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## Cisco Designing Cisco Enterprise Wireless Networks Sample Questions (Q277-Q282):

NEW QUESTION # 277

Which of the following statements best describes the purpose of ARP with respect to CEF?

- A. ARP is used to build the FIB.
- B. ARP is used to reindex the routing table.
- **C. ARP is used to build the adjacency table.**
- D. ARP is used to decrease the amount of time spent searching for an entry within a routing table.

**Answer: C**

Explanation:

Address Resolution Protocol (ARP) is used by Cisco Express Forwarding (CEF) to build the adjacency table.

CEF is the switching method used by Catalyst switches. Unlike traditional multilayer switching (MLS), which merely caches Layer 3 information received when traffic passes through a switch, CEF attempts to optimize the routing process by reindexing the routing table and then building an adjacency table based on the routing table information. The type of MLS performed by CEF is called topology-based switching; traditional MLS is known as route caching, demand-based switching, and flow-based switching.

The routing table is reindexed by using a binary search method. The reindexed routing table is called the forwarding information base (FIB). Reindexing the routing table reduces the amount of time spent searching for an entry within a routing table.

After the FIB is created, an adjacency table is created to map the appropriate Layer 2 next-hop address or addresses to each FIB entry. ARP is used to retrieve the Layer 2 address information. If multiple Layer 2 next-hop addresses are available for an entry in the FIB, then CEF can employ load balancing for packets headed to that destination.

The final result is a single database of routing information (FIB) is built for the switching hardware.

Two extremely useful commands for verifying CEF are:

show ip cef network address - displays entries in the forwarding information base (FIB) show adjacency detail | begin adjacency address - shows information about a specific adjacency in the adjacency table Both commands are shown below with explanations.

SwitchA# show ip cef 192.168.6.0

192.168.6.0/24, version 302, cached adjacency 192.168.166.5, 0 packets, 0 bytes Via 192.168.166.5, VLAN 185, 0 dependencies Next-hop 192.168.166.5, VLAN 185 Valid cached adjacency Above it can be determined that there is a valid CEF entry for the destination network 192.168.6.0 and that there is a valid cached adjacency to the 192.168.166.5 next hop IP address. In the command output below, it can be determined that 005565946856 is the MAC address of the 192.168.166.5 next-hop address:

SwitchA# show adjacency detail | begin 192.168.166.5

IP VLAN 185 192.168.166.5(6) 0 packets, 0 bytes

005565946856

Objective:

Layer 2 Technologies

Sub-Objective:

Configure and verify switch administration

References:

Cisco > Cisco IOS IP Switching Configuration Guide, Release 12.4 > Part 1: Cisco Express Forwarding > Cisco Express Forwarding Overview > Cisco Express Forwarding Adjacency Tables Overview Cisco > Cisco IOS IP Switching Command Reference > show adjacency through show ipv6 cef with source > show adjacency Cisco > Cisco IOS IP Switching Command Reference > show adjacency through show ipv6 cef with source > show ip cef

## NEW QUESTION # 278

An engineer is designing a wireless deployment for a university auditorium. Which two features can be used to help deal with the issues introduced by high AP count? (Choose two.)

- **A. DFS**
- **B. TPC**
- C. LSS
- D. TSPEC
- E. RXSOP

**Answer: A,B**

Explanation:

Section: Wired and Wireless Infrastructure

## NEW QUESTION # 279

Which statement about AP failover priority for access points when configured with priority 1 or 4 is true?

- A. When configured with priority 4, the access point is assigned with the lowest priority level and it is marked as low. This access point fails over after other access points with the higher priority when there is primary controller failure.
- B. When configured with priority 4, the access point is assigned with the highest priority level and it is marked as critical. This access point fails over before other access points with the lower priority when there is primary controller failure.
- C. When configured with priority 1, the access point is assigned with the medium priority level and it is marked as medium. This access point fails over after other access points with the higher priority when there is primary controller failure.
- D. When configured with priority 1, the access point is assigned with the highest priority level and it is marked as critical. This access point fails over before other access points with the lower priority when there is primary controller failure.

**Answer: B**

#### **NEW QUESTION # 280**

An engineer must decide the cell overlap for a wireless voice deployment.

Which Cisco measurement recommendation should be considered?

- A. The edge of the cell should be -67 dBm.
- B. One AP should be deployed per 3000 square feet.
- C. The measurement should be done on the 2.4-GHz band.
- D. The edge of the cell should be below 35 RSSI.

**Answer: A**

Explanation:

#### **NEW QUESTION # 281**

Refer to the exhibit. An engineer determined that during a recent controller failure, some APs did not failover to their secondary controller based on the network design, which has sufficient licenses for all APs. The controllers are not in a mobility group but have A records for their hostnames in DNS. Which setting needs to be addressed?

- A. The AP failover priority was not set high enough.
- B. The controllers must be in the same mobility group.
- C. DNS hostnames are required to be FQDN.
- D. The secondary controller IP address is incorrect.

**Answer: D**

Explanation:

The question stated ENOUGH LICENSES, priority does not kick in.

#### **NEW QUESTION # 282**

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