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Alcatel-Lucent Border Gateway Protocol

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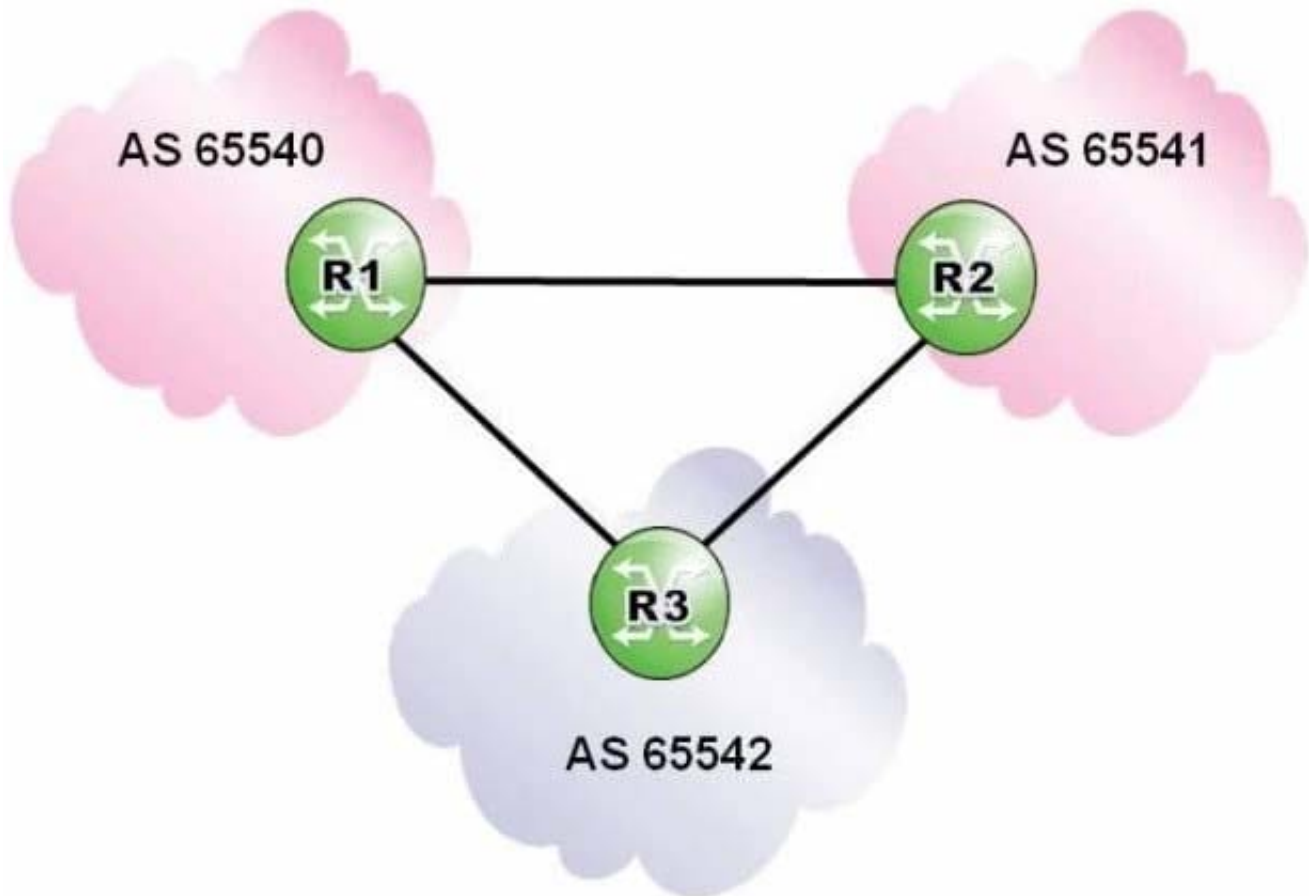
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QUESTION 1

Click the exhibit.

Router R3 is configured with an import policy to reject updates with an AS Path matching the regular expression ".+
65540". Which of the following regarding updates originating in AS 65540 is TRUE?

A. Router R3 rejects all updates originating in AS 65540.

B. Router R3 accepts updates received from router R1 and rejects updates transited through router R2.

C. Router R3 accepts updates transited through router R2 and rejects updates received from router R1.

D. Router R3 accepts updates from both routers R1 and R2.

Correct Answer: B

**QUESTION 2**

Click on the exhibit.
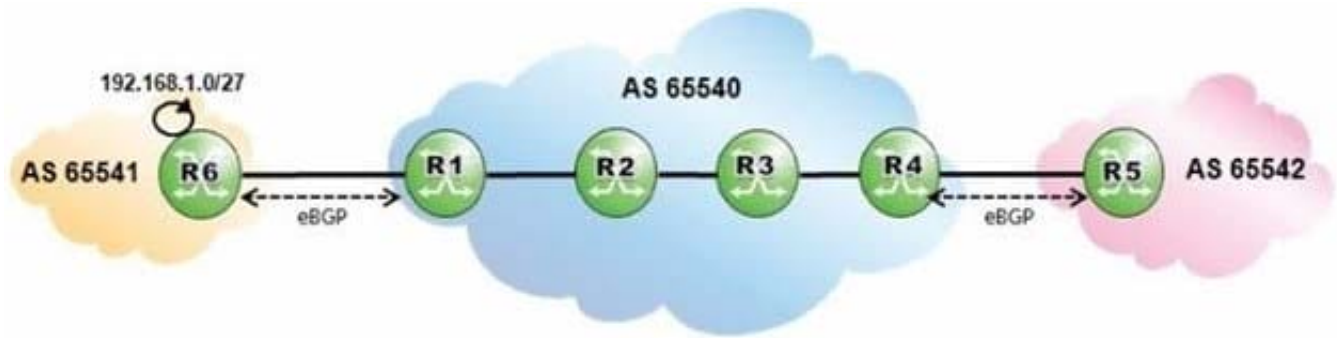
AS 65540 is using MPLS to provide BGP shortcuts for its iBGP routing. AS 65541 is advertising prefix 192.168.1.0/27 into BGP. Which routers have the BGP update for the advertised prefix in their BGP table?

A. Routers R1, R2, R3, R4 and R5.

B. Routers R1and R4 only.

C. Routers R1, R2, R3 and R4 only.

D. Routers R1, R4 and R5 only.

Correct Answer: D

QUESTION 3

Click the exhibit.
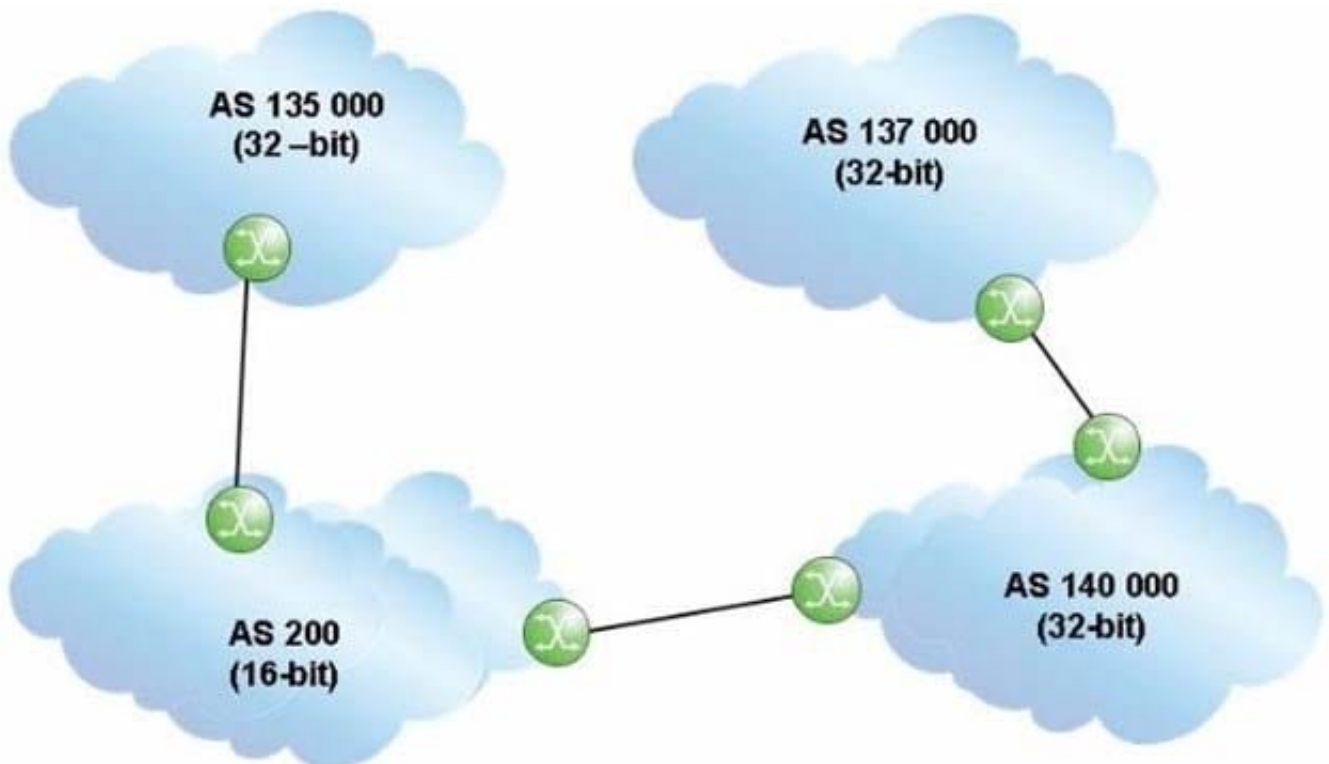
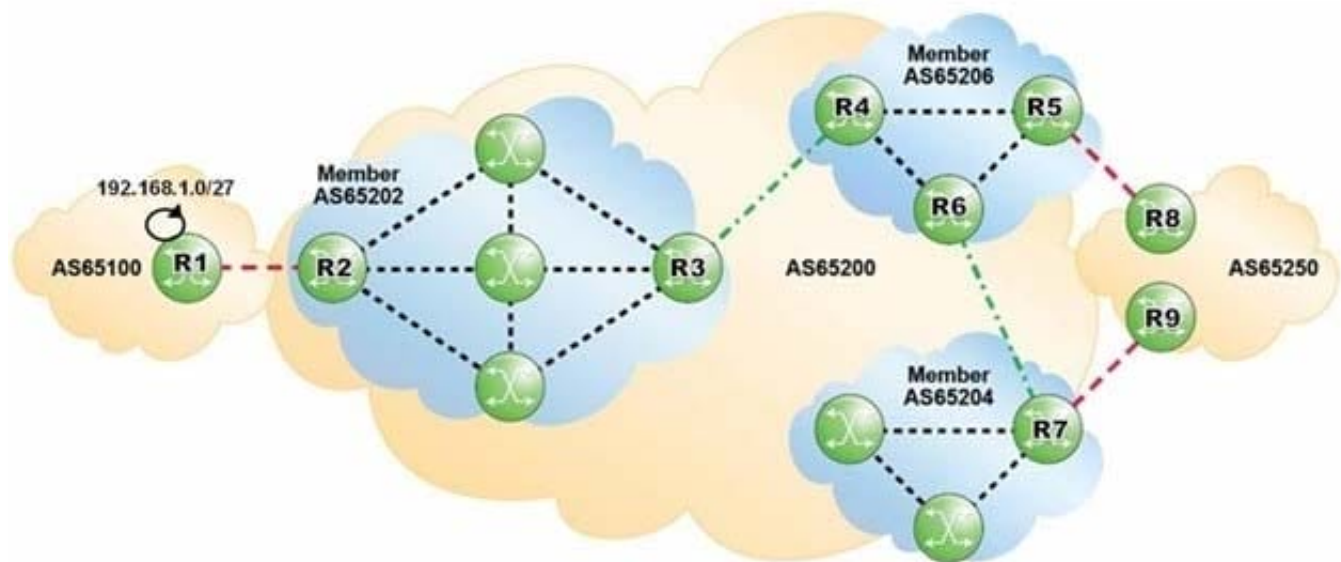An update travels from AS 135000 to AS 137000, traversing both 32-bit and 16-bit AS paths. What will the AS Path be

when the update reaches AS 137000?

A. 140000 200 135000

B. 137000 140000 200 135000

C. 140000 23456 135000 D. 135000 200 140000

Correct Answer: A

QUESTION 4

Click the exhibit.

AS 65100 is advertising 192.168.1.0/27 into BGP. Which of the following AS Paths would the prefix 192.168.1.0/27 contain when viewed on router R7?

A. 65206 65202 65100

B. (65206 65202)65100

C. (65204 65206 65202) 65100

D. (65200) 65100

Correct Answer: B

QUESTION 5

Which of the following regarding BGP confederations is FALSE?

A. A confederation is a collection of Autonomous Systems advertised as a single AS number to BGP speakers outside the confederation.

B. Each member AS must either maintain a full mesh of iBGP sessions, or use route reflection.

C. Confederations can be used to subdivide ASs that have a large number of BGP speakers into smaller domains.

D. A full mesh of intra-confederation eBGP sessions is required between the member ASs.

Correct Answer: D

**QUESTION 6**

Click the exhibit.
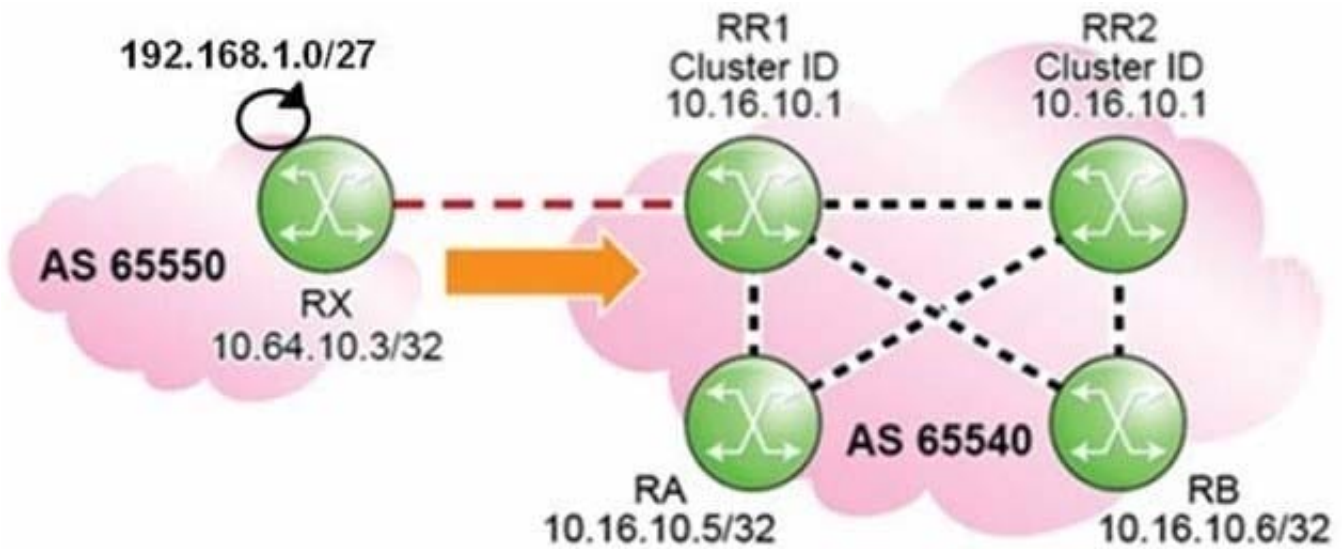
Routers RR1 and RR2 are route reflectors with the same Cluster-ID. When the update for prefix 192.168.1.0/27 is received at router RA2, what are the Originator_ID and Cluster_List attributes?

A. Originator_ID of RR1; and Cluster_List of 10.16.10.1.

B. Originator_ID of RX; and Cluster_List of 10.16.10.1.

C. Originator_ID of RR1; and the Cluster_List is not set.

D. Neither the Originator_ID nor the Cluster_List is set.

Correct Answer: D

QUESTION 7

Click the exhibit.
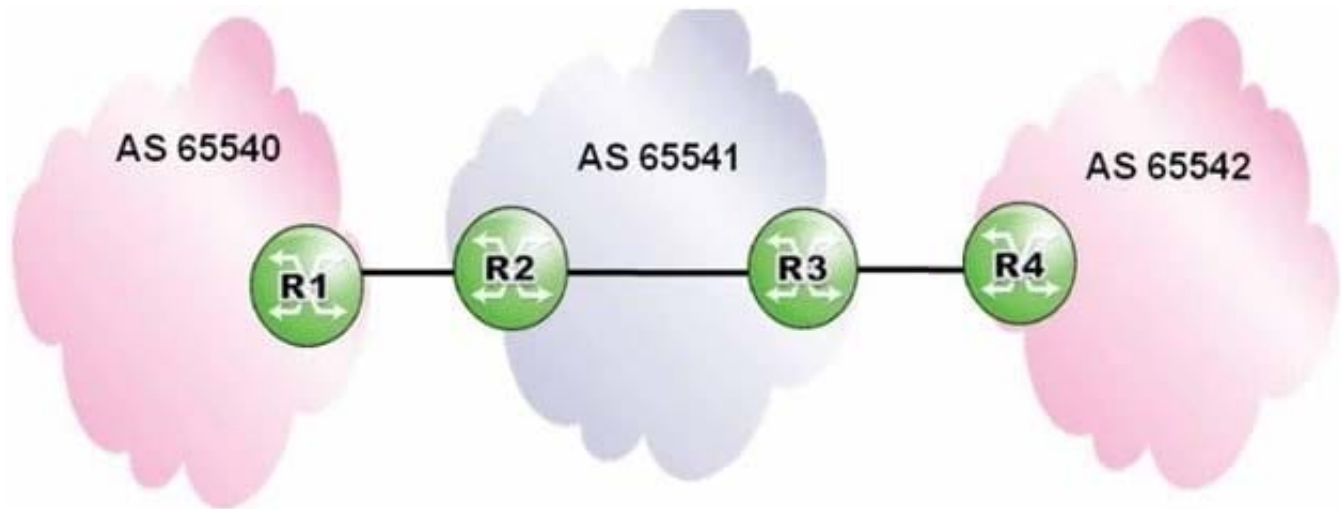
Which of the following can be used by router R4 in AS 65542 to reject all routes originating in AS 65540?

A. An import policy that rejects updates with an AS Path matching the regular expression ".+ 65540 .+".

B. An import policy that rejects updates with an AS Path matching the regular expression ".+ 65540".

C. An import policy that rejects updates with an AS Path matching the regular expression "65540 .+".

D. An import policy that rejects updates with an AS Path matching the regular expression "65540".

Correct Answer: B

QUESTION 8

How is the aggregator attribute handled with 32-bit AS numbers?

A. With the same method and attribute as 16-bit AS numbers.

B. With the same method as 16-bit AS numbers, but using the AS4_Aggregator attribute.

C. Aggregation is not yet supported with 32-bit AS numbers.

D. By using a dummy value of 23456 in the 16-bit AS aggregator field. This value lets the router know it needs to read the 32-bit AS number that is contained in the nextTLV.

Correct Answer: B

QUESTION 9

Which of the following prefix-lists is the most specific match for prefixes 192.168.64.1/20 and 192.168.32.5/19?

A. Prefix 192.168.0.0/17 longer.

B. Prefix 192.168.0.0/19 longer.

C. Prefix 192.168.96.0/19 longer.

D. Prefix 192.168.0.0/18 longer.

Correct Answer: A

QUESTION 10

Upon the successful establishment of a TCP session between peers, what type of BGP message is exchanged?

A. OpenSent

B. Keepalive

C. Open

D. Notification

E. Update

Correct Answer: C

QUESTION 11

Which of the following regarding the atomic aggregate attribute is TRUE?

A. It is an optional transitive attribute.

B. It is an optional non-transitive attribute.

C. The atomic aggregate flag is always set if the aggregator attribute is set.

D. The atomic aggregate flag is always set if the AS Path information is lost due to aggregation.

Correct Answer: D

QUESTION 12

Which of the following regarding BGP Path Identifier is FALSE?

A. Path-ID is a four-octet identifier pre-pended to the NLRI field of a BGP update.

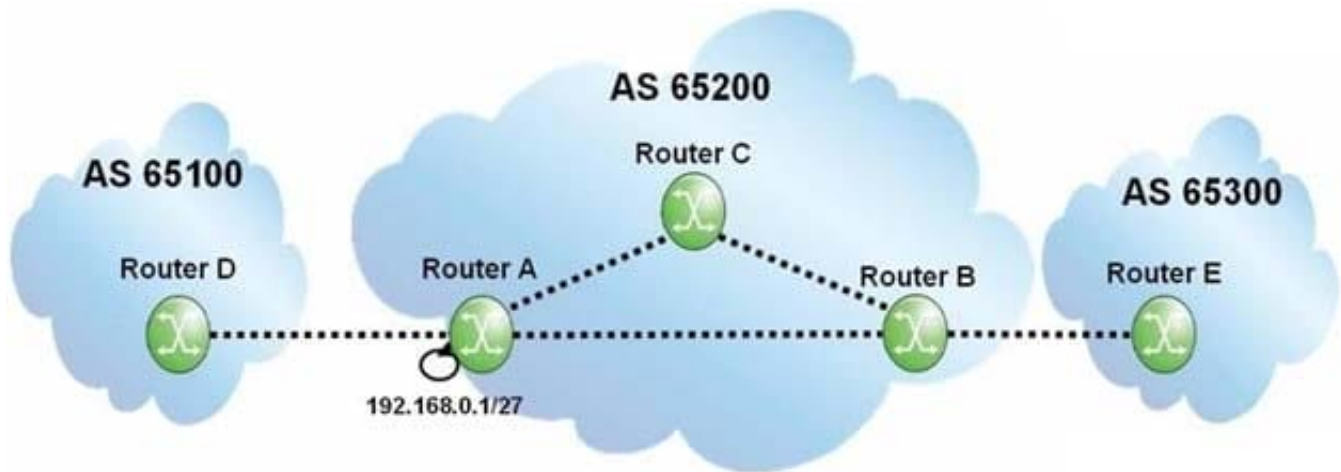B. Path-ID is an optional transitive attribute used to advertise multiple paths.

C. Path-ID uniquely identifies each path advertised to a neighbor.

D. A BGP speaker that re-advertises a route must generate its own Path-ID.

Correct Answer: B

QUESTION 13

Click the exhibit.


If router A originates a BGP route for prefix 192.168.0.1/27, what will the update contain when it reaches router B?

A. AS Path of 65200, Next Hop of router A, Origin of IGP.

B. AS Path of 65200, Next Hop of router A, Origin of incomplete.

C. Null AS Path, Next Hop of router A, Origin of IGP.

D. Null AS Path, Next Hop of router A, Origin of incomplete.

Correct Answer: C

QUESTION 14

Click the exhibit.
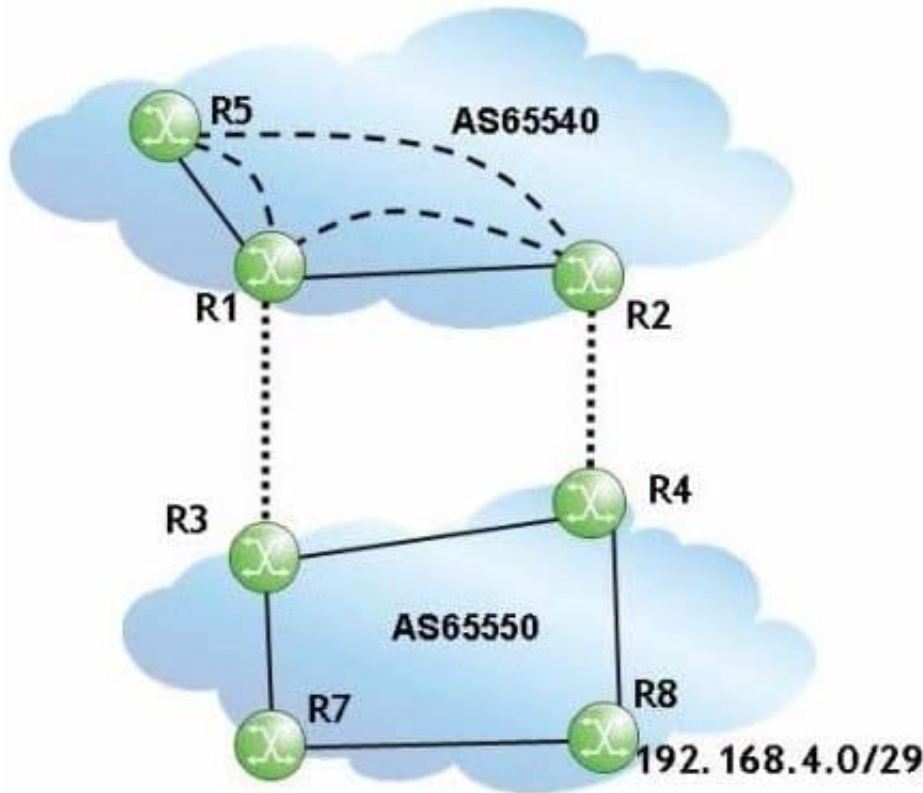
Router R2 receives a route to 192.168.4.0/29 from router R4 and sets the local preference to 110.

Router R1 receives the route to 192.168.4.0/29 from router R3, and sets the local preference to 80. There

is a full iBGP mesh in AS 65540, but router R5 only has a physical connection to router R1.

Which path does traffic destined to 192.168.4.0/29 take from router R5?

A. R5-R2-R4-R8

B. R5-R1-R3-R4-R8

C. R5-R1-R2-R4-R8

D. R5-R1-R3-R7-R8

Correct Answer: C

QUESTION 15

The following policies are configured and exported using "export "Policy-1" "Policy-2"". Assuming both "Client-1" and "Client-2" are properly defined on the router, which routes are advertised?

```
prefix-list "Client-1"
    prefix 192.168.1.0/29 exact
exit
prefix-list "Client-2"
    prefix 192.168.2.0/29 exact
exit
policy-statement "Policy-1"
    entry 10
        from
            prefix-list "Client-1"
        exit
        action accept
        exit
    exit
    default-action accept
exit
policy-statement "Policy-2"
    entry 10
        from
            prefix-list "Client-2"
        exit
        action accept
        exit
    exit
    default-action reject
exit
```

A. Client-1 routes only.

B. Client-2 routes only.

C. Client-1 and Client-2 routes.

D. Neither Client-1 nor Client-2 routes.

Correct Answer: C

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