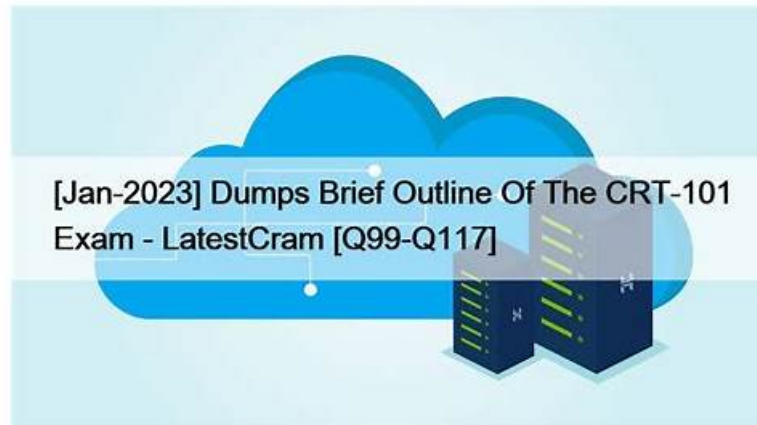


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Cisco 350-101 Exam Syllabus Topics:

Topic	Details
Topic 1	<ul style="list-style-type: none">802.11 Technology Fundamentals: Covers Wi-Fi governance bodies, regional channel and power regulations, and the core technical principles of 802.11 including modulation, channel width, MIMO, topologies, and frame types.
Topic 2	<ul style="list-style-type: none">Client Connectivity Configuration: Covers configuring authentication both on and off the controller, setting up client connectivity across different operating systems, roaming behavior, and wireless guest network configuration.
Topic 3	<ul style="list-style-type: none">Wireless Monitoring and Management: Covers network maintenance tasks, client monitoring configuration, troubleshooting client connectivity issues, and integrating with external devices and platforms.

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Cisco Implementing and Operating Cisco Wireless Core Technologies Sample Questions (Q58-Q63):

NEW QUESTION # 58

What is the maximum transmit power level allowed for 2.4 GHz in the United States?

- A. 23 dBm
- B. 30 dBm

- C. 20 dBm
- D. 36 dBm

Answer: B

Explanation:

The correct answer is 30 dBm, which equals 1 watt of conducted transmit power. In the United States, the 2.4-GHz ISM band used by 802.11b/g/n/ax Wi-Fi falls under FCC Part 15.247. The FCC rule permits digital modulation systems in the 2400-2483.5 MHz band and specifies that the maximum conducted output power is 1 Watt. Converting watts to dBm uses the formula $\text{dBm} = 10 \log_{10}(\text{mW})$: 1 watt equals 1000 mW, and $10 \log_{10}(1000) = 30 \text{ dBm}$.

This is also consistent with Cisco wireless configuration behavior, where Cisco controller Radio Resource Management transmit-power limits use dBm values and support a configurable transmit-power range up to 30 dBm. The key distinction is that 30 dBm is conducted transmit power, while 36 dBm commonly represents an EIRP value when antenna gain is included, such as 30 dBm transmitter output plus 6 dBi antenna gain. Cisco RF fundamentals emphasize that antenna gain affects coverage and radiated energy, so transmit power and EIRP must not be confused. Reference topic: RF Fundamentals - dBm, mW conversion, regulatory domains, transmit power, antenna gain, and EIRP.

NEW QUESTION # 59

Refer to the exhibit. A retail business is deploying guest wireless across its remote branch locations. Each branch uses FlexConnect APs in local switching mode, and the central wireless LAN controller is configured with an ACL named CWA_REDIRECT. Cisco ISE is configured to return this ACL during the authentication process for central web authentication (CWA). However, when clients attempt to connect to the guest wireless LAN, they are added to the exclusion list. Which configuration step resolves the connectivity issue?

- A. Include the ACL CWA_REDIRECT in the AP-Join profile.
- B. Change the ACL to include the ISE IP address.
- C. Add the ACL CWA_REDIRECT to the policy profile.
- **D. Map the ACL CWA_REDIRECT to the flex profile as a policy ACL.**

Answer: D

Explanation:

The failure is caused by the redirect ACL not being available where enforcement occurs. In FlexConnect local switching, client data-plane handling occurs on the AP, so the CWA redirect ACL cannot exist only as a controller ACL or only as a policy-profile reference. Cisco states that the redirect ACL is a punt ACL and that, for FlexConnect local switching, the ACL must be predefined on the AP because the AAA server returns only the ACL name, not the ACL definition.

The exhibit shows Redirect ACL failure and EXCLUDE_PUNT_ACL_FAIL, which aligns with an AP-side punt/redirect ACL application failure. Cisco's Catalyst 9800 CWA configuration specifically requires the redirect ACL definition to be sent through the FlexConnect profile; in the GUI this is done under the Flex Profile Policy ACL tab by adding the ACL, enabling central web authentication, and applying the change. The equivalent CLI is `wireless profile flex < profile > followed by acl-policy < acl-name > and central-webauth`, after which the AP uses the ACL for client redirection. AP-Join profiles do not carry client redirect ACL policy, and adding the ACL only to the policy profile does not push it to FlexConnect APs for local switching.

Reference topics: FlexConnect local switching, CWA redirect ACLs, Catalyst 9800 policy ACLs, and ISE URL-redirect authorization.

NEW QUESTION # 60

What is the primary modulation technology used by 802.11ax in wireless communications?

- A. Quadrature Amplitude Modulation OFDMA
- **B. orthogonal frequency-division multiple access**
- C. direct sequence spread spectrum
- D. frequency hopping spread spectrum

Answer: B

Explanation:

The correct answer is orthogonal frequency-division multiple access, or OFDMA. Cisco identifies 802.11ax, also known as Wi-Fi 6, as the generation that introduces OFDMA-based operation to improve efficiency, especially in dense wireless environments. Cisco's Catalyst 9800 documentation states that OFDMA support for 802.11ax APs improves performance in dense deployments, enables


simultaneous data transmissions with OFDMA and MU-MIMO, and supports uplink and downlink multi-user operations across multiple client devices.

Strictly, OFDMA is a multi-user channel-access and subcarrier allocation method rather than a pure constellation modulation scheme. However, within 802.11ax fundamentals and this answer set, OFDMA is the defining PHY/MAC technology. It divides a 20, 40, 80, or 160 MHz channel into smaller resource units so multiple clients can transmit or receive in the same transmission opportunity. Cisco further explains that OFDMA improves wireless performance by using independently modulated subcarriers within frequencies, allowing simultaneous transmissions to and from multiple clients. FHSS and DSSS belong to older 802.11 PHY generations. QAM is used for symbol modulation, but "Quadrature Amplitude Modulation OFDMA" is not the primary 802.11ax technology name. Reference topics:802.11ax/Wi-Fi 6, OFDMA, resource units, uplink/downlink multi-user operation, and high-efficiency WLAN design.

NEW QUESTION # 61

Refer to the exhibit.

```
config t
wlan guest-network 20 guest-network
no security ft adaptive
no security wpa
no security wpa wpa2
no security wpa wpa2 ciphers aes
no security wpa akm dot1x
security web-auth
security web-auth authentication-list list1
security web-auth parameter-map webauthpar1
no shutdown
exit
```



An engineer must configure wireless guest networking for a deployment at site A, which requires support for guest VLAN assignment and assignment for wlan guest-network 20. The controller will provide network segregation and restrict access to internal resources. Based on the configuration commands, which action meets the requirements?

- A. Assign a policy tag to map the to WLAN and assign a physical interface for isolation.
- **B. Create a policy profile for the guest VLAN and a policy tag to map the WLAN to the policy profile.**
- C. Implement the Spanning Tree Protocol and assign an AP group name.
- D. Establish a mesh bridge connection for the guest VLAN and assign logical interface for isolation.

Answer: B

Explanation:

The exhibit creates WLAN profile guest-network with WLAN ID 20 and enables web authentication, but it does not yet define the client VLAN or bind the WLAN to a deployable policy. On Catalyst 9800 controllers, the WLAN profile defines SSID and wireless/security characteristics, while the policy profile defines client-facing network policy, including VLAN assignment, AAA, ACLs, and switching behavior. Cisco's web authentication configuration guide states that the policy profile specifies client VLAN, AAA, ACLs, timeout settings, and related policy, and the VLAN is assigned under the policy profile.

The second required object is the policy tag, because a policy tag maps the WLAN profile to the policy profile.

Cisco also notes that the default policy tag automatically maps only WLAN IDs 1 through 16; WLAN ID 17 or higher cannot use that default mapping. Since this WLAN is ID 20, a custom policy tag mapping is required.

Mesh bridging, STP, AP group naming, or physical-interface isolation do not complete the Catalyst 9800 WLAN-to-VLAN policy model. Reference topics: Wireless Network Implementation - Catalyst 9800 configuration model, WLAN profiles, policy profiles, policy tags, guest VLAN assignment, and web authentication.

NEW QUESTION # 62

What is a benefit of network adaptability in terms of improved operational outcomes when using AI-RRM in Cisco Catalyst Center?

- A. provisioning of static device addresses
- **B. reduction of co-channel interference**
- C. categorization of users by authentication type
- D. transmission of regular software update schedules

Answer: B

Explanation:

The correct answer is reduction of co-channel interference. AI-RRM in Cisco Catalyst Center is designed for RF optimization, not IP addressing, software scheduling, or user identity classification. Cisco describes AI-enhanced RRM as applying artificial intelligence and machine learning to optimize RF environments and automate/adapt RF parameter tuning for Cisco wireless networks. This is directly tied to operational RF outcomes such as improved channel planning, transmit power behavior, channel width decisions, and better spectrum utilization.

Co-channel interference occurs when multiple AP radios operate on the same channel within hearing range, forcing devices to share airtime and increasing contention. AI-RRM uses telemetry, analytics, and learned RF behavior to recommend or apply more optimal RF configurations. Cisco specifically states that AI-enhanced RRM optimization can produce improvements such as up to a 40 percent reduction in co-channel interference and SNR gains for wireless clients. Cisco's AI-RRM deployment guidance also identifies AP radio distribution and utilization analysis as critical for minimizing co-channel interference and optimizing wireless performance. Therefore, option B is the only operational outcome aligned with AI-RRM's purpose. Reference topic:

Automation and AI - Cisco Catalyst Center AI-RRM, RF analytics, RRM automation, channel optimization, and wireless AIOps.

NEW QUESTION # 63

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