



642-902^{Q&As}

Implementing cisco ip routing

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QUESTION 1

Company plans on migrating their network from IPv4 to IPv6 in the near future. Which three techniques can be used to transition from IPv4 to IPv6? (Select three)

- A. Dual stack
- B. NAT
- C. Flow label
- D. Mobile IP
- E. 6to4 tunneling
- F. Anycast
- G. MBGP

Correct Answer: ABE

Reference: <http://www.inethk.asia/docs/christian-ipv6-isp-perspective-ISOC.pdf> (slide 9)

QUESTION 2

Which attribute must exist in the BGP update packet?

- A. LOCAL_PREF
- B. AGGREGATOR
- C. AS_Path
- D. Weight

Correct Answer: C

Origin, AS_Path, Next_Hop are well-known mandatory BGP attributes that all BGP Updates must include.

Note: There are 4 BGP attribute types:

+ Well-known Mandatory: recognized by all implementations of BGP and must appear in a BGP update message. If missing, a notification error will be generated. + Well-Known Discretionary: recognized by all implementations of BGP but may not be sent in the BGP update message (include LOCAL_PREF, ATOMIC_AGGREGATOR). + Optional Transitive: may or may not be recognized by all BGP implementations. Because the attribute is transitive, BGP accepts and advertises the attribute even if it is not recognized (include Community attribute). + Optional Nontransitive: may or may not be recognized by all BGP implementations. Whether or not the receiving BGP router recognizes the attribute, it is nontransitive and is not passed along to other BGP peers (include MED).

QUESTION 3



Refer to the exhibit. Why are the EIGRP neighbors for this router not learning the routes redistributed from OSPF?

```
router eigrp 123
 redistribute ospf 123
 network 116.16.35.0 0.0.0.255
 network 130.130.0.0
 auto-summary
 !
router ospf 123
 log-adjacency-changes
 network 116.16.34.0 0.0.0.255 area 0
 neighbor 116.16.34.4
```

- A. Redistribution must be enabled mutually (in both directions) to work correctly.
- B. Auto-summary causes the OSPF routes redistributed into EIGRP to be summarized; thus the OSPF network 116.16.34 is summarized to 116.34.0.0, which is already covered by the EIGRP protocol.
- C. Default metrics are not configured under EIGRP.
- D. Both routing protocols must have unique autonomous system numbers for redistribution to function correctly.

Correct Answer: C

Same as RIP, when redistribute into EIGRP from OSPF, the default metric is infinite -> We must set a seed metric when redistributing into EIGRP. Below lists the default seed metrics when redistributing from a routing protocol into another:

Redistributed Protocol	Default Seed Metric
RIP	Infinity
IGRP/EIGRP	Infinity
OSPF	20 for all (except for BGP, which is 1)
BGP	is set to IGP metric value

QUESTION 4

Which three statements are true regarding EIGRP? (Choose three.)

- A. By default, EIGRP performs auto-summarization across classful network boundaries.
- B. EIGRP uses an area hierarchy to increase network scalability.
- C. To speed convergence, EIGRP attempts to maintain a successor and feasible successor path for each destination.
- D. EIGRP uses hellos to establish neighbor relationships.
- E. By default, EIGRP uses the Dijkstra algorithm to determine the best path to a destination network based on bandwidth and delay.



Correct Answer: ACD

Reference:

<http://ptgmedia.pearsoncmg.com/images/1587131706/samplechapter/1587131706content.pdf> (See page 66 which is the 2nd page of this pdf)

QUESTION 5

R3#show run | include defaultip default-network 140.140.0.0 ip default-network 130.130.0.0 R3#show ip route | begin Gateway

Gateway of last resort is 0.0.0.0 to network 130.130.0.0 116.0.0.0/8 is variably subnetted, 5 subnets, 3 masks C 116.16.37.0/30 is directly connected, Serial1/0.2 C 116.16.32.0/30 is directly connected, Serial2/0.2 C 116.16.34.0/28 is directly connected, Serial1/0.1 C 116.16.35.0/28 is directly connected, Serial2/0.1 S 116.0.0.0/8 [1/0] via 116.16.34.0

*

140.140.0.0/32 is subnetted, 3 subnets O 140.140.1.1 [110/65] via 116.16.34.4, 00:14:54, Serial1/0.1 O 140.140.3.1 [110/65] via 116.16.34.4, 00:14:54, Serial1/0.1 O 140.140.2.1 [110/65] via 116.16.34.4, 00:14:54, Serial1/0.1

*

130.130.0.0/16 is variably subnetted, 4 subnets, 2 masks D* 130.130.0.0/16 is a summary, 00:30:04, Null0 C 130.130.1.0/24 is directly connected, Ethernet0/0 C 130.130.2.0/24 is directly connected, Ethernet0/1 C 130.130.3.0/24 is directly connected, Ethernet1/0 D 150.150.0.0/16 [90/679936] via 116.16.35.5, 00:02:58, Serial2/0.1

Refer to the exhibit. Why is the 140.140.0.0 network not used as the gateway of last resort even though it is configured first?

- A. The last default-network statement will always be preferred.
- B. A route to the 140.140.0.0 network does not exist in the routing table.
- C. Default-network selection will always prefer the statement with the lowest IP address.
- D. A router will load balance across multiple default-networks; repeatedly issuing the show ip route command would show the gateway of last resort changing between the two networks.

Correct Answer: B

As you can see in the exhibit, 140.140.0.0 doesn't appear in the routing table.

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