

## Questions

1. What statement is true of the global routing table in an VRF configuration (by default)?
  - A. The global routing table is a combination of the routes found in the routing tables of each VRF instance.
  - B. The global routing table does not contain routes seen in the routing table of any VRF instance.
  - C. A VRF configuration disables the global routing table, and instead uses the routing table of each VRF instance.
  - D. By default, routes appearing in a router's global routing table are "leaked" into the routing table of each VRF instance. However, routes in a VRF instance's routing table are not leaked into the global routing table.
  
2. An IKE Phase 1 tunnel is also known as what?
  - A. An IPsec tunnel
  - B. A GRE tunnel
  - C. An ISAKMP tunnel
  - D. An SA tunnel
  
3. When setting up encryption in an IPsec tunnel configuration, which of the following is NOT an available option?
  - A. sha
  - B. des
  - C. aes
  - D. 3des

## Questions and Answers

1. What statement is true of the global routing table in an VRF configuration (by default)?
  - A. The global routing table is a combination of the routes found in the routing tables of each VRF instance.
  - B. The global routing table does not contain routes seen in the routing table of any VRF instance.
  - C. A VRF configuration disables the global routing table, and instead uses the routing table of each VRF instance.
  - D. By default, routes appearing in a router's global routing table are "leaked" into the routing table of each VRF instance. However, routes in a VRF instance's routing table are not leaked into the global routing table.

**Answer: B**

Explanation: Even though "leaking" can be configured to allow a router's global routing table and a VRF instance's routing table to exchange routes, by default, the global routing table doesn't see routes from nor exchange routes with a VRF instance's routing table.

### Video Reference: 2.2.1 Virtual Routing and Forwarding (VRF)

2. An IKE Phase 1 tunnel is also known as what?
  - A. An IPsec tunnel
  - B. A GRE tunnel
  - C. An ISAKMP tunnel
  - D. An SA tunnel

**Answer: C**

Explanation: When an IPsec tunnel is being formed, it goes through two phases. The first phase is the creation of an IKE Phase 1 tunnel. IKE stands for Internet Key Exchange. The second phase is the creation of an IKE Phase 2 tunnel. Another name for the IKE Phase 1 tunnel is an "ISAKMP tunnel," where ISAKMP stands for Internet Security Association and Key Management Protocol. Another name for the IKE Phase 2 tunnel is an IPsec tunnel. Each of these tunnels has a corresponding security association, referred to as an SA. However, an SA is not a type of tunnel.

### Video Reference: 2.2.3 The Need to Combine GRE and IPsec Tunneling

3. When setting up encryption in an IPsec tunnel configuration, which of the following is NOT an available option?
  - A. sha
  - B. des
  - C. aes

D. 3des

**Answer: A**

Explanation: When setting up an IPsec tunnel, common configuration options for encryption are DES, 3DES, and AES, with AES typically being the most preferred option and DES being the least preferred option. However, Secure Hash Algorithm (SHA) is used for authentication rather than encryption.

**Video Reference: 2.2.4 Configuring GRE over IPsec Tunnels**