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RUCKUS RCWA Exam Syllabus Topics:

Topic	Details
Topic 1	<ul style="list-style-type: none"> • RUCKUS Technologies, products & solutions: This section of the exam measures skills of the Certified Logistics Technician and covers RUCKUS-specific technologies, such as proprietary Wi-Fi features, Bonjour Gateway, and automated cell sizing capabilities. It focuses on the proper selection and sizing of RUCKUS controllers (SmartZone, Unleashed, ROne • Cloud) and Access Points (APs) based on platform limitations. Furthermore, it includes knowledge of advanced features like clustering, geo-redundancy, initial IoT integration, and the necessary processes for product licensing and using RUCKUS support tools and documentation.

Topic 2	<ul style="list-style-type: none"> • Foundational Wi-Fi technologies, standards & concepts: This section of the exam measures skills of the Certified Logistics Associate and covers the foundational principles of Wi-Fi, including radio frequency (RF) concepts, global 802.11 standards, and frequency channelization up to the latest standards (a <ul style="list-style-type: none"> • b • g • n • ac • ax • BE). It assesses knowledge of antenna characteristics, the difference between Mesh and point-to-point connections, and the basics of authentication methods, including certificate usage and the high-level steps of client roaming across access points.
Topic 3	<ul style="list-style-type: none"> • Designing & Planning a RUCKUS Wi-Fi Solution: This section of the exam measures skills of the Certified Logistics Technician and focuses heavily on the detailed process of planning a RUCKUS Wi-Fi network, including gathering design requirements using site survey tools like Ekahau. It assesses the ability to define strategies for traffic management, load balancing, and network segmentation using technologies like VXLAN. This area also covers selecting the right products for specific use cases, and designing comprehensive security policies that involve RADIUS, PKI, and Role-Based Access Control (RBAC), alongside detailed AP management planning like discovery methods and PoE budgeting.
Topic 4	<ul style="list-style-type: none"> • Wi-Fi Solution Enhancement through Tuning and Optimization: This section of the exam measures skills of the Certified Logistics Technician and focuses on advanced techniques for fine-tuning and optimizing Wi-Fi network performance after deployment. It includes balancing load and frequency bands, implementing airtime fairness and decongestion methods, and using advanced 802.11 roaming amendments (k, r, v) to improve client mobility. The section also covers optimizing radio settings, such as Client Admission Control (CAC), and managing channel selection and power optimization, including the use of DFS and RUCKUS AI features.
Topic 5	<ul style="list-style-type: none"> • Wi-Fi Solution Troubleshooting & Repair: This section of the exam measures skills of the Certified Logistics Associate and covers the essential processes for data gathering, analysis, and troubleshooting common issues, such as client connectivity failures and problems with AP-to-controller communication. It requires using diagnostic tools, including built-in speed tests and packet <ul style="list-style-type: none"> • frame capture, as well as understanding how to use logs and integrate with communication protocols like AAA, Syslog, and SNMP for effective diagnosis and repair.

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RUCKUS Certified Wi-Fi Associate Exam Sample Questions (Q33-Q38):

NEW QUESTION # 33

Which RUCKUS feature protects service quality by prioritizing real-time voice and video traffic over background data flows?

- A. SmartCast
- B. Band Steering
- C. BeamFlex+
- D. ChannelFly

Answer: A

Explanation:

SmartCast is RUCKUS's advanced Quality of Service (QoS) engine that prioritizes latency-sensitive traffic such as voice, video, and real-time collaboration apps.

According to RUCKUS One Online Help - SmartCast Overview and RUCKUS Analytics 3.5 User Guide - QoS Monitoring, SmartCast identifies traffic types using Deep Packet Inspection (DPI) and applies 802.1p/DSCP markings to preserve QoS across wired and wireless segments.

It dynamically manages airtime scheduling and retransmissions to maintain low delay and jitter. Other features like BeamFlex+ (antenna optimization) or ChannelFly (channel selection) do not handle traffic prioritization.

References:

RUCKUS One Online Help - SmartCast QoS and Traffic Prioritization

RUCKUS Analytics 3.5 User Guide - Application Performance Metrics

RUCKUS AI Documentation - SmartCast and Traffic Management Architecture

NEW QUESTION # 34

Which RUCKUS feature in RUCKUS Analytics automatically identifies the root cause of service-impacting events using correlation analysis?

- A. Event Timeline Viewer
- B. SmartCast
- **C. AI Anomaly Detection**
- D. Health Summary Dashboard

Answer: C

Explanation:

AI Anomaly Detection in RUCKUS Analytics uses machine learning to detect, classify, and correlate service-impacting events such as authentication failures, RF interference, and backhaul latency.

According to RUCKUS Analytics 3.5 User Guide - AI-Driven Insights, this feature correlates telemetry across APs, clients, and switches to isolate root causes automatically. It identifies deviations from normal baselines and links related issues under unified incident reports.

RUCKUS One Online Help - Anomaly Detection and Correlation Engine confirms this system dramatically reduces troubleshooting time by surfacing the exact source of network degradation.

Other tools like Event Timeline Viewer and Health Dashboard visualize events but do not perform automatic RCA (Root Cause Analysis).

References:

RUCKUS Analytics 3.5 User Guide - AI-Driven Incident Correlation

RUCKUS One Online Help - Anomaly Detection and Intelligent Correlation

RUCKUS AI Documentation - Predictive Root Cause Analysis Engine

NEW QUESTION # 35

A user reports intermittent connectivity on a 5 GHz SSID. Which RUCKUS diagnostic metric should be checked first to identify RF interference?

- A. Client retry percentage
- **B. Noise floor level**
- C. RSSI
- D. Retransmission count

Answer: B

Explanation:

The Noise Floor Level represents the background RF interference in dBm, which directly affects the Signal-to-Noise Ratio (SNR) and overall connection stability.

As stated in RUCKUS One Online Help - RF Diagnostics, an elevated noise floor (e.g., higher than -85 dBm) can indicate interference from devices such as wireless cameras or radar systems.

RUCKUS Analytics 3.5 User Guide - RF Metrics Dashboard highlights that tracking the noise floor is essential for differentiating between weak coverage and interference-based issues.

Retransmissions and retries are symptoms, while the noise floor identifies the root cause.

References:

RUCKUS One Online Help - RF Troubleshooting and Noise Floor Metrics

NEW QUESTION # 36

Review the output. Which two states can be determined from this output? (Choose two.) rkscli: get scg

```
----- SCG Information -----  
SCG Service is enabled.  
AP is managed by SCG.  
State: RUN_STATE  
Server List: 10.1.1.245,47.187.140.218  
SSH tunnel connected to 10.1.1.245  
Failover List: Not Found  
Failover Max Retry: 2  
DHCP Opt43 Code: 6  
Server List from DHCP (Opt43/Opt52): Not found  
SCG default URL: RuckusController  
SCG config heartbeat intervals: 30 | 30  
SCG gwloss|serverloss timeouts: 1800 | 86400  
Controller Cert Validation: disable  
OK
```

- A. Controller IP was set by DNS.
- B. AP data traffic is tunneled.
- C. Controller is behind a control NAT IP.
- D. AP is waiting join state approval.
- E. AP is accepted and managed by the controller.

Answer: C,E

Explanation:

The SmartZone CLI command get scg provides detailed information about an AP's connection to its controller.

From the output provided:

The "State: RUN_STATE" line confirms the AP is fully connected, accepted, and managed by the controller (E). If the AP were pending, it would display "JOIN_STATE" or "CFG_STATE." The presence of two controller IPs and an SSH tunnel connection to 10.1.1.245 indicates a control-plane tunnel established via NAT traversal, meaning the controller is behind a control NAT IP (D). The "Controller Cert Validation: disable" line shows certificate validation is off, but it doesn't affect operational state. The Server List confirms static IP discovery rather than DNS-based assignment.

Thus, the AP is active and managed by the controller, with communication handled through an SSH-based control tunnel.

Reference:

RUCKUS One Online Help - AP Registration and Connection States (RUN_STATE) RUCKUS Analytics 3.5 User Guide - AP Connectivity and Tunnel Status Monitoring RUCKUS AI Documentation - SmartZone AP Join States and Control NAT Behavior

NEW QUESTION # 37

Which SmartZone tool provides packet-level visibility for troubleshooting AP-to-controller communication failures?

- A. Cluster Diagnostics
- B. SmartZone Trace Tool
- C. AP Debug Mode
- D. Network Health Dashboard

Answer: B

Explanation:

The SmartZone Trace Tool enables administrators to capture packet-level traces from selected APs, clients, or controller interfaces to troubleshoot communication issues.

As defined in RUCKUS One Online Help - Trace and Packet Capture, this tool is used to analyze AP-to-controller join problems, authentication failures, or network latency conditions. Administrators specify the client MAC and associated AP(s) to collect targeted trace logs.

RUCKUS Analytics 3.5 User Guide - Client Troubleshooting Section further notes that trace outputs can be downloaded as .pcap

