



642-902^{Q&As}

Implementing cisco ip routing

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QUESTION 1

Which of the below mentioned conditions form a neighbor relation in EIGRP? (Choose Three)

- A. Hello or ACK received
- B. AS number match
- C. Hello timer match
- D. Identical metric(k values)
- E. Dead Timer Match
- F. Network Time Match

Correct Answer: ABD

EIGRP routers create a neighbor relationship by exchanging hello packets. Certain fields in the hello packets must match before an EIGRP neighbor relationship is established:

EIGRP autonomous system (AS) number EIGRP K values

QUESTION 2



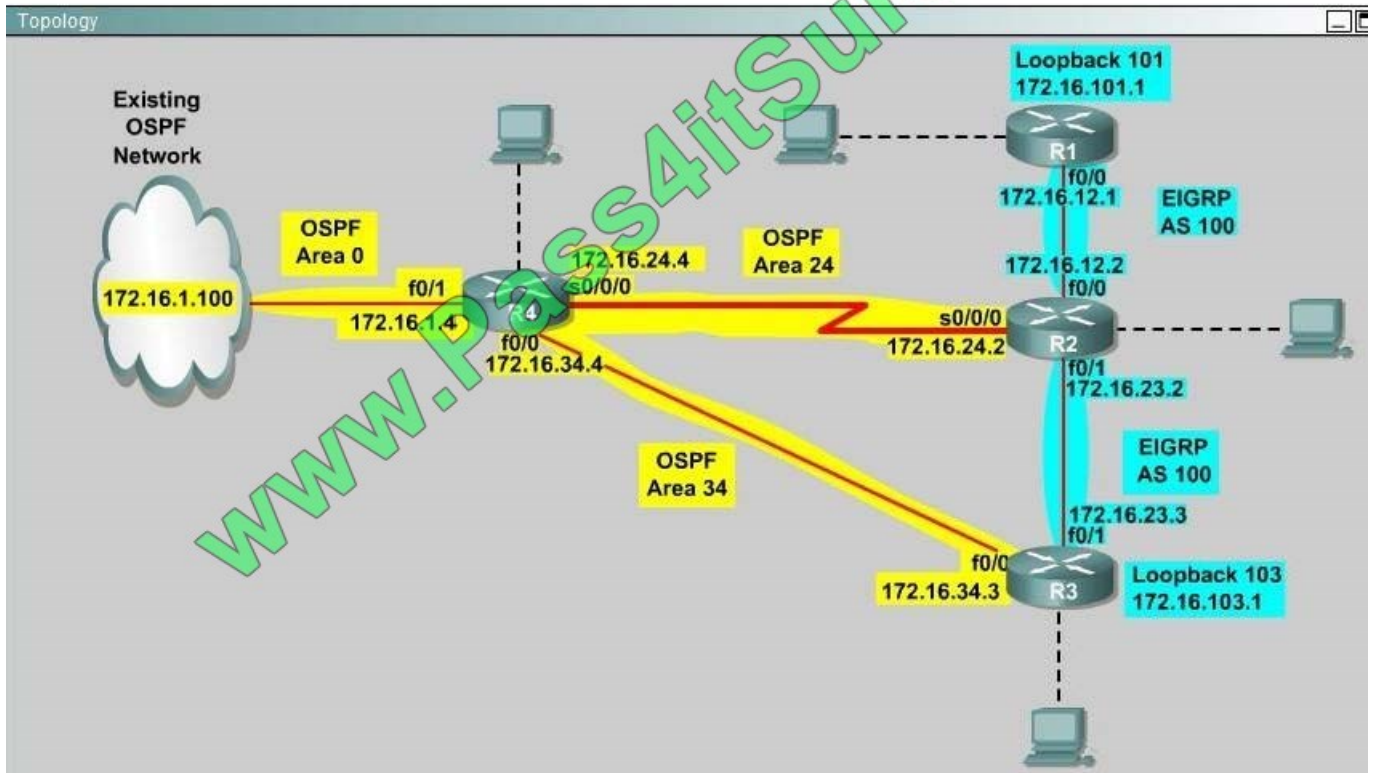
Scenario

You are a network engineer with ROUTE.com, a small IT company. They have recently merged two organizations and now need to merge their networks as shown in the topology exhibit. One network is using OSPF as its IGP and the other is using EIGRP as its IGP. R4 has been added to the existing OSPF network to provide the interconnect between the OSPF and EIGRP networks. Two links have been added that will provide redundancy.

The network requirements state that you must be able to ping and telnet from loopback 101 on R1 to the OSPF domain test address of 172.16.1.100. All traffic must use the shortest path that provides the greatest bandwidth. The redundant paths from the OSPF network to the EIGRP network must be available in case of a link failure. No static or default routing is allowed in either network.

A previous network engineer has started the merger implementation and has successfully assigned and verified all IP addressing and basic IGP routing. You have been tasked with completing the implementation and ensuring that the network requirements are met. You may not remove or change any of the configuration commands currently on any of the routers. You may add new commands or change default values.

Topology

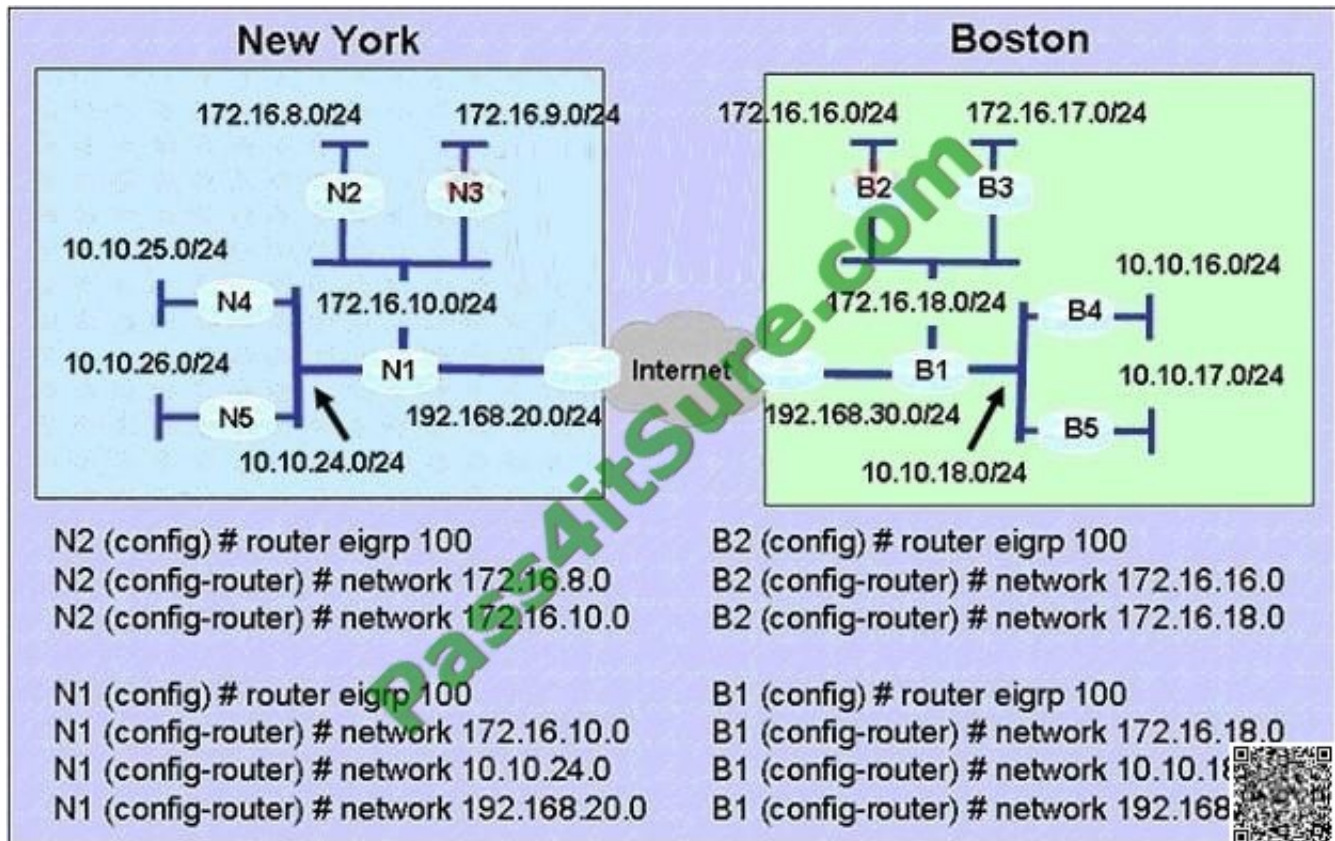


Correct Answer: On router R2 and R3: Config t Router ospf 1 Redistribute eigrp 100 metric 100 subnets distance eigrp 90 105 Router eigrp 100 Redistribute ospf 1 metric 100000 10 200 10 1500 Then from R1 you should be able to ping

172.16.1.100 Since R2 router has the potential to be the shortest path to OSPF network from loopback 101. So configure the router R2 to have redistributable eigrp.

QUESTION 3

Refer to the exhibit.



A Boston company bought the assets of a New York company and is trying to route traffic between the two data networks using EIGRP. The show command output shows that traffic will not flow between the networks. As a network consultant, you were asked to modify the configuration and certify the interoperability of the two networks. For traffic to flow from subnet 172.16.8.0/24 to the 172.16.16.0/24 subnet.

Which configuration change do you recommend?

- A. Turn off autosummarization on routers N1 and B1.
- B. Add IP summary addresses to the Internet-pointing interfaces of routers N1 and B1.
- C. Turn off auto summarization on routers N2 and B2.
- D. Add wildcard masks to the network commands on routers N2 and B2.

Correct Answer: A

Basically auto route summarization happens at the classful network boundary...so that would make N1 and B1 the locations that summarization would occur for the 172.16.0.0/16 classful networks.

So if you left auto-summarization enabled on those 2 routers, you would have an issue with discontinuous networks being advertised by both routers N1 and B1 with their classful mask (172.16.0.0/16 and 10.0.0.0/8), which will cause you issues.

Turning off auto-summarization on N2 and B2 wouldn't make any difference, as their networks wouldn't be summarized due to the fact that they are not meeting a classful boundary on their perspective routers. N1 will receive the 172.16.8.0/24 network from N2 with auto-summarization enabled.



QUESTION 4

Which one of the following statements about BGP is FALSE?

- A. BGP uses TCP port 179.
- B. BGP ensures reliability of updates by using the reliable transport services of TCP.
- C. The network command with the mask option never installs a prefix into the BGP table unless there is a matching prefix exists in the IP route table.
- D. A TCP connection is required before exchanging updates.
- E. BGP uses notification and the update messages to establish and maintain the BGP neighbor relationship.

Correct Answer: E

An underlying connection between two BGP speakers is established before any routing information is exchanged. This connection takes place on TCP port 179. Unlike other routing protocols, the router must be manually configured with the neighbor information on both sides of the connection (which is FALSE in this question)

QUESTION 5

Refer to the exhibit.

R1#show ipv6 neighbor

IPv6 Address	Age	Link-layer Addr	State	Interface
FE80::21E:79FF:FEAB:3141	2	001e.79ab.3141	STALE	Gi0/1

Which statement about this neighbor of R1 is true?

- A. OSPFv3 adjacency has been lost, which causes the neighbor to be considered Stale.
- B. Aggregate global addresses are always used between IPv6 neighbors.
- C. OSPFv3 adjacency will not work between link-local addresses.
- D. R1 used ICMP to learn about this neighbor.

Correct Answer: D

ICMP is a ping echo. IPv6 uses ICMP to learn about its neighbor.



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