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Cisco 300-425 Exam consists of 60-70 multiple-choice and simulation questions that must be completed in 90 minutes. 300-425 exam is administered by Pearson VUE and can be taken online or at a test center. Candidates who pass the exam will receive the Cisco Certified Specialist - Enterprise Wireless Design certification, which is recognized globally as a mark of excellence in wireless networking.

## Cisco Designing Cisco Enterprise Wireless Networks Sample Questions (Q124-Q129):

### NEW QUESTION # 124

The wireless survey report shows APs staggered throughout a facility, with several of them placed on the exterior walls. Other APs

are located at building corners and major turns in the structure layout. Assuming that all survey locations are optimized with a minimum of -67 RSSI at cell edges with 20% overlapping cells, for which purpose is this survey model used?

- A. location-based services, BYOD preparation, and HD video streaming
- B. voice, data clients, and video on demand
- C. streaming video with VoIP, data, and HD resolution
- D. location services, VoIP, data, and video

**Answer: D**

#### NEW QUESTION # 125

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

**Answer: D**

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 # 126

Which UDP port numbers are used for exchange mobility packets in an AireOS wireless deployment?

- A. UDP 16667 for control plane, UDP 16666 for data plane
- B. UDP 16668 for control plane, UDP 16667 for data plane

- C. UDP 16666 for control plane, UDP 16667 for data plane
- D. UDP 16666 for control plane, EoIP (IP protocol 97) for data plane

**Answer: C**

Explanation:

#### NEW QUESTION # 127

A company is in the process of relocating to a new office space and finds out that the Internet circuit will not be ready before the move. The new building has a non-Cisco WLAN to which they can connect. The engineer has a 12-port switch and one Cisco autonomous AP and must connect multiple wired devices. Which additional device is needed to get all clients connected over the workgroup bridge?

- A. hub
- B. transparent firewall
- C. router
- D. wireless controller

**Answer: C**

Explanation:

To connect multiple wired devices over a workgroup bridge using an autonomous AP, a router is needed to manage the IP addresses and route traffic between the wired devices and the wireless network. The router will act as a gateway for the wired devices, allowing them to communicate with the WLAN.

#### NEW QUESTION # 128

An engineer is designing a point-to-multipoint mesh network. Which two AP configurations must be completed for a site survey? (Choose two.)

- A. bridge group name
- B. Tx power
- C. mesh on 2.4 GHz band
- D. Rx power
- E. MAP hostnames

**Answer: B,D**

Explanation:

For a point-to-multipoint mesh network site survey, configuring the Rx power and Tx power is essential. Rx power will determine the sensitivity of the AP to incoming signals, which is crucial for understanding the reach of each mesh point. Tx power settings will influence the strength of the signals transmitted from the AP, affecting the network's overall coverage. References: Designing Cisco Enterprise Wireless Networks (ENWLSD 300-425)

#### NEW QUESTION # 129

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