



# 300-101<sup>Q&As</sup>

Implementing Cisco IP Routing

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### QUESTION 1

A network engineer is enabling RIPng on a new customer link Under which configuration mode is RIPng enabled?

- A. Global
- B. Router
- C. Interface
- D. IPv6

Correct Answer: C

### QUESTION 2

Which two methods of deployment can you use when implementing NAT64? (Choose two.)

- A. stateless
- B. stateful
- C. manual
- D. automatic
- E. static
- F. functional
- G. dynamic

Correct Answer: AB

While stateful and stateless NAT64 perform the task of translating IPv4 packets into IPv6 packets and vice versa, there are important differences. The following table provides a high-level overview of the most relevant differences. Table 2. Differences Between Stateless NAT64 and Stateful NAT64 Reference:

[http://www.cisco.com/c/en/us/products/collateral/ios-nx-os-software/enterprise-ipv6-solution/white\\_paper\\_c11-676277.html](http://www.cisco.com/c/en/us/products/collateral/ios-nx-os-software/enterprise-ipv6-solution/white_paper_c11-676277.html)

Stateless NAT64	Stateful NAT64
1:1 translation	1:N translation
No conservation of IPv4 address	Conserves IPv4 address
Assures end-to-end address transparency and scalability	Uses address overloading, hence lacks in end-to-end address transparency
No state or bindings created on the translation	State or bindings are created on every unique translation
Requires IPv4-translatable IPv6 addresses assignment (mandatory requirement)	No requirement on the nature of IPv6 address assignment
Requires either manual or DHCPv6 based address assignment for IPv6 hosts	Free to choose any mode of IPv6 address assignment viz. Manual, DHCPv6, SLAAC



### QUESTION 3

Which two commands would be used to troubleshoot high memory usage for a process?(Choose two.)

- A. router#show memory allocating-process table
- B. router#show memory summary
- C. router#show memory dead
- D. router#show memory events
- E. router#show memory processor statistics

Correct Answer: AB

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### QUESTION 4

Which two statements about GRE tunnel keys are true? (Choose two)

- A. They key ID must be the same on each device.
- B. They prevent the injection of unwanted frames.
- C. They prevent the injection of unwanted packets.
- D. They must be stored to a keychain.
- E. They provide the high level of security that is available.

Correct Answer: AC

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### QUESTION 5

Which are two methods for migrating routing protocols?(Choose Two)

- A. Changing AD Distance
- B. Redistribution
- C. ACL
- D. <https://www.CertBus.com/300-101.html>

Correct Answer: AB

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