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QUESTION 1

You are troubleshooting a WLAN problem and you suspect hidden node as the cause. What should you look for in a protocol analyzer?

- A. Frames with the HN bit set to 1
- B. Frames with the retry bit set to 0
- C. Frames transmitted from the AP without acknowledgement
- D. Retransmitted frames from multiple STAs at higher rates than other STAs

Correct Answer: D

Reference

<http://setup-wireless.blogspot.com/2008/11/wireless-hidden-node.html>

QUESTION 2

In which plane of the three networking planes is an access point configured by a WLAN controller?

- A. Control
- B. Management
- C. Security
- D. Data

Correct Answer: B

Reference

<https://books.google.com.pk/books?id=HQxhBgAAQBAJandpg=PA343andlpg=PA343anddq=plane+of+the+three+networking+planes+is+an+access+point+configured+by+a+WLAN+controllerandsource=blandots=Gqcr0edoC1andsig=aiXdcrWSHcgrRrznWpICAibprMandhl=enandsa=Xandved=0ahUKEwiWmqmcj6vZAhVJy6QKHTnhDt0Q6AEIPTAE#v=onepageanddq=plane%20of%20the%20three%20networking%20planes%20is%20an%20access%20point%20configured%20by%20a%20WLAN%20controllerandf=false>

QUESTION 3

You are troubleshooting a controller-based AP that is unable to locate the controller. DHCP is not use and the controller is located at 10.10.10.81/24 while the AP is on the 10.10.16.0/24 network. What should be inspected to verify proper configuration?

- A. NTP
- B. BOOTH

- C. DNS
- D. AP hosts file

Correct Answer: C

QUESTION 4

What ID is typically mapped to an AP's MAC address if a single BSS is implemented?

- A. VLAN ID
- B. BSSID
- C. Device ID
- D. SSID

Correct Answer: B

Reference [https://technet.microsoft.com/en-us/library/cc757419\(v=ws.10\).aspx](https://technet.microsoft.com/en-us/library/cc757419(v=ws.10).aspx)

QUESTION 5

The IEEE 802.11-2016 standard requires VHT capable devices to be backward compatible with devices using which other 802.11 physical layer specification (PHY)?

- A. ERP-PBCC
- B. DSSS
- C. OFDM
- D. HR/DSSS

Correct Answer: C

QUESTION 6

What factor is likely to cause the least impact on the application layer throughput of an 802.11n client station in a 2.4 GHz HT BSS?

- A. Increasing or decreasing the number of spatial streams in use by the client station and AP
- B. Implementation of several other clients in the same BSS using 802.11 g radios
- C. Implementing Fast BSS Transition (FT) for roaming
- D. RF interference from more than 10 nearby Bluetooth transmitters

Correct Answer: A

QUESTION 7

You support a WLAN using dual-band 802.11ac three stream access points. All access points have both the 2.4 GHz and 5 GHz radios enabled and use 40 MHz channels in 2.4 GHz. A manager is concerned about the fact that each access point is connected using a 1 Gbps Ethernet link. He is concerned that the Ethernet link will not be able to handle the load from the wireless radios. What do you tell him?

- A. His concern is valid and the company should upgrade all Ethernet link to 10 Gbps immediately.
- B. His concern is valid and the company should immediately plan to run a second 1 Gbps Ethernet link to each AP.
- C. Due to 802.11 network operations and dynamic rates used by devices on the network, the two radios will likely not exceed the 1 Gbps Ethernet link .
- D. His concern is invalid because the AP will compress all data before transmitting it onto the Ethernet link.

Correct Answer: D

QUESTION 8

When a STA has authenticated to an AP (AP-1), but still maintains a connection with another AP (AP-2), what is the state of the STA on AP-1?

- A. Transitional
- B. Unauthenticated and Unassociated
- C. Authenticated and Unassociated
- D. Authenticated and Associated

Correct Answer: A

Reference https://www.cisco.com/c/en/us/td/docs/wireless/controller/8-1/Enterprise-Mobility-8-1-Design-Guide/Enterprise_Mobility_8-1_Deployment_Guide/Chapter-11.pdf

QUESTION 9

What phrase defines Equivalent Isotropically Radiated Power (EIRP)?

- A. Power supplied from the transmission line to the antenna input
- B. The power output from the radio after cable losses
- C. The power output from the radio into the RF cable
- D. The highest RF signal strength that is transmitted from a given antenna

Correct Answer: D

QUESTION 10

Which IEEE 802.11 physical layer (PHY) specification includes support for and compatibility with both ERP and HR/DSSS?

- A. VHT (802.11ac)
- B. OFDM (802.11a)
- C. DSSS (802.11-Prime)
- D. HT (802.11n)

Correct Answer: D

QUESTION 11

You are implementing a VHT-capable AP. Which one of the following channels is available in the 802.112016 standard that was not available before the ratification of 802.11 ac?

- A. 153
- B. 161
- C. 144
- D. 56

Correct Answer: C

QUESTION 12

What statement about the IEEE 802.11-2016 QoS facility is true?

- A. 802.11 QoS is achieved by giving high priority queues a statistical advantage at winning contention.
- B. Four 802.1p user priorities are mapped to eight 802.11 transmit queues.
- C. 802.11 control frames are assigned to the 802.11 EF priority queue.
- D. When the Voice queue has frames awaiting transmission, no data will be transmitted from the Best Effort queue.

Correct Answer: A

QUESTION 13

What Linux shell command can be used to view the hardware and PHY capabilities of a wireless adapter in detail including channel widths, output power settings, channels supported, and more?

- A. ifconfig

- B. iw phy
- C. netsh wlan show device
- D. iwconfig

Correct Answer: D

QUESTION 14

A client complains of low data rates on his computer. When you evaluate the situation, you see that the signal strength is -84 dBm and the noise floor is -96 dBm. The client is an 802.11ac client and connects to an 802.11acAP. Both the client and AP are 2x2:2 devices. What is the likely cause of the low data rate issue?

- A. Weak signal strength
- B. Too few spatial streams
- C. Lack of support 802.11n
- D. CAT5e cabling run to the AP

Correct Answer: A

QUESTION 15

You are evaluating access points for use in the 5 GHz frequency band. What PHY supports this band and supports 80 MHz channels?

- A. OFDM
- B. HT
- C. VHT
- D. ERP

Correct Answer: C

Reference <https://www.cwnp.com/802-11ac-vht-just-the-facts/>

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