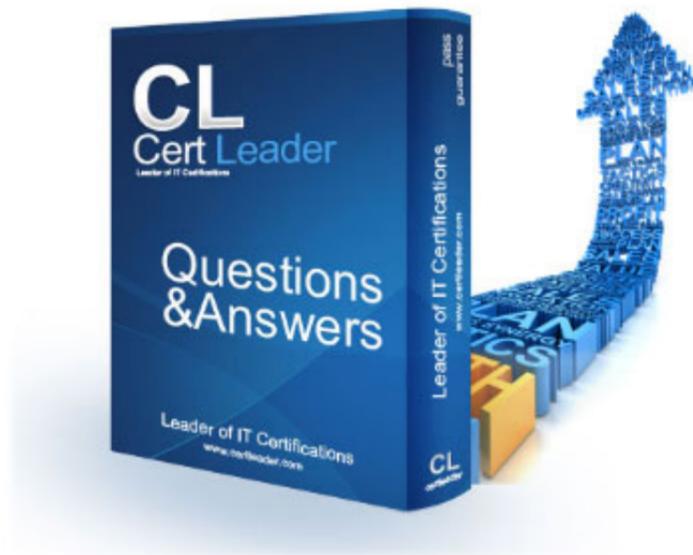


cwap-402 Dumps

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

The data rate for a data frame is 150 Mbps in 5 GHz. What rate is used to transmit the PHY header information?

- A. 1 Mbps
- B. 150 Mbps
- C. 75 Mbps
- D. 6 Mbps

Answer: A

NEW QUESTION 3

What is the Extended IFS used in 802.11 contention?

- A. When the higher data rates are used and you want the fastest medium access times
- B. When the lower data rates are used and you want the fastest medium access times
- C. When 802.11ac must coexist with 802.11n
- D. When a frame reception begins but the received frame is incomplete or corrupted based on the FCS

Answer: C

NEW QUESTION 4

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 5

You are attempting to determine timing information within a packet capture of a WLAN protocol analyzer. What time is used to display the time the packet was captured based on the system clock in the computer?

- A. Relative
- B. Arrival
- C. Interframe
- D. Delta

Answer: B

Explanation: Arrival Time—This is the time that is assigned to a packet after it is processed by the host system. This timestamp is dependent upon the system clock of the computer, and designates when the packet was captured.

NEW QUESTION 6

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 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 working in an organization that has implemented an SCA-based WLAN. You want to change the RF channel for a single AP. What can you do to perform this task with some SCA solutions?

- A. Access the AP using SSH and change the channel
- B. Access the AP through the console port and change the channel
- C. Access the AP using Telnet and change the channel
- D. Convert the network to MCA

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 using a Wireless Aggregator utility to combine multiple packet captures. One capture exists for each of channels 1, 6 and 11. What kind of troubleshooting are you likely performing with such a tool?

- A. Fast secure roaming problems.
- B. Narrowband DoS attack detection.
- C. Interference source location.
- D. Wireless adapter failure analysis.

Answer: C

NEW QUESTION 10

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 11

You are explaining capacity planning to another engineer assisting you on a WLAN implementation project. As part of the explanation, you provide the following formula: $C = B$

$* \log_2(1 + S/N)$.

What does this formula define?

- A. Bandwidth capabilities of a channel
- B. The WEP encryption algorithm
- C. Minimum signal strength for a data rate
- D. Maximum signal strength of a channel

Answer: A

NEW QUESTION 13

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 14

You want to simplify viewing frames of a particular type in Wireshark. What is used to specify frames for colorization?

- A. Custom code must be written and the binaries recompiled
- B. Automated protocol analysis is used and no additional options may be specified
- C. Filters are used to define the frames that should be colorized
- D. A scripting language is available to modify the code before recompilation

Answer: C

Explanation: Protocol analyzers also support highlighting or colorization and filtering. The highlighting feature allows you to define colors for packets or frames matching particular criteria. It allows those frames to stand out as you browse through the captured frames

NEW QUESTION 17

A new firmware has been released for the AP model you use in your WLAN. You have more than 120 of these APs installed. What is a good reason for applying a firmware update on an enterprise AP?

- A. Enable new security features and patch vulnerabilities
- B. Enable 4x4:4 spatial streams on a 3x3:3 AP
- C. Enable the short guard interval
- D. Disable lower data rates

Answer: A

NEW QUESTION 20

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 25

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 27

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 32

You are troubleshooting problems with DHCP in relation to lightweight APs. They vendor class identifier (VCI) is not specified in the DHCP server. When you contact vendor support, they inform you that it is not necessary. When is this information true?

- A. When only one client option 43 value is required
- B. When only one AP exists on the subnet
- C. When the DHCP server is directly connected to the subnet
- D. When only one client option 60 value is required

Answer: A

Explanation: The DHCP server should be configured to provide the IP address information to the APs, but it may also be required to pass information for option 43. Option 43 is a vendor information option and can be used for any vendor purpose. The vendor class identifier (VCI) (for example, "Cisco AP c3600") is used with option 60 to determine the appropriate information to return with option 43.

NEW QUESTION 33

You work as an SE for a value-added reseller. A client has an existing deployment of 802.11n Aps and wants to upgrade several BSSs to 802.11ac. What hardware feature of some enterprise Aps may allow for this without a forklift upgrade?

- A. Adding an 802.11ac module to the existing APs
- B. Simply check the Enable 802.11ac checkbox in the web-based configuration interface
- C. Replace the antennas with 802.11ac antennas
- D. Converting the 802.11n radio to an 802.11ac radio through software

Answer: B

NEW QUESTION 38

You are responsible for troubleshooting and analysis of the WLAN in your organization that supports more than 700 client STAs. Forty APs are deployed and they are all dual-band APs and are controller-based. You must troubleshoot the wired side in some scenarios using a protocol analyzer. Which one of the following problems would warrant wired-side analysis in most situations?

- A. High 802.11 retry rates
- B. High 802.11 CRC rates
- C. WMM QoS issues
- D. DHCP problems

Answer: C

NEW QUESTION 41

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 43

What action is taken automatically by 802.11 APs and client STAs as the signal strength of the link weakens in order to improve the quality of the RF communications overall?

- A. Output power is increased
- B. RSSI is increased
- C. Data rates are reduced
- D. Antenna gain is increased

Answer: C

NEW QUESTION 45

You are repairing a misconfiguration in WMM settings on an AP. The aCWmin and aCWmax values were all changed. What is the default aCWmax for AC_BK?

- A. 1024
- B. 1023
- C. 15
- D. 7

Answer: B

NEW QUESTION 47

ABC Company requires the ability to identify and quickly locate rogue devices. ABC has chosen an overlay WIPS solution with Wi-Fi sensors that use dipole antennas to perform this task. No other sensors are included. Use your knowledge of location tracking techniques to answer the question. Which one of the following location methods is not available in the described system?

- A. GPS Positioning
- B. Time Difference of Arrival (TDoA)
- C. RF Fingerprinting
- D. Trilateration of RSSI measurements

Answer: C

NEW QUESTION 51

During an initial install of a controller-based WLAN, the APs are not locating the WLAN controller. The controller is two router hops away from the nearest AP. DHCP is not used. When performing a packet trace, you see a DNS response code of 3 targeted at one of the APs. What is the problem?

- A. The DNS server is not authoritative for the domain
- B. The router is not forwarding packets to the DNS server
- C. The controller host record has not been created in the DNS server
- D. The authentication to the DNS server failed

Answer: C

NEW QUESTION 52

You have been asked to recommend a protocol analysis solution that uses open source software and works with the Linux platform. It must provide decoding of 802.11ac frames and minimal support for reporting and statistics. What solution would you recommend?

- A. Wi-Fi Analyzer Pro
- B. OmniPeek
- C. Wireshark
- D. CommView for Wi-Fi

Answer: C

NEW QUESTION 57

Several users have reported WLAN network connection issues and the users connect to the same AP. These users are spread throughout a 320 square meter area. Using a spectrum analyzer, you see RF energy across the entire 2.4 GHz band at significant signal strength levels. The users all connect using either HT or ERP devices. What is the likely cause of this problem within this area?

- A. Wide-band jammer
- B. Microwave oven
- C. Bluetooth devices
- D. Video camera

Answer: A

NEW QUESTION 62

As the WLAN engineer in your organization, you must troubleshoot performance problems related to co-channel interference (CCI). What is a good measurement of CCI impact in addition to the number of APs seen on a channel?

- A. The frequency used
- B. Non-Wi-Fi device count
- C. Retries
- D. Utilization

Answer: A

NEW QUESTION 64

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