200-301^{Q&As}

Implementing and Administering Cisco Solutions (CCNA) (Include Newest Simulation Labs)

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QUESTION 1

A network engineer is implementing a corporate SSID for WPA3-Personal security with a PSK. Which encryption cipher must be configured?

A. CCMP128

B. GCMP256

C. CCMP256

D. GCMP128

Correct Answer: A

WPA2 uses CCMP-128 security level with AES-128 cipher suite plus CBC-MAC cipher (personal or enterprise mode).

WPA3 also uses CCMP-128 security level with AES-128 cipher suite plus CBC-MAC cipher (personal or enterprise mode);

(or) GCMP-128 security level with AES-128 cipher suite plus GMAC cipher (enterprise mode);

(or) GCMP-192 security level (called Suite B) with AES-256 cipher suite plus GMAC cipher (enterprise mode).

In the case the question asked for the AES cipher (not the security level which is also 128 bits), CCMP-128 in this case refers to the 128 bit AES cipher.

According to RFC 5430, this confusion between cipher and elliptic curve security level is common, which represents the set of encryption ciphers plus the integrity cipher (AES Encryption + MIC CBC-MAC / or MIC GMAC).

QUESTION 2

Refer to the exhibit. A company is configuring a failover plan and must implement the default routes in such a way that a floating static route will assume traffic forwarding when the primary link goes down. Which primary route configuration must be used?
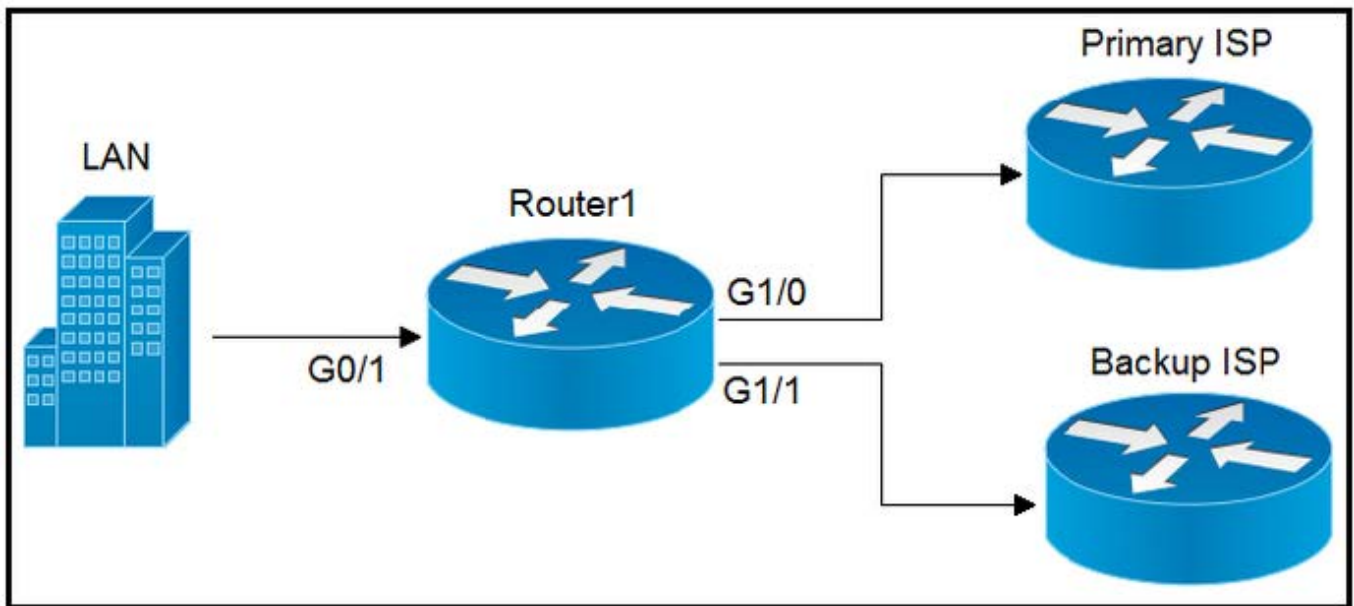
A. ip route 0.0.0.0 0.0.0.0 192.168.0.2 GigabitEthernetl/0

B. ip route 0.0.0.0 0.0.0.0 192.168.0.2 tracked

C. ip route 0.0.0.0 0.0.0.0 192.168.0.2 floating

D. ip route 0.0.0.0 0.0.0.0 192.168.0.2

Correct Answer: D

Unlike IPv6, in IPv4 static routing configuration, for the next hop you either enter an IP Address of the neighboring interface or your local interface, BUT NEVER BOTH. Example:

R1(config)# ip route 192.168.20.0 255.255.255.0 10.12.0.2 Or R1(config)# ip route 192.168.20.0 255.255.255.0 g0/0

QUESTION 3

How does Chef configuration management enforce a required device configuration?

A. The Chef Infra Server uses its configured cookbook to push the required configuration to the remote device requesting updates.

B. The installed agent on the device connects to the Chef Infra Server and pulls its required configuration from the cookbook.

C. The Chef Infra Server uses its configured cookbook to alert each remote device when it is time for the device to pull a new configuration.

D. The installed agent on the device queries the Chef Infra Server and the server responds by pushing the configuration from the cookbook.

Correct Answer: B

Chef configuration management enforces a required device configuration by using an installed agent on the device that

connects to the Chef Infra Server and pulls the required configuration from the cookbook.

In Chef, a cookbook is a collection of recipes, attributes, templates, and other configuration files that define a desired configuration for a specific device or group of devices. The Chef Infra Server stores the cookbook, and the installed agent on each device periodically checks in with the server to see if there are any updates to the cookbook.

If an update is available, the agent pulls the updated cookbook from the server and applies the new configuration to the device. This process is known as "pull-based" configuration management, where the devices actively request updates from the server.

QUESTION 4

What is a reason to implement LAG on a Cisco WLC?

A. Allow for stateful failover between WLCs.

B. Increase security by encrypting management frames.

C. Increase the available throughput on the link.

D. Enable the connected switch ports to use different Layer 2 configurations.

Correct Answer: C

The reason to implement LAG (Link Aggregation Group) on a Cisco WLC (Wireless LAN Controller) would be C. Increase the available throughput on the link.

LAG combines multiple physical links into a single logical link, increasing the available bandwidth and improving network performance. By using LAG, multiple links can be used simultaneously to transmit and receive data, which allows the WLC to provide higher throughput than a single link could provide. This is especially important in high-density WLAN environments where there are many wireless clients connecting to the network and generating a large amount of traffic.

QUESTION 5

Which interface mode must be configured to connect the lightweight APs in a centralized architecture?

A. WLAN dynamic

B. management

C. trunk

D. access

Correct Answer: D