



642-902^{Q&As}

Implementing cisco ip routing

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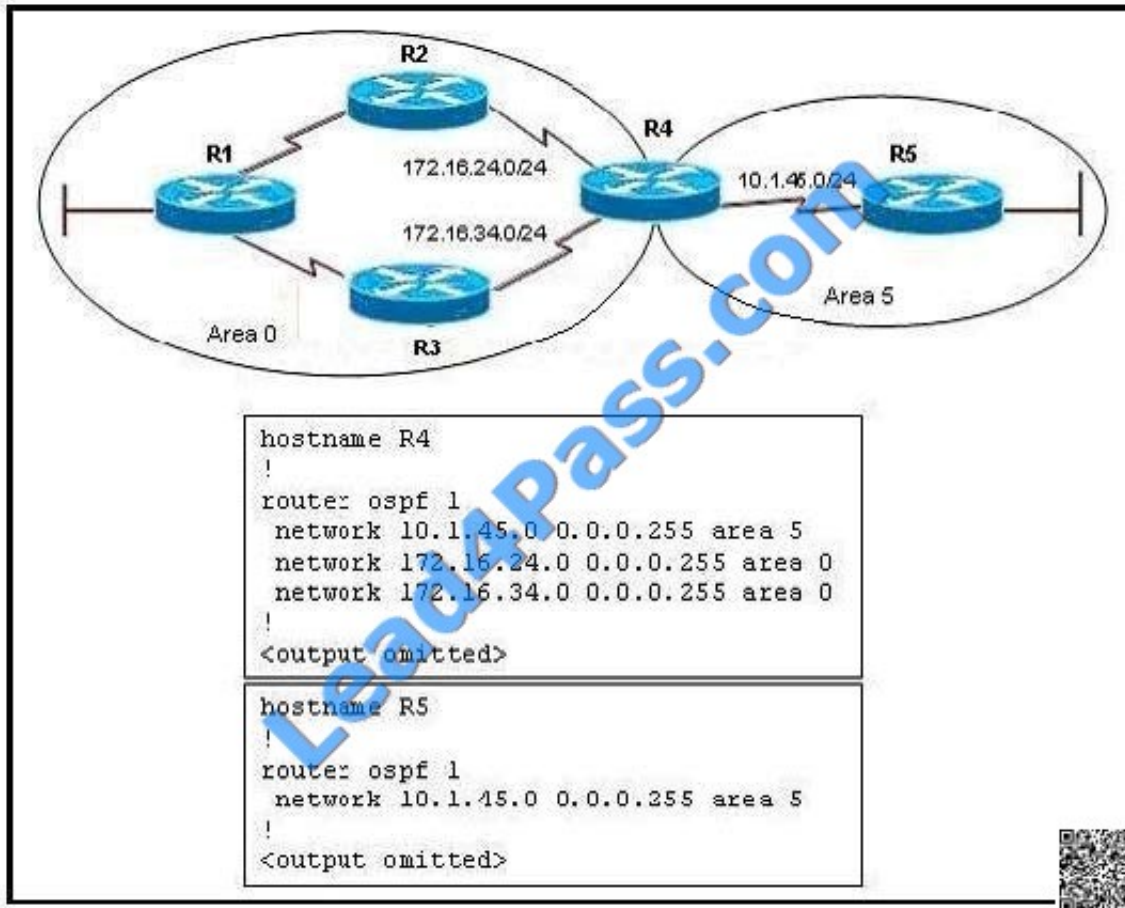
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QUESTION 1

Refer to the exhibit.



What additional commands should be used to configure OSPF area 5 as a Totally Stubby area?

- A. area 0 stub on routers R4 and R5
- B. area 5 stub on routers R4 and R5
- C. area 5 stub no-summary on routers R4 and R5
- D. area 0 stub no-summary on router R4 and area 5 stub no-summary on router R5
- E. area 5 stub no-summary on router R4 and area 5 stub on router R5

Correct Answer: E

To define a totally stub area, use the `area area-id stub no-summary` command on the ABR (in OSPF router configuration) and the `area area-id stub` on the totally stub router. The ABR will inject a default route into the area so routers in this type of area only see routing information local to their area, plus a default route pointing to the ABR, from which they can reach all other areas and all other networks



QUESTION 2

Click and drag the BGP attributes characterization on the left to the correct BGP attribute on the right.

Select and Place:

Click and drag the BGP attribute characterization on the left to the correct BGP attribute on the right.

is propagated throughout the local autonomous system	MED Attribute
is not advertised to neighboring routers	
used for one router with multiple exit points out of the autonomous system	Local Preference Attribute
is propagated between autonomous systems	
	Weight Attribute

Correct Answer:

Click and drag the BGP attribute characterization on the left to the correct BGP attribute on the right.

	MED Attribute
	is propagated between autonomous systems
	Local Preference Attribute
	is propagated throughout the local autonomous system
	Weight Attribute
	is not advertised to neighboring routers
	used for one router with multiple exit points out of the autonomous system

QUESTION 3

Refer to the exhibit.



```
R1#show route-map divert
route-map divert, permit, sequence 1
Match clauses:
  ip address (access-lists): 101
set clauses:
  ip next-hop 212.50.185.126
  ip next-hop recursive 192.0.0.1
  ip default next-hop 212.50.185.125
Policy routing matches: 0 packets, 0 by
```

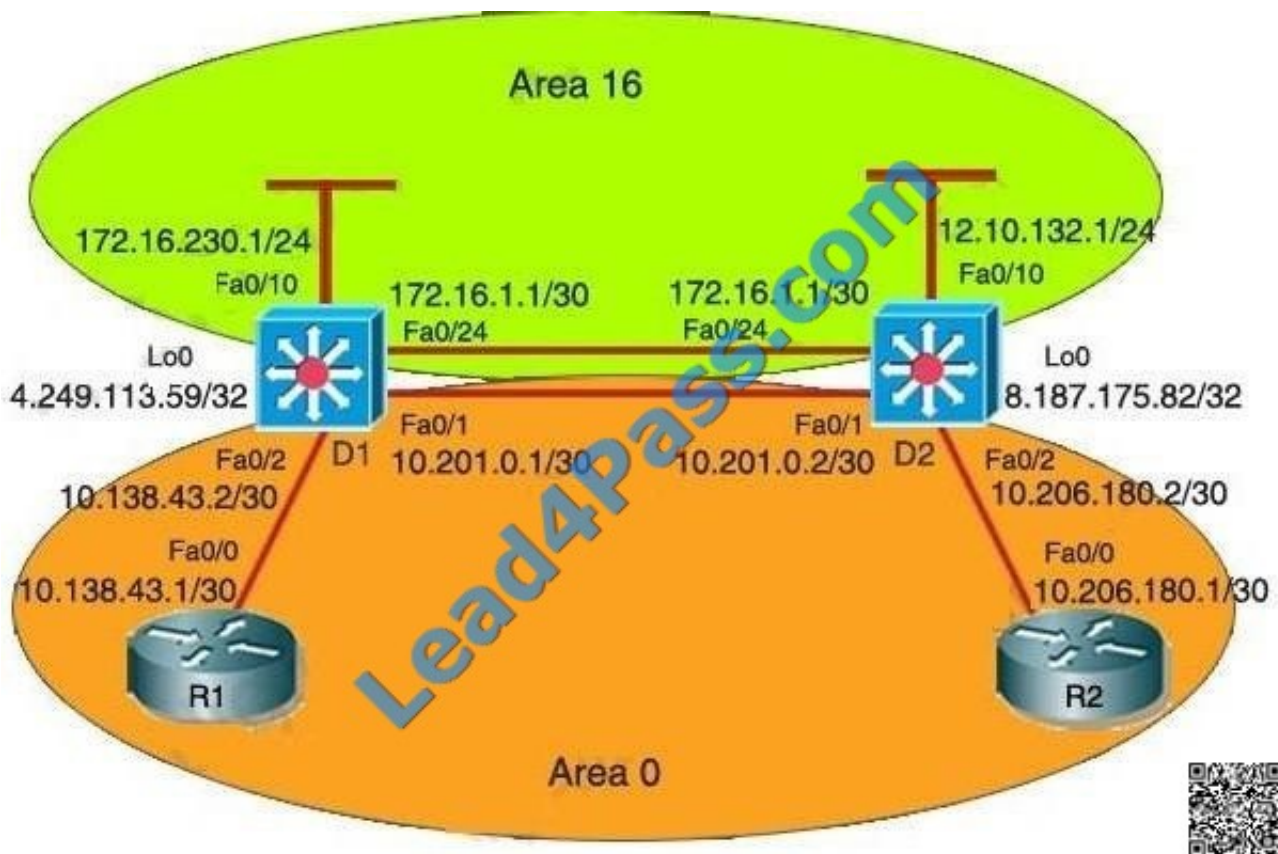
Based upon the configuration, you need to understand why the policy routing match counts are not increasing. Which would be the first logical step to take?

- A. Confirm if there are other problematic route-map statements that precede divert.
- B. Check the access list for log hits.
- C. Check the routing table for 212.50.185.126.
- D. Remove any two of the set clauses. (Multiple set clause entries will cause PBR to use the routing table.)

Correct Answer: B

First we should check the access-list log, if the hit count does not increase then no packets are matched the access-list -> the policy based routing match counts will not increase.

QUESTION 4





The R2 router has lost connectivity to R1. The following is R1s current route table:

The company and the company network have both been growing rapidly. Multiple adds, moves and changes have been applied to the network. Your boss has asked you to troubleshoot a recent OSPF synchronization problem that has arisen. There have been synchronization problems at separate locations in the OSPF area 0. There have been reported link failures during the rapid growth of the company network. You are required to resolve the OSPF problem. OSPF must be able to converge when the network changes. Refer to the information above to answer the following question.

```
172.16.0.0/16 is variably subnetted, 3 subnets, 2 masks
O IA 172.16.230.0/24 [110/21] via 10.138.43.1, 00:00:03, FastEthernet0/0
O IA 172.16.209.0/24 [110/22] via 10.138.43.1, 00:00:03, FastEthernet0/0
O IA 172.16.1.0/30 [110/21] via 10.138.43.1, 00:00:03, FastEthernet0/0
10.0.0.0/30 is subnetted, 1 subnets
C 10.138.43.0 is directly connected, FastEthernet0/0
```



Which expected route is missing from R1s route table based on the topology during the maintenance period?\\

- A. o 172.16.0.0 [110/2] via 10.138.43.1, 00:00:09, FastEthernet0/0
- B. o IA 9.152.105.122 [110/3] via 10.138.43.1, 00:00:09, FastEthernet0/0
- C. o IA 10.138.0.0 [110/3] via 10.138.43.1, 00:00:09, FastEthernet0/0
- D. o IA 10.249.0.0 [110/2] via 10.138.43.1, 00:00:09, FastEthernet0/0
- E. o IA 4.249.113.59 [110/2] via 10.138.43.1, 00:00:09, FastEthernet0/0
- F. o 8.187.175.82 [110/3] via 10.138.43.1, 00:00:09, FastEthernet0/0

Correct Answer: F

0 8.287.175.82 [110/3] is not to be seen in the R1 current route table which means it has lost connectivity via 10.138.43.1. Also 10.0.0.0/30 has only 1 subnet.

QUESTION 5

What is the difference between the IPv6 addresses ::/0 and ::/128?

- A. ::/0 is the default route, and ::/128 is the unspecified address.
- B. ::/0 is the unicast address, and ::/128 is the anycast address.
- C. ::/0 is the anycast address, and ::/128 is the multicast address.
- D. ::/0 is the unicast address, and ::/128 is the multicast address.
- E. ::/0 is the unspecified address, and ::/128 is the multicast address.
- F. ::/0 is the anycast address, and ::/128 is the default address.

Correct Answer: A



Reference: <http://tools.ietf.org/html/rfc5156>

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