

NOKIA



Nokia Border Gateway Protocol Fundamentals for Services



EXAMKILLER

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Nokia

Exam 4A0-114

Nokia Border Gateway Protocol Fundamentals for Services

Version: 4.0

[Total Questions: 44]

Question No : 1

Click the exhibit.



Which of the following is a valid confederation configuration for Router R2?

- ☐ A. R2>config>router# info

autonomous-system 65540
confederation 65540 members 65541 65542
- ☐ B. R2>config>router# info

autonomous-system 65542
confederation 65540 members 65541
- ☐ C. R2>config>router# info

autonomous-system 65542
confederation 65540 members 65541 65542
- ☐ D. R2>config>router# info

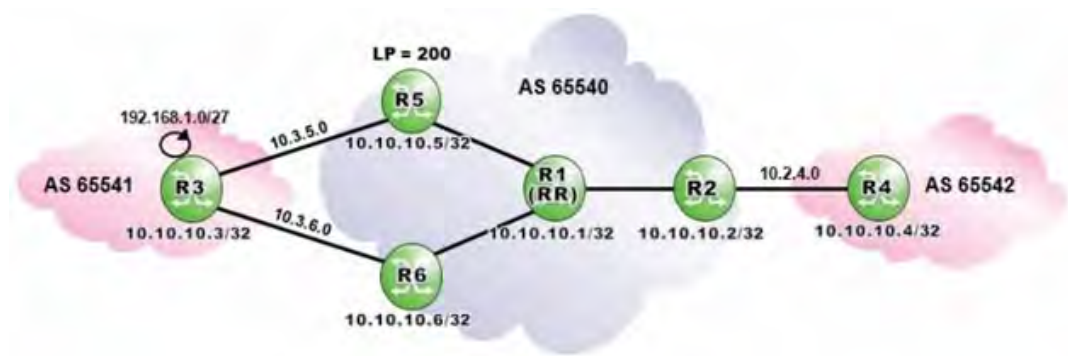
autonomous-system 65540
confederation 65542 members 65541

- A. Option A
- B. Option B
- C. Option C
- D. Option D

Answer: C

Question No : 2

Click the exhibit.



Router R1 is a route reflector with clients R2, R5 and R6. Prefixes advertised by router R5 have a local preference of 200. Router R3 advertises the prefix 192.168.1.0/27 to routers R5 and R6.

Assuming that none of the routers in AS 65540 is configured with "advertise-external", what is the expected output of "show router bgp routes" on router R5?

A. Flag Network		LocalPref	MED
Nexthop	As-Path	Path-Id	VPNLabel

u*	i 192.168.1.0/27	200	None
	10.3.5.3	None	-
	65541		
B. Flag Network		LocalPref	MED
Nexthop	As-Path	Path-Id	VPNLabel

u*	i 192.168.1.0/27	None	None
	10.3.5.3	None	-
	65541		
i	192.168.1.0/27	200	None
	10.10.10.5	None	-
	65541		
i	192.168.1.0/27	100	None
	10.10.10.6	None	-
	65541		
C. Flag Network		LocalPref	MED
Nexthop	As-Path	Path-Id	VPNLabel

u*	i 192.168.1.0/27	None	None
	10.3.5.3	None	-
	65541		
i	192.168.1.0/27	200	None
	10.10.10.5	None	-
	65541		
D. Flag Network		LocalPref	MED
Nexthop	As-Path	Path-Id	VPNLabel

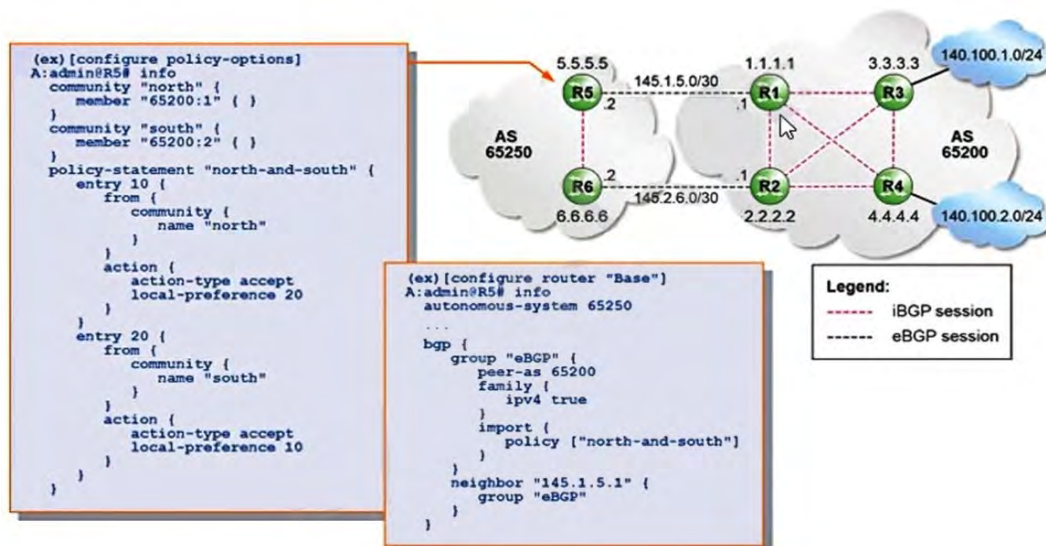
u*	i 192.168.1.0/27	200	None
	10.10.10.5	None	-
	65541		
i	192.168.1.0/27	100	None
	10.10.0.6	None	-
	65541		

- A. Option A
- B. Option B
- C. Option C
- D. Option D

Answer: C

Question No : 3

In the diagram, the BGP import policy "north-and-south" is applied to router R5. Router R1 advertises the prefix 140.100.1.0/24 with a community set to "65200:1". Which of the following statements about how router R5 processes the received route update for prefix 140.100.1.0/24 is TRUE?



- A. The prefix is rejected.
- B. The prefix's local preference is set to 20.
- C. The prefix's community value is removed.
- D. The prefix's community value is modified to 65200:2.

Answer: D

Question No : 4

Which of the following statements about BGP is FALSE?

- A. Peers need to be IP reachable to establish a BGP session.
- B. Route reflectors can reduce the number of iBGP sessions required.

- C. iBGP peers have to be adjacent to each other.
- D. The multihop parameter needs to be configured when eBGP peers are not adjacent to each other.

Answer: C

Question No : 5

A BGP session is stuck in the "Connect" state. Which of the following is the most likely reason?

- A. The remote BGP peer is properly configured but the local router is not.
- B. The local router is properly configured but the remote BGP peer is not.
- C. The BGP protocol is administratively disabled on the local router.
- D. The BGP protocol is administratively disabled on the remote BGP peer.

Answer: B

Question No : 6

Which of the following statements about BGP peering sessions is FALSE?

- A. BGP peers need IP reachability between them.
- B. iBGP peers can be non-adjacent.
- C. eBGP peers have to be adjacent to each other.
- D. BGP peers can be configured with different AS numbers.

Answer: C

Question No : 7

A BGP router receives the following routes. Which route is selected as best route?

- 1: 192.169.20.0/24 with local preference 100, MED 150, AS Path 65300 65200 from an eBGP neighbor
- 2: 192.169.20.0/24 with local preference 100, MED 100, AS Path 63200 from an iBGP neighbor
- 3: 192.169.20.0/24 with local preference 200, MED 150, AS Path 65400 63200 from an

iBGP neighbor

4: 192.169.20.0/24 with local preference 200, MED 100, AS Path 63700 from an eBGP neighbor

- A. Route 1
- B. Route 2
- C. Route 3
- D. Route 4

Answer: B

Question No : 8

Which of the following pieces of information is NOT carried inside an EVPN IP-Prefix (type 5) route update associated with an EVPN VPLS?

- A. The MAC address of an attached host.
- B. The IP prefix of a subnet in the layer-3 domain that the VPLS belongs to.
- C. The VPLS's route-distinguisher and route-target values.
- D. The VPLS's service tunnel ID (MPLS label or VNI value).

Answer: B

Question No : 9

What does an EVPN VPLS do that a traditional VPLS does not do?

- A. It provides a multipoint connectivity service.
- B. It maintains a forwarding database.
- C. It uses control-plane MAC learning.
- D. It acts as a switch, carrying full layer-2 frames between customer sites.

Answer: C

Question No : 10

Which BGP message type is used to verify connectivity during and after BGP session establishment?

- A. Hello
- B. Update
- C. Open
- D. Keep-Alive

Answer: D

Question No : 11

An export policy is applied on a router to advertise a prefix to its eBGP peers. By default, which of the following updates are made to the route attributes?

- A. LOCAL_PREFERENCE is set to 100.
- B. NEXT_HOP is set to the neighbor router's interface IP address.
- C. The local AS number is added to AS_PATH.
- D. COMMUNITY is set to the local AS number.

Answer: C

Question No : 12

Which of the following statements about IPv6 Link-Local addresses is FALSE?

- A. They are assigned to every physical interface running IPv6.
- B. They are only valid for communication within the same broadcast domain.
- C. They all have the same 64-bit subnet prefix.
- D. They have an interface ID derived by default from the interface's IPv4 address.

Answer: D

Question No : 13

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.

Answer: B

Question No : 14

Which of the following statements about BGP is FALSE?

- A. BGP uses Hello messages to dynamically discover BGP peers.
- B. To establish a BGP session, a TCP session must first be established between the two routers.
- C. BGP uses the OPEN message to exchange capability parameters between routers.
- D. BGP was originally designed as an exterior routing protocol.

Answer: D

Question No : 15

Which of the following statements about route reflector clusters is FALSE?

- A. Multiple clusters may be configured within an AS.
- B. Within an AS, route reflectors belonging to different clusters do not need to be fully-meshed among themselves.
- C. A router can be the client of multiple route reflectors within its AS.
- D. When a route reflector reflects a route, it adds its cluster ID to the Cluster_list attribute.

Answer: D

Question No : 16

Given the network shown, which of the following is the correct BGP configuration for RR1?