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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 • Prove 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
Identify and analyze CRC error frames and retransmitted frames	

WLAN Medium Access - 10%

Understand 802.11 contention algorithms in-depth and know how they impact WLANs	- Distributed Coordination Function (DCF)
	
	    • Carrier Sense (CS) and Energy Detect (ED)
	    • Network Allocation Vector (NAV)
	    • Contention Windows (CW) and random backoff
	    • Interframe spacing
	
	- Enhanced Distributed Channel Access (EDCA)
	
	    • EDCA Function (EDCAF)
	    • Access Categories and Queues
	    • Arbitration Interframe Space Number (AIFSN)
	
	- Wi-Fi Multimedia (WMM)
	
	    • WMM parameters
	    • WMM-Power Save
	    • WMM-Admission Control

Analyze QoS configuration and operations	- Verify QoS parameters in capture files - Ensure QoS is implemented end-to-end

802.11 Frame Exchanges - 30%

Capture, understand, and analyze BSS discovery and joining frame exchanges	- BSS discovery
	- 802.11 Authentication and Association
	- 802.1X/EAP exchanges
	- Pre-Shared Key authentication
	- Four-way handshake
	- Group key exchange
	- Simultaneous Authentication of Equals (SAE)
	- Opportunistic Wireless Encryption (OWE)
	- WPA2 and WPA3
	- Fast secure roaming mechanisms
	
	    • Fast BSS Transition (FT) roaming exchanges
	    • Pre-FT roaming exchanges
	
	- Neighbor discovery (802.11k/v)
	- Hotspot 2.0 protocols and operations from the client access perspective
	
	    • ANQP
	    • Initial access

Analyze roaming behavior and resolve problems related to roaming	- Sticky clients - Excessive roaming - Channel aggregation for roaming analysis

Analyze data frame exchanges	- Data frames and acknowledgement frames - RTS/CTS data frame exchanges - QoS Data frame exchanges - Block Acknowledgement exchanges

Analyze MIMO and multiuser-specific transmission methods	- MIMO
	
	  • Transmit Beamforming (TxBF)
	  • MU-MIMO
	
	- OFDMA
	
	  • Scheduling and trigger frames

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CWNP Certified Wireless Analysis Professional Sample Questions (Q35-Q40):

NEW QUESTION # 35
Which one of the following is an advantage of using display filters that is not an advantage of capture-time filters?

- A. Once created they are reusable for later captures
- B. They only hide the packets from view and the filtered packets can be enabled for view later
- C. Multiple of them can be applied simultaneously
- D. They allow for focused analysis on just the packets of interest

Answer: B

Explanation:
Display filters are applied after the capture is completed and they only hide the packets from view. The filtered packets are still present in the capture file and can be enabled for view later by changing or removing the display filter. This is an advantage over capture-time filters, which discard the packets that do not match the filter criteria and cannot be recovered later.

NEW QUESTION # 36
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. Swept spectrogram
- B. Real-time FFT
- C. Device listing
- D. Channel listing

Answer: A

NEW QUESTION # 37

Given: There are many differences between analyzing wireless and wired networks. In a wireless network, there is no guarantee that one station can hear another station's transmissions.

If no corrective actions are taken nor corrective mechanisms implemented when a "hidden node" problem exists, which measurable statistics parameter will likely increase in a wireless protocol analyzer?

- A. ACK Timeout
- B. Contention Window
- C. Duration value
- D. BlockAck Reset
- E. Authentication Failure
- F. Retransmission Count

Answer: F

NEW QUESTION # 38

When evaluating modulation and coding schemes, you must determine the best coding rate available.
In 802.11 MCS tables, what is the best coding rate from the perspective of highest data rates?

- A. 1/2
- B. 2/3
- C. 5/6
- D. 3/4

Answer: C

NEW QUESTION # 39

When configuring a long term, forensic packet capture and saving all packets to disk which of the following is not a consideration?

- A. Analyzer location
- B. Real-time packet decodes
- C. Individual trace file size
- D. Total capture storage space

Answer: B

Explanation:
Real-time packet decodes are not a consideration when configuring a long-term, forensic packet capture and saving all packets to disk. Real-time packet decodes are useful for live analysis and troubleshooting, but they consume CPU and memory resources that could affect the performance of the capture process. For a long-term, forensic packet capture, it is more important to consider the analyzer location, the total capture storage space, and the individual trace file size. These factors affect the quality and quantity of the captured packets and the ease of post-capture analysis.

NEW QUESTION # 40

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