



642-902^{Q&As}

Implementing cisco ip routing

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QUESTION 1

What number is a valid representation for the 200F:0000:AB00:0000:0000:0000/56 IPv6 prefix?

- A. 200F:0:0:AB/56
- B. 200F:0:AB00::/56
- C. 200F::AB00/56
- D. 200F:AB/56

Correct Answer: B

The 0s are truncated.

QUESTION 2

Which two conditions can cause BGP neighbor establishment to fail? (Choose two.)

- A. There is an access list blocking all TCP traffic between the two BGP neighbors.
- B. The IBGP neighbor is not directly connected.
- C. BGP synchronization is enabled in a transit autonomous system with fully-meshed IBGP neighbors.
- D. The BGP update interval is different between the two BGP neighbors.
- E. The BGP neighbor is referencing an incorrect autonomous system number in its neighbor statement.

Correct Answer: AE

BGP uses TCP port 179 to establish and maintain neighbor relationships, so any access lists or firewalls must permit this port for BGP to function. By default, EBGP multi-hop is not enabled, so the EBGP peer must be directly connected in order for the local BGP router to know how to reach the EBGP peer. BGP uses neighbor statements that specify the AS number of the BGP peer. If it is the same number as the local BGP router process, then the BGP router knows that IBGP is used. If the AS number for the specified peer is different, then EBGP is used. Either way, the specified neighbor must be configured correctly, or the BGP peers will not become neighbors.

QUESTION 3

BGP contains two paths to a destination. Assuming both routes were originated locally and have an equal weight. What will be the next determining factor in choosing the best path?

- A. lowest MED
- B. highest local preference
- C. lowest neighbor IP address
- D. lowest origin code
- E. shortest AS-path



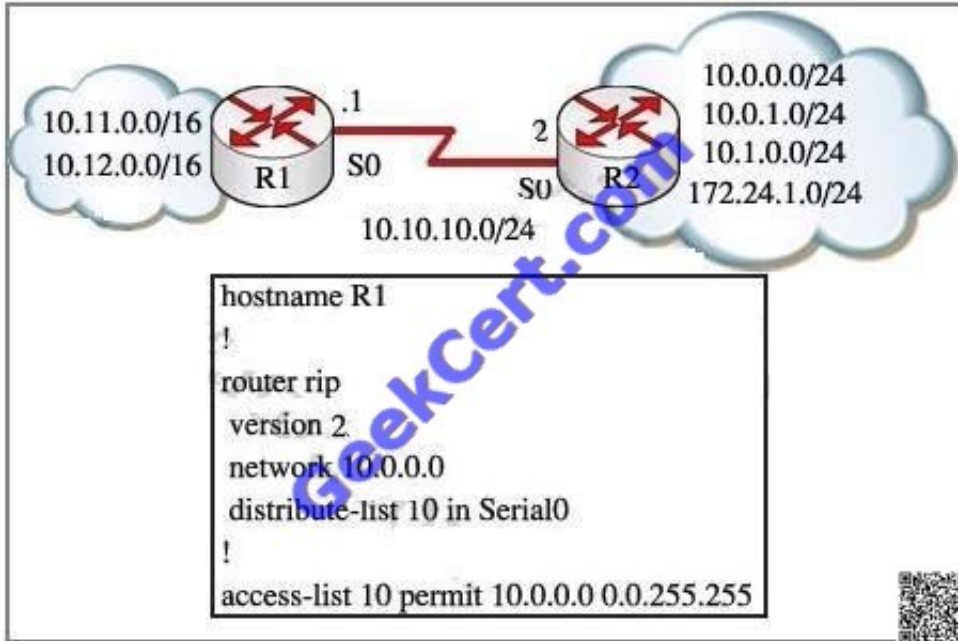
Correct Answer: B

Memorizing the BGP decision process steps is very useful and you should remember them. The table below lists the complete path selection process:

1.
Weight (Bigger is better)
 2.
Local preference (Bigger is better)
 3.
Self originated (Locally injected is better than iBGP/eBGP learned)
 4.
AS-Path (Smaller is better)
 5.
Origin (Prefer ORIGIN code I over E, and E over ?)
 6.
MED (Smaller is better)
 7.
External (Prefer eBGP over iBGP)
 8.
IGP cost (Smaller is better)
 9.
EBGP Peering (Older is better)
 10.
RID (Lower is better)
-

QUESTION 4

Study this exhibit below carefully.



What is the effect of the distribute-list command in the R1 configuration?

- A. R1 will permit only the 10.0.0.0/24 route in the R2 RIP updates
- B. R1 will not filter any routes because there is no exact prefix match
- C. R1 will filter the 10.1.0.0/24 and the 172.24.1.0/24 routes from the R2 RIP updates
- D. R1 will filter only the 172.24.1.0/24 route from the R2 RIP updates

Correct Answer: C

The command "distribute-list 10 in Serial0 will create an incoming distribute list for interface serial 0 and refers to access list 10. So it will permit routing updates from 10.0.x.x network while other entries (in this case the 10.1.0.0/24 and 172.24.1.0/24 networks) will be filtered out from the routing update received on interface S0.

QUESTION 5

What are three reasons to control routing updates via route filtering? (Choose three).

- A. to hide certain networks from the rest of the organization
- B. for easier implementation
- C. to control network overhead on the wire
- D. for simple security
- E. to prevent adjacencies from forming

Correct Answer: ACD

Route filtering hide certain networks from the rest of the organization and it also controls network overhead. Not only



this, it also provides security to the routing updates.

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