

CWNP CWAP-402 Exam

Volume: 60 Questions

Question No: 1

You are troubleshooting a connection problem with a client STA. Regardless of the AP to which it attempts to connect, the connection fails. Using a wired protocol analyzer, you determine that the problem is with the 802.IX/EAP authentication to the RADIUS server.

What layer or range of layers of the OSI model revealed this information?

- A. Layer 3
- B. Layer 2
- C. Below Layer 3
- D. Above Layer 4

Answer: A

Question No: 2

iPerf is a tool used in what category of testing?

- A. Configuration
- B. Connection
- C. Name resolution
- D. Throughput

Answer: D

Question No: 3

You are attempting to work through a user complaint with the (WNP-recommended troubleshooting methodology.

What must be clearly identified in order to reduce the number of possible causes at step three?

- A. The user name
- B. The problem

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- C. The device type
- D. The user's IP configuration

Answer: B

Question No: 4

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

Question No: 5

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

Question No: 6

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. 5/6

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B. 3/4

C. 2/3

D. 1/2

Answer: A

Question No: 7

To what data rates can a 5 GHz PHY device shift when changes occur in the signal strength?

A. 11, 5.5, 2, 1

B. 24, 18, 12, 5.5

C. 24, 18, 11, 2

D. 24, 18, 12, 6

Answer: D

Question No: 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

Question No: 9

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

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- 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

Question No: 10

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

Question No: 11

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

Question No: 12

The To DS bit is set to 0 and the From DS is set to 1.

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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

Question No: 13

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

Question No: 14

You are considering the performance of a BSS based on different PHY types used. In the BSS, one device must use ERP as it does not support HT in its 2.4 GHz band.

What is the duration of the interframe space for this ERP device for standard data frame transmissions?

- A. 10 microseconds
- B. 16 microseconds
- C. 28 microseconds
- D. 9 microseconds

Answer: B