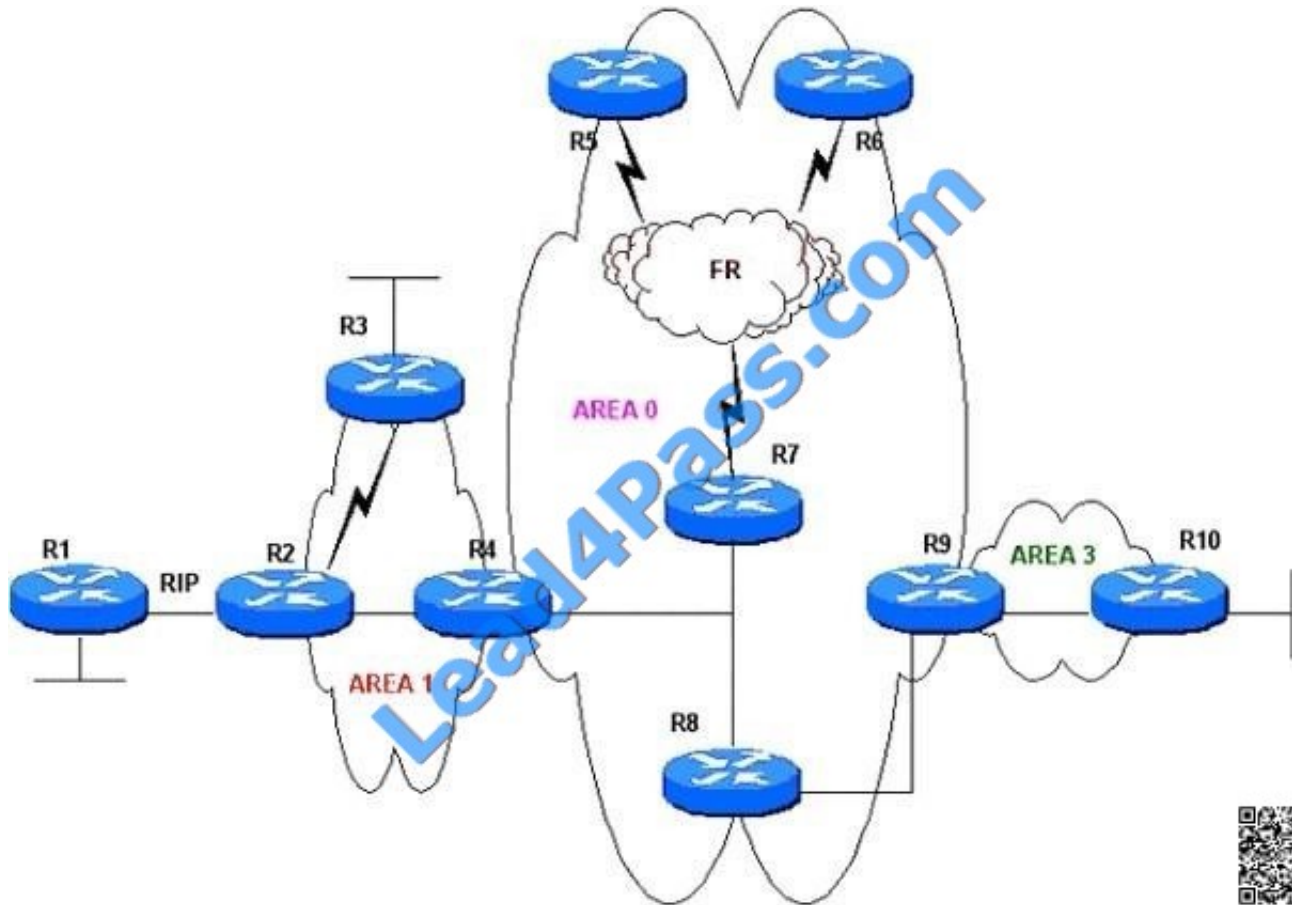
- A. 10.8.64.0 255.255.224.0
- B. 10.8.64.0 255.255.128.0
- C. 10.8.64.0 255.255.192.0
- D. 10.8.0.0 255.255.192.0

Correct Answer: A

10.8.64.0 255.255.224.0 will include networks 10.8.64.0 - 10.8.96.255, so this would be the smallest summary route that would include the 3 routes listed in the question.

QUESTION 4

Refer to the exhibit. OSPF is running throughout the network. You want to minimize the propagation of LSAs into and out of Area 1. Which OSPF feature would best achieve this goal?



- A. stub
- B. totally stubby
- C. NSSA
- D. totally NSSA

Correct Answer: D

We need to redistribute RIP from R1 to Area 1 so Area 3 cannot be a stub or totally stubby area. To minimize the propagation of LSAs into and out of Area 1 we should configure it as a totally NSSA. Notice that a NSSA allows LSA Type 3 and 7

while a Totally NSSA only allows LSA Type 7

Note:

Both Totally Stubby Area and Totally Stubby NSSA do not accept external AS routes or inter- area routes (LSA Types 3, 4 and 5). They recognize only intra-area routes and the default route 0.0.0.0. The main difference between them is Totally

Stubby NSSA accepts routes from other AS while Totally Stubby Area does not.

Below summarizes the LSA Types allowed and not allowed in area types:



Area Type	Type 1 & 2 (within area)	Type 3 (from other areas)	Type 4	Type 5	Type 7
Standard & backbone	Yes	Yes	Yes	Yes	No
Stub	Yes	Yes	No	No	No
Totally stubby	Yes	No	No	No	No
NSSA	Yes	Yes	No	No	Y
Totally (stubby) NSSA	Yes	No	No	No	Y



QUESTION 5

Which statement is true about the command `ipv6 ospf 1 area 0`?

- A. It must be issued in router global configuration mode to enable the OSPF process for IPv6.
- B. It must be issued in interface configuration mode to enable the OSPF process for IPv6.
- C. It must be issued before the network command to enable the OSPF process for IPv6.
- D. It must be issued after the network command to enable the OSPF process for IPv6.

Correct Answer: B

Reference:

[http://www.6deploy.eu/workshops/kenya_20080617/IPv6%20Routing_OSPFv3_MP- BGP.pdf](http://www.6deploy.eu/workshops/kenya_20080617/IPv6%20Routing_OSPFv3_MP-BGP.pdf) (Slide 29)

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