



642-902^{Q&As}

Implementing cisco ip routing

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QUESTION 1

Refer to the exhibit.

A new TAC engineer came to you for advice. A GRE over IPsec tunnel was configured, but the tunnel is not coming up.

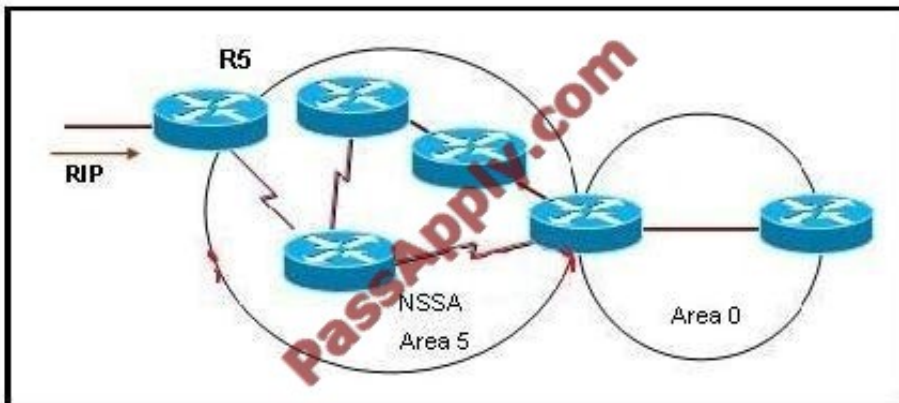
What did the TAC engineer configure incorrectly?

- A. The crypto isakmp configuration is not correct.
- B. The crypto map configuration is not correct.
- C. The interface tunnel configuration is not correct.
- D. The network configuration is not correct; network 172.16.1.0 is missing.

Correct Answer: A

QUESTION 2

Refer to the exhibit.



OSPF is configured on all routers in the network. Area 5 is configured as an NSSA area. The RIPv2 routes are redistributed into the OSPF domain on router R5. What two types of LSAs will be originated by router R5? (Choose two.)

- A. type 1 Router LSA
- B. type 2 Network LSA
- C. type 3 Network Summary LSA
- D. type 4 ASBR Summary LSA
- E. type 5 AS External LSA
- F. type 7 NSSA External LSA

Correct Answer: AF



The point of the question is the LSA types in different kinds of areas.

NSSA area has 4 kinds of LSA : 1, 2 , 3 ,7

There is no LSA3 because it is produced by ABR to advertise routing entries between OSPF areas. There is no LSA2 because there are serial interface but no fast Ethernet interface, no DR elected, no LSA2. LSA2 is produced by DR.

QUESTION 3

What two situations could require the use of multiple routing protocols? (Choose two)

- A. when using UNIX host-based routers
- B. when smaller broadcast domains are desired
- C. because having multiple routing protocols confuses hackers
- D. when migrating from an older Interior Gateway Protocol (IGP) to a new IGP
- E. when all equipment is manufactured by Cisco
- F. when there are multiple paths to destination networks

Correct Answer: AD

Simple routing protocols work well for simple networks, but networks grow and become more complex. While running a single routing protocol throughout your entire IP internetwork is desirable, multiprotocol routing is common for a number of reasons, including company mergers, multiple departments managed by multiple network administrators, multivendor environments, or simply because the original routing protocol is no longer the best choice. Often, the multiple protocols are redistributed into each other during a migration period from one protocol to the other.

QUESTION 4

What is the IPv6 address FF02::2 used for?

- A. all hosts in a local segment
- B. all routers in a local segment
- C. all hosts in a particular multicast group
- D. all routers in an autonomous system

Correct Answer: B

To identify all nodes for the node-local and link-local scopes, the following multicast addresses are defined:

FF01::1 (node-local scope all-nodes address)

FF02::1 (link-local scope all-nodes address)

To identify all routers for the node-local, link-local, and site-local scopes, the following multicast addresses are defined:



FF01::2 (node-local scope all-routers address)

FF02::2 (link-local scope all-routers address)

FF05::2 (site-local scope all-routers address)

Reference: <http://technet2.microsoft.com/windowsserver/en/library/8c07faf2-35b3-4f2a-920f-d61ad76581ad1033.msp?mfr=true>

QUESTION 5

Based on the exhibited output,

```
R1# show ip eigrp topology

IP-EIGRP Topology Table for process 200

Codes: P - Passive, A - Active, U - Update, Q - Query, R - Reply,
       r - Reply status

P 192.168.1.64/28 1 successors, FD is 281600
   via Connected, Ethernet
P 192.168.1.48/28, 1 successors, FD is 40512000
   via Connected, Serial0
P 192.168.1.48/28, 1 successors, FD is 40537600
   via 192.168.1.66 (40537600/40512000), Ethernet0
   via 192.168.1.1 (41024000/40512000), Serial0
   via 192.168.1.33 (41024000/40512000), Serial1
P 192.168.1.16/28 1 successors, FD is 40512000
   via Connected, Serial0
```

Which three statements are true? (Choose three.)

- A. R1 is in AS 200.
- B. R1 will load balance between three paths to reach the 192.168.1.48/28 prefix because all three paths have the same advertised distance (AD) of 40512000.
- C. The best path for R1 to reach the 192.168.1.48/28 prefix is via 192.168.1.66.
- D. 40512000 is the advertised distance (AD) via 192.168.1.66 to reach the 192.168.1.48/28 prefix.
- E. All the routes are in the passive mode because these routes are in the hold-down state.
- F. All the routes are in the passive mode because R1 is in the query process for those routes.

Correct Answer: ACD

It can be determined that AS 200 is used, from the fact that the IS-IS process ID is labeled as 200. The best path to reach the network 192.168.1.48/28 is the first one displayed in the routing table. This can be further demonstrated by the fact that the metric is less than the alternative route, via serial 0. Finally, the AD can be found by viewing the second number within the parentheses, which in this case is 40512000.



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