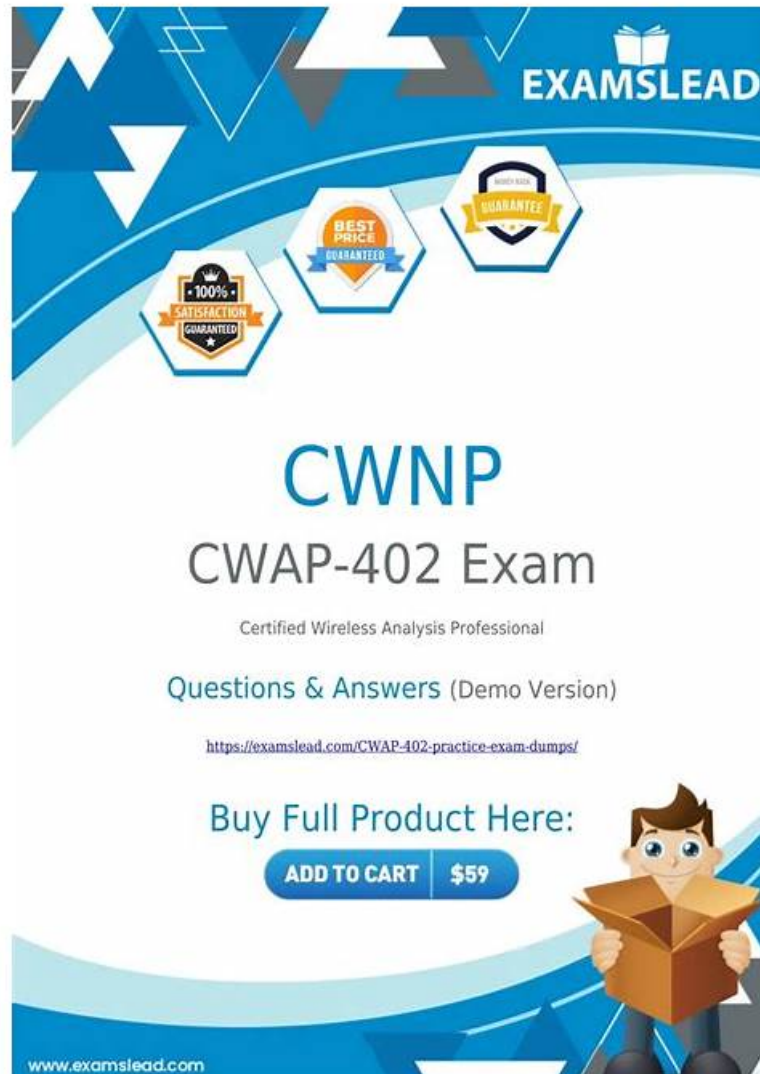


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CWNP CWAP-404 Exam Topics:

Section	Objectives
Protocol Analysis - 15%	
Capture 802.11 frames using the appropriate methods	- Select capture devices • Laptop protocol analyzers • APs, controllers, and other management solutions • Specialty devices (hand-held analyzers and custom-built devices) - Install monitor mode drivers - Select capture location(s) - Capture sufficient data for analysis - Capture all channels or capture on a single channel as needed - Capture roaming events
Understand and apply the common capture configuration parameters available in protocol analysis tools	- Save to disk - Packet slicing - Event triggers - Buffer options - Channels and channel widths - Capture filters - Channel scanning and dwell time
Analyze 802.11 frame captures to discover problems and find solutions	- Use appropriate display filters to view relevant frames and packets - Use colorization to highlight important frames and packets - Configure and display columns for analysis purposes - View frame and packet decodes while understanding the information shown and applying it to the analysis process - Use multiple adapters and channel aggregation to view captures from multiple channels - Implement protocol analyzer decryption procedures - View and use a capture's statistical information for analysis - Use expert mode for analysis - View and understand peer maps as they relate to communications analysis
Utilize additional tools that capture 802.11 frames for analysis and troubleshooting	- WLAN scanners and discovery tools - Protocol capture visualization and analysis tools - Centralized monitoring, alerting, and forensic tools

Ensure appropriate troubleshooting methods are used with all analysis types	- Define the problem - Determine the scale of the problem - Identify probable causes - Capture and analyze the data - Observe the problem - Choose appropriate remediation steps - Document the problem and resolution
Spectrum Analysis - 10%	
Capture RF spectrum data and understand the common views available in spectrum analyzers	- Install, configure, and use spectrum analysis software and hardware - Capture RF spectrum data using handheld, laptop-based, and infrastructure spectrum capture solutions - Understand and use spectrum analyzer views • Real-time FFT • Waterfall, swept spectrogram, density, and historic views • Utilization and duty cycle • Detected devices • WLAN integration views
Analyze spectrum captures to identify relevant RF information and issues	- RF noise floor in an environment - Signal-to-Noise Ratio (SNR) for a given signal - Sources of RF interference and their locations - RF channel utilization - Non-Wi-Fi transmitters and their impact on WLAN communications - Overlapping and non-overlapping adjacent channel interference - Poor performing or faulty radios
Analyze spectrum captures to identify various device signatures	- Identify various 802.11 PHYs • DSSS • OFDM • OFDMA • Channel widths • Primary channel - Identify non-802.11 devices based on RF behaviors and signatures • Frequency hopping devices • IoT devices • Microwave ovens • Video devices • RF Jammers • Cordless phones
Use centralized spectrum analysis solutions	- AP-based spectrum analysis - Sensor-based spectrum analysis
PHY Layers and Technologies - 10%	

Understand and describe the functions of the PHY layer and the PHY protocol data units (PPDUs)	- DSSS (Direct Sequence Spread Spectrum) - HR/DSSS (High Rate/Direct Sequence Spread Spectrum) - OFDM (Orthogonal Frequency Division Multiplexing) - ERP (Extended Rate PHY) - HT (High Throughput) - VHT (Very High Throughput) - HE (High Efficiency) • HE SU PPDU • HE MU PPDU • HE ER SU PPDU • HE TB PPDU • HE NULL data packets
Apply the understanding of PHY technologies, including PHY headers, preambles, training fields, frame aggregation, and data rates, to captured data	
Identify and use PHY information provided within pseudo-headers in protocol analyzers	- Pseudo-Header formats • Radiotap • Per Packet Information (PPI) - Key pseudo-header content • Guard intervals • Resource units allocation • PPDU formats • Signal strength • Noise • Data rate and MCS index • Length information • Channel center frequency or received channel • Channel properties
Recognize the limits of protocol analyzers to capture PHY information including NULL data packets and PHY headers	
Use appropriate capture devices based on proper understanding of PHY types	- Supported PHYs - Supported spatial streams
MAC Sublayer and Functions - 25%	
Understand frame encapsulation and frame aggregation	- Frame aggregation (A-MSDU and A-MPDU)

Identify and use MAC information in captured data for analysis	- Management, Control, and Data frames - MAC frame formats and contents • Frame Control field • To DS and From DS fields • Address fields • Frame Check Sequence (FCS) field - 802.11 Management frame formats • Information Elements • Authentication • Association and Reassociation • Beacon • Probe Request and Probe Response - Data and QoS Data frame formats - 802.11 Control frame formats • Acknowledgement (ACK) • Request to Send/Clear to Send (RTS/CTS) • Block Acknowledgement and related frames • Trigger frames • VHT/HE NDP announcements • Multiuser RTS
Validate BSS configuration through protocol analysis	- Country code - Minimum basic rate - Supported rates and coding schemes - Beacon interval - WMM settings - RSN settings - HT/VHT/HE operations - Channel width - Primary channel - Hidden or non-broadcast SSIDs

CWNP Certified Wireless Analysis Professional Sample Questions (Q126-Q131):

NEW QUESTION # 126

The network administrator at ABC Engineering has taken a large packet capture from one of their APs running in monitor mode. She has very little knowledge of 802.11 protocols but would like to use the capture file to evaluate the overall health and performance of their wireless network. When she asks your advice, which tool do you recommend she opens the packet capture file with?

- A. Python
- **B. Capture visualization tool**
- C. Spectrum analyzer
- D. WLAN scanner

Answer: B

Explanation:

Explanation

A capture visualization tool is a software application that can open a packet capture file and display various graphs, charts, tables, and statistics that illustrate the characteristics and behavior of the wireless network. A capture visualization tool can help a network administrator with little knowledge of 802.11 protocols to evaluate the overall health and performance of their wireless network by providing a visual and intuitive representation of the captured data. A spectrum analyzer is a hardware device that measures the radio frequency signals in a given frequency range and displays their amplitude, frequency, and modulation. A spectrum analyzer can help

identify sources of interference and noise in the wireless environment, but it cannot open a packet capture file. Python is a programming language that can be used to write scripts or applications that manipulate or analyze packet capture files, but it requires coding skills and knowledge of

802.11 protocols. A WLAN scanner is a software application that scans for available wireless networks and displays information such as SSID, BSSID, channel, signal strength, security type, and vendor. A WLAN scanner can help discover wireless networks and their basic parameters, but it cannot open a packet capture file.

345 References:
CWAP-404 Study Guide, Chapter 2: Protocol Analysis, page 63

CWAP-404 Objectives, Section 2.5: Use capture visualization tools

CWAP-404 Study Guide, Chapter 4: Spectrum Analysis and Troubleshooting, page 117
CWAP-404 Objectives, Section 4.1: Use spectrum analysis tools
CWAP-404 Study Guide, Chapter 2: Protocol Analysis, page 33
CWAP-404 Objectives, Section 2.2: Analyze field values

NEW QUESTION # 127

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

Answer: B

NEW QUESTION # 128

You are troubleshooting a client that is experiencing slow WLAN performance. As part of the troubleshooting activity, you start a packet capture on your laptop close to the client device. While analyzing the packets, you suspect that you have not captured all packets transmitted by the client. By analyzing the trace file, how can you confirm if you have missing packets?

- A. Protocol Analyzers show the number of missing packets in their statistics view
- B. The missing packets will be shown as CRC errored packets
- C. Retransmission are an indication of missing packets
- **D. Look for gaps in the sequence number in MAC header**

Answer: D

Explanation:

One way to confirm if you have missing packets in your packet capture is to look for gaps in the sequence number in MAC headers. The sequence number is a 12-bit field in the MAC header that is used to identify and order data frames within a traffic stream. The sequence number is incremented by one for each new data frame transmitted by a STA, except for retransmissions, fragments, and control frames. The sequence number can range from 0 to 4095, and then wraps around to 0. If you see a jump or a gap in the sequence number between two consecutive data frames from the same STA, it means that you have missed some packets in between. The other options are not correct, as they do not confirm if you have missing packets in your packet capture. CRC errored packets are packets that have been corrupted during transmission and have failed the error detection check. Protocol analyzers may show the number of CRC errored packets in their statistics view, but not the number of missing packets. Retransmissions are an indication of packet loss or collision, but not necessarily of missing packets in your capture.

NEW QUESTION # 129

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 2.4 GHz-only devices**

- C. They are 5 GHz-only devices
- D. They do not support the basic data rates

Answer: B

Explanation:

Since the AP is a single-band AP supporting 802.11ac, it operates only on the 5 GHz band. If the laptops are 2.4 GHz-only devices, they will not be able to connect because they do not support the 5 GHz band that the AP is operating on. This is likely the issue preventing these older devices from connecting to the WLAN.

NEW QUESTION # 130

Given: The Frame Check Sequence (FCS) is a 32 CRC used for error detection.
The CRC is calculated over what?

- A. PHY Header and Mac Header only
- **B. Mac Header and Frame Body only**
- C. Frame Body only
- D. PHY Header, MAC Header and Frame Body

Answer: B

Explanation:

Explanation

The CRC is calculated over the MAC Header and Frame Body only. The CRC (Cyclic Redundancy Check) is a 32-bit value that is used for error detection in wireless transmissions. The CRC is calculated over the MAC Header and Frame Body of a PSDU, which are the parts of the data unit that contain information such as source and destination addresses, frame type, frame control, sequence number, payload, etc. The CRC is appended to the end of the PSDU as a FCS (Frame Check Sequence) field. The CRC is not calculated over the PHY Header or PHY Preamble, which are parts of the PPDU that contain information such as modulation, coding, data rate, etc. The PHY Header and PHY Preamble are added or removed by the PHY layer during the conversion between PSDU and PPDU. References: [Wireless Analysis Professional Study Guide CWAP-404], Chapter 4: 802.11 Physical Layer, page 97-98

NEW QUESTION # 131

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