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QUESTION

Certified Wireless Design Professional CWDP-305 Exam Questions

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CWNP CWDP-305 Exam Syllabus Topics:

Topic	Details
Topic 1	<ul style="list-style-type: none">Define Specifications for the WLAN: This section of the exam measures the skills of a Wireless Network Planner and focuses on gathering business and technical requirements needed for designing wireless LANs. It includes understanding user needs, regulatory and safety constraints, and environmental factors. Candidates are expected to identify critical elements such as coverage, capacity, security, and device compatibility, and to analyse existing infrastructure and documentation to ensure a successful design strategy.
Topic 2	<ul style="list-style-type: none">Design the WLAN: This section of the exam measures the skills of a WLAN Design Engineer and covers the process of selecting configurations, architecture types, and wireless components to meet business and technical requirements. It includes using design software, selecting access points and antennas, and applying methodologies such as predictive or measured design. Candidates must demonstrate the ability to produce effective documentation and configure features like QoS, roaming security, and network services for different types of client devices and applications.
Topic 3	<ul style="list-style-type: none">Validate and Optimize the WLAN: This section of the exam measures the skills of a WLAN Optimization Specialist and assesses the ability to test, validate, and fine-tune wireless networks post-deployment. Key tasks include RF validation surveys, performance testing, troubleshooting connectivity and security issues, and applying appropriate physical or RF adjustments. It also involves client testing and final project handover, including documentation, knowledge transfer, and meetings to ensure long-term WLAN success.

Topic 4	<ul style="list-style-type: none"> • Deploy the WLAN: This section of the exam measures the skills of a WLAN Implementation Specialist and involves overseeing the deployment phase of wireless networks. It focuses on understanding deployment procedures for various WLAN architectures, configuring supporting infrastructure, and verifying proper installation. The section also addresses physical installation checks, documentation handover, and quality assurance practices during ongoing installations.
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CWNP Certified Wireless Design Professional Sample Questions (Q25-Q30):

NEW QUESTION # 25

Main Topic:Post-Design ValidationandTroubleshooting

Question:

iPerf is a tool used in site surveys and validation surveys for what purpose?

- A. Signal strength mapping
- B. RSSI tracking
- C. CCI detection
- D. Throughput testing
- E. Data rate mapping

Answer: D

Explanation:

Comprehensive and Detailed Explanation:

iPerf is a widely used network testing tool that measures the maximum achievable bandwidth on IP networks.

In the context of wireless site surveys and validation, iPerf is utilized to perform throughput testing, providing insights into the data transfer rates between devices. This information is vital for assessing the performance of the wireless network and ensuring it meets the required specifications.

Reference:CWDp-305 Study Guide, Chapter on Post-Design ValidationandTroubleshooting - Tools for Performance Testing.

NEW QUESTION # 26

When using a predictive design tool, you have selected access points (APs) with an antenna gain of 3 dBi and set the transmit power to 25 mW. What is the EIRP (Effective Isotropic Radiated Power) of the APs in this design?

- A. 17 dBm
- B. 6.25 mW
- C. 125 mW
- D. 11 dBm

Answer: A

NEW QUESTION # 27

You conducted a site survey using two USB Wi-Fi adapters with a special driver designed for the site survey software. After deployment, the client devices show lower RSSI values compared to the results from your survey. What is the most likely reason for this discrepancy?

- A. USB Wi-Fi adapters designed for site surveys may have better sensitivity than regular Wi-Fi cards installed in client devices
- B. All USB Wi-Fi adapters have a greater sensitivity than internal Wi-Fi adapters
- C. The transmit power on the APs is higher than needed
- D. Regular Wi-Fi cards installed in client devices do not support the same protocols as survey adapters

Answer: A

Explanation:

Site survey adapters are often specialized devices with enhanced sensitivity and are calibrated for accurate measurements. In contrast, standard client devices may have varying hardware and driver configurations, leading to differences in RSSI readings. Therefore, it's common to observe discrepancies between survey results and actual client experiences. This emphasizes the importance of considering client device capabilities during WLAN design and validation.

Reference: CWDP-305 Official Study and Reference Guide, Chapter on Advanced Site Surveys

NEW QUESTION # 28

ABC Company has a WLAN controller with 10 controller-based APs; the Voice SSID is configured for centralized data forwarding. Each AP is connected to an access port on a layer-2 Ethernet switch. Each layer-2 switch is uplinked to a single layer-3 core Ethernet switch. The WLAN controller is connected directly to the layer-3 core Ethernet switch. Layer-3 tunnels are created between all controller-based APs and the WLAN controller. A voice server is connected to the layer-3 Ethernet switch.

When a voice-enabled QoS STA sends an IP data packet to a voice server in this scenario, the DSCP value carried in the STA's IP data packet gets mapped to what and by which device?

- A. The DSCP value is mapped to an IEEE 802.1Q VLAN tag by the access point.
- B. The DSCP value is mapped to an IEEE 802.1Q priority tag value by the WLAN controller.
- C. The DSCP value is mapped to an IEEE 802.1p (802.1D-2004) UP value by the access point.
- D. The DSCP value is mapped to the DSCP value in the encapsulating IP header by the layer-3 switch.

Answer: B

Explanation:

In a centralized data forwarding architecture, Access Points (APs) tunnel all client traffic to the WLAN controller. The controller then processes this traffic and forwards it to the appropriate destination. During this process, the controller maps the Differentiated Services Code Point (DSCP) values from the client's IP packets to the appropriate IEEE 802.1Q priority tag values. This mapping ensures that Quality of Service (QoS) is maintained across the wired network, allowing switches and routers to prioritize traffic based on these tags. Cisco Reference: CWDP-305 Official Study and Reference Guide, Chapter on Infrastructure Design

NEW QUESTION # 29

As you plan a WLAN upgrade, you have assessed the network requirements and data signatures of your applications. One of the popular applications used on your network requires high bandwidth and low to medium Wi-Fi loss, but can tolerate moderate latency and jitter.

What application matches this description?

- A. Voice
- B. Skype chat
- C. Email
- D. Video-on-demand

Answer: C

NEW QUESTION # 30

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