

Exam Questions cwap-402

Certified Wireless Analysis Professional

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NEW QUESTION 1

You are using a laptop-based protocol analyzer to scan all channels and determine the basic configuration of the WLAN Basic Service Set in your facility. You are scanning all channels. All configured with default settings.

What can you change to cause the scan to run faster while still APs are capturing beacon frames on all the channels?

- A. Configure the RBW to more than 120 kHz
- B. Configure the scan time for channels to 300-500 ms
- C. Configure the fragmentation threshold to 1500 bytes
- D. Configure the scan time for channels to <100 ms

Answer: A

NEW QUESTION 2

You have captured 802.11 traffic using an adapter that includes the radio tap header. You see several frames often called announcement frames in the capture. What best describes these types of frames?

- A. They only include beacon and probe request frames
- B. They are used to allow a STA to awake from sleep and for no other reason
- C. They only include beacon and probe response frames
- D. They are meant to provide information to the network that may result in state changes, but they are not open for rejection

Answer: C

NEW QUESTION 3

You are troubleshooting throughput problems for a WLAN cell. The cell is provisioned with an 802.11ac dual-band AP. Users connected with both 5 GHz and 2.4 GHz connections are reporting performance problems. The AP settings are properly optimized. No interface issues have been detected (either co-channel interference or non-Wi-Fi interference) and the number of associated users is low.

What should you analyze to resolve the issue?

- A. The 2.4 GHz radio configuration
- B. The antennas used on the client devices
- C. the Ethernet uplink and the network infrastructure
- D. The 5 GHz radio configuration

Answer: C

NEW QUESTION 4

The To DS bit is set to 0 and the From DS is set to 1. What best describes this 802.11 frame?

- A. A frame being transmitted from an AP to a client STA
- B. A frame being transmitted in a mesh BSS
- C. A frame being transmitted from a client STA to an AP
- D. A frame being transmitted directly from one client STA to another

Answer: A

NEW QUESTION 5

You are analyzing a problem with a specific client adapter. The vendor specifications sheet does not provide detailed information.

What tool can you use to provide the most detailed specification information in many such cases?

- A. WLAN controller
- B. Spectrum analyzer
- C. FCC ID Search
- D. Wi-Fi finder

Answer: C

NEW QUESTION 6

VoIP is used heavily in your organization. You must troubleshoot problems with dropped calls on the WLAN.

What is a common cause of dropped calls when using Wi-Fi VoIP phones?

- A. Use of WMM
- B. Data rates below 54 Mbps
- C. Data rates below 75 Mbps
- D. Slow roaming

Answer: D

NEW QUESTION 7

You view a protocol analyzer capture decode with the following protocol frames listed in the following order (excluding the ACK frames): 1) 802.11 Probe Request and 802.11 Probe Response 2) 802.11 Auth and another 802.11 Auth 2) 802.11 Assoc Req and 802.11 Assoc Rsp 4) EAPOL-Start 5) EAP Request and EAP Response 6) EAP Request and EAP Response 7) EAP Request and EAP Response 8) EAP Request and EAP Response 9) EAP Request and EAP Response 10) EAP Success 19) EAPOL-Key (4 frames in a row)

What are you seeing in the capture file?

- A. WPA2-Personal authentication
- B. Wi-Fi Protected Setup with PIN
- C. WPA2-Enterprise authentication
- D. 802.1X with Dynamic WEP

Answer: C

NEW QUESTION 8

You are concerned with management overhead in your WLAN. When evaluating the network, you note that each dual-band AP provides for 4 SSIDs in each band with three secure SSIDs and one Open System SSID. The network runs only 802.11ac APs and uses 20 MHz channels in 2.4 GHz and 400 MHz channels in 5 GHz.

What can you do to reduce the impact of beacon frames on CCI and channel utilization?

- A. Increase the beacon interval
- B. Use only 40 MHz channels
- C. Use the same security across all SSIDs
- D. Disable SSID broadcasting

Answer: D

NEW QUESTION 9

You are using the real-time FFT display of a spectrum analyzer.

In what domain does this show the RF energy detected in the swept frequencies?

- A. Time
- B. Length
- C. Phase
- D. Frequency

Answer: C

NEW QUESTION 10

You are concerned about attackers gaining access to your WLAN from outside the facility.

Why does reducing the output power on the APs not provide sufficient certainty that an attacker outside the facility cannot gain access?

- A. Because RF signals can be received even when weak if using a Mac OS X computer
- B. Because the attacker can simply use high gain antennas
- C. Because the attacker can increase the output power of the radio on the client
- D. Because the attacker will simply use a lower gain antenna and a radio with higher receive sensitivity

Answer: B

NEW QUESTION 10

Given: Protocol analyzer often have useful graphical dashboards providing information about the health and operations of the WLAN.

What is a valid use of a graph showing the Top APs Based on Active Associations?

- A. Ensuring compliance with corporate security policies
- B. Discovering the total number of client STAs on your network
- C. Evaluating the capacity handling on a specific channel
- D. Locating overloaded APs

Answer: D

NEW QUESTION 12

You have received reports of performance problems in a BSS. One specific user is indicating that her downloads are taking a very long time compared to other users around her. You want to determine if the AP is sending frames multiple times to get through to the user's computer.

Where should you monitor with the protocol analyzer to see retries from the AP in this scenario?

- A. Directly in the middle of the AP and client STA
- B. Very near the AP
- C. Capture from another AP in another BSS
- D. Very near the client STA

Answer: B

NEW QUESTION 14

You must report on frame types seen on the WLAN. You want to list the frame types by both name and binary value.

What frame type is represented by the binary value 011010, which includes the Type and Subtype values?

- A. Beacon
- B. PS-Poll
- C. Authentication
- D. Association Request

Answer: B

NEW QUESTION 16

What element was added to the general frame of 802.11 with the 802.11e amendment and the 802.11-2007 rollup?

- A. HT Control
- B. Address 4
- C. QoS Control
- D. RSN-IE

Answer: C

NEW QUESTION 21

While troubleshooting DHCP issues, you perform a protocol capture in order to determine if the DNCP pool is depleted. The capture does not show DHCPnak messages.

Where else could you look to determine if the pool is depleted?

- A. Switch logs
- B. DHCP server logs
- C. Spectrum analyzer
- D. AP logs

Answer: B

Explanation:

A very common problem for WLANs is DHCP pool depletion. This occurs because many wireless clients come-and-go from the network quickly. If a client connects for only two or three minutes and the lease duration is set to multiple days (3-8 days is not uncommon), the IP address will be lost for that entire time. To resolve such issues, create more pools and reduce the lease duration to hours instead of days. Look for DHCP negative acknowledgement or server log errors to determine if the IP pool is depleted.

NEW QUESTION 23

You are performing 802.3 network analysis. For what are the DA and SA fields used in the frame header?

- A. Defining either direct access or sourced access
- B. Defining the addresses sending and receiving the frame
- C. Defining either distance access routing or strict access routing
- D. They are not used; addresses are only used in the 802.11 header

Answer: B

NEW QUESTION 26

As the WLAN administrator in your organization you are responsible for troubleshooting connection issues. Several STAs are connecting to the network, but are unable to communicate after connection. You suspect a DHCP problem. After capturing traffic on the wired-side of the AP, you want to view only DHCP traffic. What filter in Wireshark can be used for this purpose?

- A. DHCPv6
- B. DHCP
- C. BOOTP
- D. DHCPv4

Answer: C

NEW QUESTION 31

You have been asked to recommend a solution for protocol capture of 802.11 frames consisting of 3x3:3 802.11ac communications. The requirement specifies that you gain a general view of a coverage area and does not require that you capture from specific user locations. The solution must be the least expensive practical solution possible that does not disrupt user access to the WLAN and it must be based on enterprise WLAN hardware.

What solution would you recommend so that any coverage area could be monitored on demand?

- A. Install laptop-based protocol analyzer near each AP
- B. Install Wireshark on the Aps natively to allow dynamic capture while serving clients
- C. Install the minimum number of Aps required for coverage and use these Aps for protocol analysis as needed
- D. Install sufficient Aps so that an AP can be taken offline to perform protocol analysis as needed

Answer: B

NEW QUESTION 36

The manager in the security group is concerned about compliance with security policies on the WLAN. The budget is not available for a full WIPS SOLUTION. He has asked you to implement a process that will verify compliance.

What would you recommend in such a scenario?

- A. Use the built-in spectrum analyzer features of the APs to ensure that WPA2-Enterprise is implemented throughout the organization
- B. Simplify enable 802.11w, which will enforce management frame compliance
- C. Use a laptop-based protocol analyzer that provides compliance reporting to monitor the environment on a periodic basis
- D. Implement AP-based sensors throughout the facility and then monitor for performance issues with these sensors

Answer: C

NEW QUESTION 38

You have implemented an AP at a remote office. It is a single-band AP supporting 802.11ac. Several users complain that their laptops cannot connect to the WLAN. These laptops are from multiple vendors and range in age from 2 to 4 years. The SSID and security profile settings are correct. All default settings were used on the AP with the exception of the SSID and security settings.

What is the most likely issue preventing these STAs from connecting to the AP?

- A. They do not support VHT and only support OFDM
- B. They are 5 GHz-only devices
- C. They are 2.4 GHz-only devices
- D. They do not support the basic data rates

Answer: B

NEW QUESTION 40

You need to determine RF activity over time in a spectrum analyzer. It is to be able to see the activity and the amplitude of that activity.

What kind of view should be used?

- A. Real-time FFT
- B. Device listing
- C. Channel listing
- D. Swept spectrogram

Answer: D

Explanation:

The FFT shows spectral activity in the frequency domain, while waterfall or swept spectrogram views attempt to represent RF activity over time

NEW QUESTION 45

You are creating a baseline configuration for a pool of 100 laptops related to Wi-Fi. The laptops have dual-band 802.11ac adapters. They are configured for aggressive roaming.

What additional setting might you configure to ensure they access the WLAN on the channels with the least interference assuming the enterprise WLAN is well-designed?

- A. Band preference
- B. USB speed
- C. 802.11h
- D. Power management

Answer: A

NEW QUESTION 46

Given: Adjacent Channel Interference (ACI) can cause frame corruption and poor performance in WLANs. You are using a protocol analyzer in the attempt to detect ACI.

What should you look for in such a scenario?

- A. Look at Retry counts
- B. Capture on the channel you think may be impacted by ACI and see if any frames are captured from adjacent channels
- C. Look for frames with a low signal strength value in the radio tap header
- D. Look at CRC errors

Answer: B

NEW QUESTION 48

You are tasked with describing the various frames used in 802.11 communications.

What frame is used for spectrum management, fast BSS transition and some other actions taken within a BSA?

- A. BlockAck
- B. CTS
- C. PS Poll
- D. Action

Answer: D

NEW QUESTION 51

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