



642-902^{Q&As}

Implementing cisco ip routing

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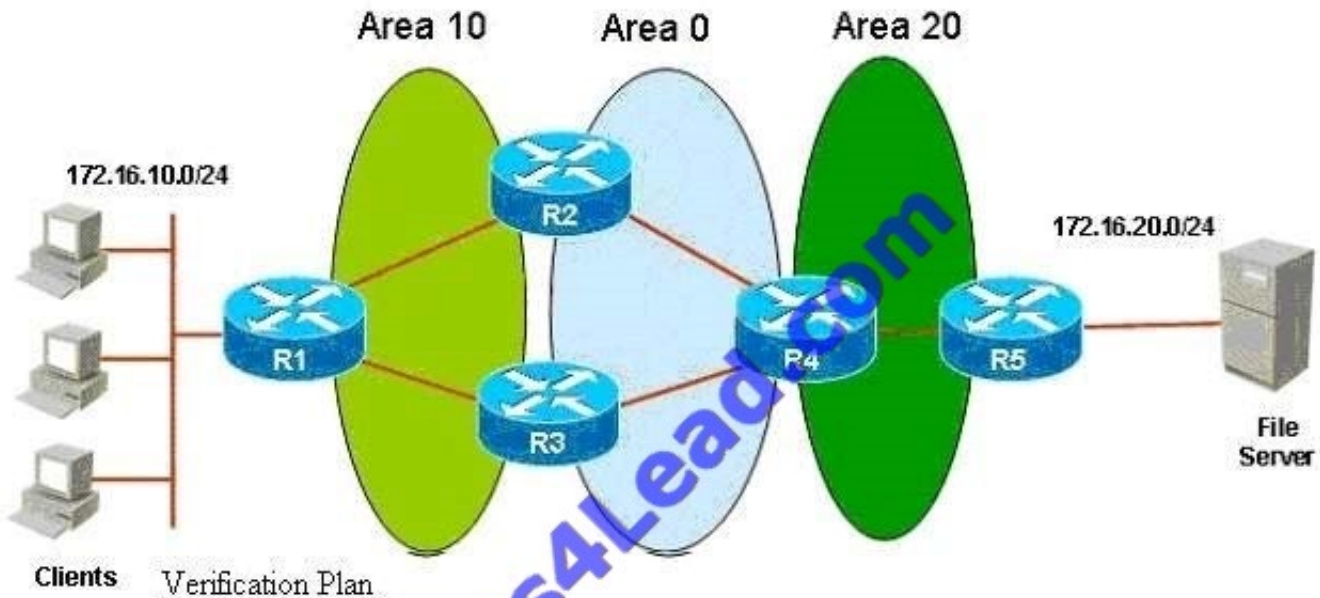
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QUESTION 1

Refer to the exhibit. ROUTE.com is planning to implement a secure OSPF network to support traffic between clients on the 172.16.10.0/24 network and the file server on the 172.16.20.0/24 network. You have been asked to review the implementation and verification plans for this OSPF project. Which statement about the plan is true?



1. On R1 and R5, verify end-to-end connectivity between prefixes 172.16.10.0 and 172.16.20.0 using the extended ping command.
2. Verify that all routers have established a full neighbor relationship with the appropriate neighbors.
3. Verify the proper authentication method is active for each neighbor relationship.
4. Verify that each prefix is assigned to the appropriate OSPF area.
5. Verify the appropriate routes and summaries are in the routing table of each router.
6. Verify end-to-end connectivity between the clients and the file server.

- A. It is complete as written.
- B. It should include a task that verifies that the interarea routes are using the proper MED.
- C. It should include a task that verifies that load sharing is active on R1 and R4.
- D. It should include a task that verifies that all redundant links will become active when the primary links are shut down.

Correct Answer: D

Reference: http://www.cisco.com/en/US/docs/routers/access/as5350/software/feature/guide/pull_rlm.htm

QUESTION 2

One of the most important characteristics of OSPF is multiple areas. Which statement best describes why this feature is



such an important enhancement to earlier routing protocols?

- A. The network domain, when divided into areas, allows for the use of both IANA classful addressing and private addressing.
- B. The use of multiple areas allows for the use of prioritization.
- C. All computation is kept within the area, with minimum communication between the areas, allowing the network to scale to larger sizes.
- D. It is easier to implement security.

Correct Answer: C

Reference: <http://www.ciscopress.com/articles/article.asp?p=31577> (OSPF within an area)

QUESTION 3

What administrative distance is given to EIGRP summary routes?

- A. 0
- B. 1
- C. 5
- D. 90
- E. 95
- F. 170

Correct Answer: C

Reference:

http://www.cisco.com/en/US/docs/ios/iproute_eigrp/command/reference/ire_i1.html (See usage guidelines)

QUESTION 4

Refer to the exhibit. Based on the output from the show command on RT1 which statement is true?



```
RT1# show ipv6 ospf interface
FastEthernet0/0 is up, line protocol is up
Link Local Address FE80::218:B9FF:FE12:2CD1, Interface ID 4
Area 0, Process ID 1, Instance ID 0, Router ID 10.1.1.1
Network Type BROADCAST, Cost: 1
Transmit Delay is 1 sec, State Drother, Priority 1
Designated Router (ID) 10.1.3.1, local address FE80::218:B9FF:FECD:BEF0
Backup Designated router (ID) 10.1.2.1, local address FE80::218:B9FF:FE92:28D8
Timer intervals configured, Hello 10, Dead 40, Wait 40, Retransmit 5
  Hello due in 00:00:04
Index 1/3/3, flood queue length 0
Next 0x0 (0) /0x0 (0) /0x3 (0)
Last flood scan length is 2, maximum is 2
Last flood scan time is 0 msec, maximum is 0 msec
Neighbor Count is 2, Adjacent neighbor count is 2
  Adjacent with neighbor 10.1.3.1 (Designated Router)
  Adjacent with neighbor 10.1.2.1 (Backup Designated Router)
Suppress hello for 0 neighbor(s)
```

- A. OSPFv3 uses global IPv6 addresses to establish neighbor adjacencies.
- B. RT1 has a subnet mask of 64 bits.
- C. RT1 has FastEthernet0/0 set as a DR for network type broadcast.
- D. OSPFv3 uses Link-local addresses to establish neighbor adjacencies.
- E. RT1 does not have a global IPv6 address set on FastEthernet0/0.
- F. OSPFv3 uses IPv4 addresses to establish neighbor adjacencies.

Correct Answer: D

OSPFv3 is an updated version of OSPF designed to accommodate IPv6 natively. OSPFv3 uses the multicast address FF02::5 and FF02::6, but like EIGRP it uses its link-local address as the source address in advertisements.

QUESTION 5

Which statement is true about EBGp?

- A. An internal routing protocol can be used to reach an EBGp neighbor.
- B. The next hop does not change when BGP updates are exchanged between EBGp neighbors.
- C. A static route can be used to form an adjacency between neighbors.
- D. EBGp requires a full mesh.

Correct Answer: C

When BGP is running between routers in different autonomous systems, it is called External BGP (EBGP). When BGP is running between routers in the same AS, it is called Internal BGP (IBGP). BGP allows the path that packets take to be manipulated by the AS, as described in this module. It is important to understand how BGP works to avoid creating problems for your AS as a result of running BGP.



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