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How the Cisco 300-445 Exam Helps You Ensure Secure and Reliable Networks

The Cisco 300-445 exam is a critical part of the CCNP Enterprise certification track. Unlike exams that focus solely on configuration, the Designing and Implementing Enterprise Network Assurance (ENNA) exam emphasizes network assurance, ensuring enterprise networks are efficient, secure, and reliable. It tests candidates on their ability to monitor, analyze, and optimize network performance, leveraging modern tools, automation, and analytics.

The Cisco 300-445 (ENNA) exam covers network telemetry, streaming analytics, proactive troubleshooting, and assurance frameworks, all of which are essential for enterprise networks where uptime, performance, and security are crucial. It is designed for network engineers and administrators responsible for maintaining operational excellence in complex environments.

Key Ways the Cisco 300-445 Exam Prepares You for Network Assurance

The Cisco 300-445 exam focuses on equipping professionals with the skills and knowledge required to maintain network stability and security. The Cisco 300-445 (ENNA) exam ensures candidates understand not just theory, but practical application in real-world network operations. Below are the key areas that contribute to secure and reliable networks.

1. Network Telemetry and Data Collection

One of the foundations of the 300-445 exam is understanding network telemetry. Candidates learn how to gather data from devices using tools such as Cisco DNA Center, SNMP, NetFlow, and Syslog. This telemetry provides real-time visibility into network performance, traffic patterns, and device health. By effectively collecting and analyzing this data, engineers can identify potential issues before they escalate, which is critical for maintaining reliable networks.

2. Proactive Monitoring and Anomaly Detection

The 300-445 (ENNA) exam emphasizes proactive monitoring rather than reactive troubleshooting. Professionals are tested on their ability to detect anomalies, performance degradation, and configuration errors using automation and analytics. This ensures network teams can intervene before user experience is impacted, reducing downtime and maintaining service reliability.

3. Security Assurance

Maintaining network security is a major focus. Candidates are evaluated on how they monitor security policies, enforce compliance, and detect threats within enterprise networks. By

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Generally speaking, you can achieve your basic goal within a week with our Designing Cisco Wireless Networks 300-110 study guide. Besides, for new updates happened in this line, our experts continuously bring out new ideas in this Cisco 300-110 Exam for you. The new supplemental updates will be sent to your mailbox if there is and be free.

Cisco 300-110 Exam Syllabus Topics:

Section	Objectives
Topic 1: Troubleshooting and Validation	- Wireless performance troubleshooting methodologies - Validation tools and post-deployment testing
Topic 2: Wireless Security Design	- Guest access and segmentation strategies - WPA2/WPA3 enterprise security design - 802.1X authentication and RADIUS integration
Topic 3: RF Fundamentals and Design Principles	- RF behavior and propagation - Channel planning and interference mitigation - Antenna types and placement strategies
Topic 4: Cisco Wireless Architecture	- Lightweight Access Point (LAP) deployment models - Controller-based architecture (WLC) - Mobility groups and roaming design

- Topic 5: High Availability and Performance Optimization
- Redundancy design for controllers and APs
 - Load balancing and RF optimization
- Topic 6: Wireless Site Survey and Requirements Analysis
- Coverage and capacity planning
 - Physical environment assessment and constraints
 - Business and technical requirements gathering

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Cisco Designing Cisco Wireless Networks Sample Questions (Q104-Q109):

NEW QUESTION # 104

A customer has two Cisco WLCs configured in a SSO cluster. The wireless network supports a large warehouse. The customer purchases new iPads to replace legacy scanners. Both devices connect to a single SSID named Scanning by using WPA2 Personal. The customer wants to use a standards-based method for fast roaming on the new iPads. Which approach meets the scanner requirement and still supports the legacy scanners?

- **A. Enable FT PSK and set Fast Transition to Adaptive for the Scanning SSID.**
- B. Enable FT 802.1X and set Fast Transition to Adaptive for the Scanning SSID.
- C. Enable optimized roaming globally and enable FT 802.1X on the Scanning SSID.
- D. Enable optimized roaming globally and enable FT PSK on the Scanning SSID.

Answer: A

Explanation:

The design challenge is enabling IEEE 802.11r Fast BSS Transition for the new iPads (the standards-based fast roaming method) while maintaining backward compatibility for legacy RF scanners that may not support 802.11r. The SSID uses WPA2 Personal (PSK), not 802.1X enterprise authentication - therefore the correct Fast Transition variant is FT PSK (pre-shared key), not FT 802.1X (Options A and B). The critical configuration parameter is setting Fast Transition to Adaptive mode rather than mandatory. Adaptive mode is a Cisco feature that allows the AP and SSID to support both 802.11r-capable clients (which will use FT PSK for fast roaming) and non-802.11r legacy clients (which will use the standard pre-FT roaming process). In Adaptive mode, legacy scanners that cannot negotiate 802.11r during association will fall back transparently to standard roaming, while the new iPads leverage FT PSK for minimal-interruption handoffs. If Fast Transition is set to mandatory, legacy clients that do not support 802.11r will fail to associate entirely. Option C uses optimized roaming globally, which is a different mechanism and does not address the iPads' specific need for a standards-based fast roaming solution. Reference: WLSG Study Guide - 802.11r Fast BSS Transition, FT PSK Configuration, Adaptive Fast Transition for Mixed Client Environments.

NEW QUESTION # 105

A consulting engineer for a copper mine is trying to extend the network connectivity of autonomous trucks via Cisco IW3702 APs. The WGB design requirements include: latency-sensitive application (truck slows at 10 sec, stops at 20 sec of connection loss), aggressive scanning and roaming, enterprise-grade security without certificates on each AP, multiple clients in different VLANs on the WGB, and channel scan parameters restricted to only channels in the truck path. Which design approach meets the requirements?

- A. WGB in mobile station mode with EAP-TLS connected to a dot1q-capable switch
- **B. WGB in mobile station mode with EAP Fast connected to a dot1q-capable switch**
- C. WGB in static mode with EAP-TLS connected to a dot1q-capable switch
- D. WGB in static mode with EAP Fast connected to a dot1q-capable switch

Answer: B

Explanation:

This WGB (Workgroup Bridge) design scenario requires satisfying multiple simultaneous constraints. EAP-FAST (Flexible Authentication via Secure Tunneling) is the correct authentication protocol because it provides enterprise-grade 802.1X security using protected access credentials (PAC) without requiring a certificate to be installed on each AP or WGB device - directly satisfying the enterprise-grade security without certificates requirement. EAP-TLS (Options B and D) requires client certificates on every authenticating device, which is explicitly excluded. Mobile station mode is required rather than static mode (Options C and D) because mobile station mode enables the WGB to aggressively scan and roam to optimal mesh neighbors dynamically, evaluating neighbor signal quality and switching to better RAPs/MAPs as the truck moves along its path. Static mode fixes the WGB to a specific channel or AP, preventing the aggressive scanning and roaming required for the latency-sensitive application. The dot1q-capable switch connection supports multiple clients in different VLANs via 802.1Q VLAN tagging between the WGB and the truck's local network switch. Reference: WLSG Study Guide - Workgroup Bridge Design, EAP-FAST Authentication, Mobile vs. Static WGB Mode, Industrial Wireless Design.

NEW QUESTION # 106

An engineer is conducting a Layer 2 site survey. Which type of client must the engineer match to the survey?

- A. phone client
- B. normal client
- C. worst client available
- D. best client available

Answer: C

Explanation:

When conducting a Layer 2 site survey, it is recommended to match the survey to the worst client available. This ensures that the wireless network is designed to provide adequate coverage and performance even for clients with the poorest RF capabilities, thereby providing a consistent user experience for all devices. The worst client typically has fewer antennas, lower receiver sensitivity, and less sophisticated chipsets. By designing to its limitations, the engineer guarantees that every device in the environment meets the minimum performance threshold.

NEW QUESTION # 107

A wireless network consists of two IOS XE controllers installed in a data center, 9100 series APs, and a corporate and a guest WLAN. The customer must have a high availability pair of two Cisco WLCs for the client SSO. Which two design approaches must the engineer take to meet the requirement? (Choose two.)

- A. The controllers must have the same number of licenses.
- B. Each WLC must have a unique redundancy management IP address.
- C. Both WLCs must have the same redundancy management IP address.
- D. Both WLCs must have the same service port IP address.
- E. The controllers must run the same operating system version.

Answer: B,E

Explanation:

Configuring a high availability SSO pair on Cisco Catalyst 9800 IOS XE WLCs has specific technical prerequisites that must be satisfied for the SSO relationship to form and function correctly. The two critical requirements are: each WLC must have a unique Redundancy Management Interface (RMI) IP address (Option B), and both WLCs must run identical IOS XE software versions (Option D). The Redundancy Management Interface is the dedicated in-band control channel over which the active and standby WLCs exchange state synchronization information, keepalive messages, and configuration updates. Each controller requires its own unique RMI IP address within the same subnet -- the active uses one address and the standby uses another.

NEW QUESTION # 108

What happens to an AP when a flex profile name is changed in a site tag?

- A. It automatically updates its firmware without causing any downtime.
- B. It switches to a backup controller without any interruption.
- C. It is forced to rejoin the controller by disconnecting the DTLS session.

- D. It temporarily disables all the currently broadcasting SSIDs.

Answer: C

Explanation:

On the Cisco Catalyst 9800 IOS XE WLC platform, the tag-based configuration model uses site tags to associate APs with specific profiles including a flex profile and an AP join profile. The site tag is a fundamental binding element -- when any component of a site tag is modified, including renaming the flex profile associated with that tag, the WLC treats this as a material configuration change requiring the AP to re-evaluate its operational parameters. Specifically, the AP must disconnect its existing DTLS (Datagram Transport Layer Security) control plane tunnel to the WLC and re-establish it. This DTLS session disconnect and rejoin cycle is equivalent to a full AP rejoin: CAPWAP discovery, DTLS handshake, join request, configuration download, and image verification. Client service is interrupted on the affected AP during this process.

NEW QUESTION # 109

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