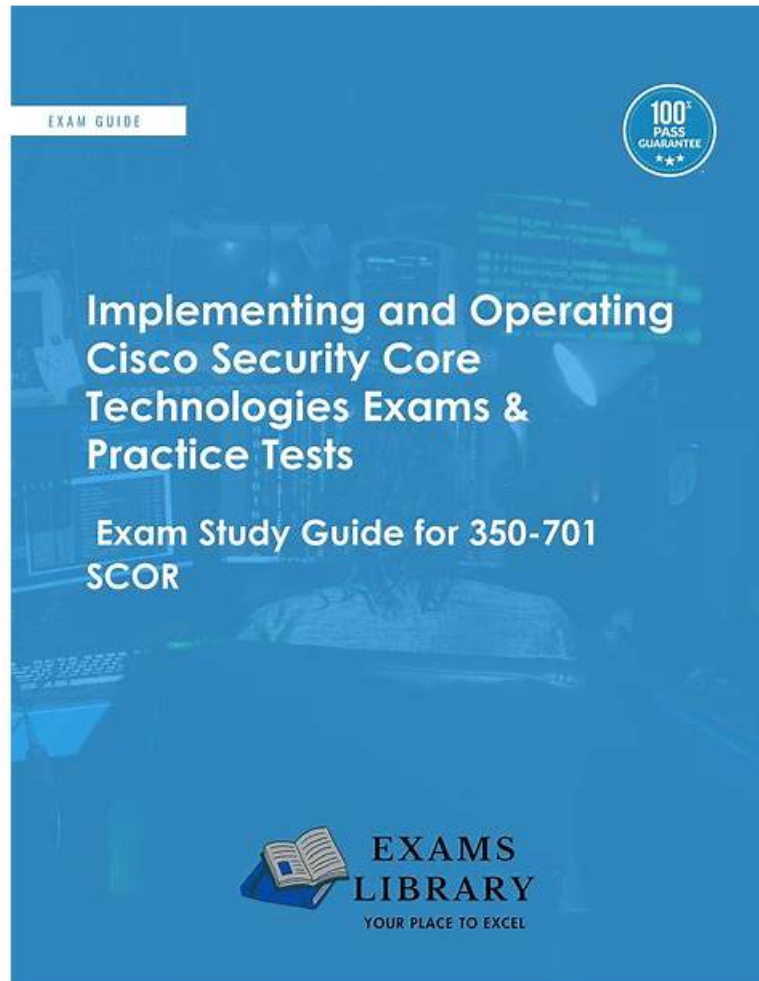


350-101 Exam Questions - Implementing and Operating Cisco Wireless Core Technologies Exam Tests & 350-101 Test Guide



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Cisco 350-101 Exam Syllabus Topics:

Topic	Details
Topic 1	<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 2	<ul style="list-style-type: none">Wireless Network Operation: Covers initial configuration of Cisco wireless infrastructure, AP discovery and join processes, AP modes, WLAN setup, and client management policies across platforms like Catalyst Center, ISE, and Spaces.
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.

- RF Fundamentals: Covers the behavior of radio waves, how RF signals are measured and interpreted, the mathematics behind RF calculations, and the characteristics of Wi-Fi antennas.

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Cisco Implementing and Operating Cisco Wireless Core Technologies Sample Questions (Q103-Q108):

NEW QUESTION # 103

```

configure terminal
hostname 9800-L
ip domain name yourdomain.com
crypto key generate rsa
Choose the size of the key modulus in the range of 512 to 4096 for your
  General Purpose Keys. Choosing a key modulus greater than 512 may take
  a few minutes.

How many bits in the modulus [1024]: 2048
% Generating 2048 bit RSA keys, keys will be non-exportable...
[OK] (elapsed time was 0 seconds)

aaa new-model
aaa authentication login default local
username admin priv 15 password YourPassword

```

Refer to the exhibit. An engineer is preparing a Cisco 9800-L WLC for deployment in a sensitive area. Only encrypted remote management via SSH is allowed, and all other VTY access methods must be disabled. The 9800-L WLC will be part of a larger deployment, and an external audit will check for any unencrypted management protocols. According to the requirements, only SSH is allowed for remote CLI sessions. Which set of commands must be executed to complete the Cisco IOS XE CLI configuration on the WLC?

- A. line vty 0 97no transport input telnetlogin authentication default
- B. line vty 0 97transport sshlogin authentication default
- C. line vty disable 0 97transport preferred sshlogin authentication defaultexit
- D. line vty 0 97transport input sshlogin authentication defaultexit

Answer: D

Explanation:

The correct configuration is option C because Cisco IOS XE restricts inbound protocols on VTY lines with the transport input command. Cisco's Catalyst 9800 best-practice guidance states that administrators should confirm SSH is enabled and Telnet is disabled for better controller security, and that the Catalyst 9800 follows standard Cisco IOS XE behavior for enabling or disabling Telnet and SSH. Cisco IOS XE SSH documentation explicitly shows line vty line_number [ending_line_number] followed by transport input ssh, and explains that this prevents non-SSH Telnet connections, limiting access to SSH only.

The existing exhibit already includes the SSH prerequisites: hostname, domain name, RSA key generation, AAA new-model, a

default login method using local credentials, and a local privileged user. The missing VTY configuration must therefore apply that default AAA login list to the VTY lines with login authentication default and restrict inbound transport to SSH. Cisco AAA documentation confirms that login authentication default applies the configured default authentication list to the line or set of lines. Option A is incomplete and does not explicitly permit SSH. Option B uses invalid syntax. Option D omits the required input keyword. Reference topics: Catalyst 9800 secure management, VTY access control, SSH, Telnet hardening, AAA login authentication, and IOS XE device administration.

NEW QUESTION # 104

Refer to the exhibit.

```
configure terminal
wlan BranchWLAN 1 BranchSSID
security wpa wpa2
security wpa wpa2 ciphers aes
security wpa psk set-key ascii 0 MySecurePassphrase
no security wpa akm dot1x
client dhcp-proxy enable
no shutdown
end
```



A WLC is deployed at a branch location to facilitate secure client connectivity. A network engineer configures one WLAN using WPA2 Personal passphrase and activates ASCII format key to align with company security policies. Which configuration enables client authentication for this WLAN?

- A. no security wpa akm dot1x
- B. security wpa wpa2 ciphers aes
- C. security wpa akm psk set-key ascii 0
- D. client dhcp-proxy enable

Answer: C

Explanation:

WPA2-Personal authenticates clients with a preshared key, not with 802.1X. Cisco documents WPA/WPA2 as supporting multiple authentication methods, including 802.1X and PSK, and specifically states that when PSK is selected, a preshared key or passphrase must be configured. The configuration element that enables client authentication in this scenario is the PSK ASCII key function represented by option D. On Catalyst

9800 IOS XE, the PSK method is enabled with PSK authentication key management, and the passphrase is defined with security wpa psk set-key {ascii | hex} {0 | 8} password; Cisco's example is security wpa psk set- key ascii 0 test.

Option A disables 802.1X AKM, which is appropriate for Personal mode, but it does not by itself authenticate clients. Option B controls DHCP proxy behavior and has no role in WPA authentication. Option C enables AES for WPA2 encryption, which protects traffic confidentiality but does not supply the authentication secret.

Reference topics: Client Connectivity Configuration - WPA2-Personal, PSK authentication, AKM selection, AES encryption, and Catalyst 9800 WLAN security configuration.

NEW QUESTION # 105

Which function does FRA use to optimize client experience and network coverage?

- A. Implementation by local data path control
- B. Enhances roaming by redirecting the client to move to the appropriate AP
- C. Dynamically adapts the roles of dual-band radios in an AP
- D. Monitoring on the physical interface level in the AP

Answer: B

Explanation:

FRA (Flexible Radio Assignment) is a feature in Cisco wireless networks designed to optimize the client experience and enhance network coverage. FRA functions by managing roaming behavior and ensuring that clients are connected to the most appropriate access point (AP) based on signal quality and other factors. This helps in ensuring a seamless experience when clients move across coverage areas, by actively guiding them to the best AP.

The key functionality of FRA involves redirecting clients to the appropriate AP when they are experiencing suboptimal performance on the current AP, which is typically influenced by factors such as interference or distance. This optimization helps improve both coverage and user experience by making sure clients stay on the most optimal radio connection.

Option A, which refers to monitoring on the physical interface level, is not directly related to FRA but more to basic radio management. Option C, which mentions local data path control, refers to how data paths are managed locally within an AP but does not address the dynamic nature of client roaming. Option D, about dual-band radios, involves how radios are configured but does not directly describe FRA's function.

FRA is vital for dynamically enhancing wireless network performance, particularly in large, dense environments where clients are constantly moving.

NEW QUESTION # 106

A network engineer is integrating Cisco ISE with a wireless controller for 802.1X authentication. The controller is registered with Cisco ISE as a network device. To secure communication, the engineer must configure a shared secret for RADIUS authentication. Which CLI command on the WLC accomplishes this task?

- A. 9800(config-radius-server)# radius enable authentication MySecretKey123
- B. 9800(config-radius-server)# ISE MySecretKey123
- C. 9800(config-radius-server)# radius-server shared-secret MySecretKey123
- D. 9800(config-radius-server)# key 0 MySecretKey123

Answer: D

Explanation:

The correct command is key 0 MySecretKey123 under RADIUS server configuration mode. On a Catalyst 9800 WLC, the RADIUS server is defined with radius server < radius-server-name > , then the server address and ports are configured, and the shared secret is applied with the key < shared-key > command. Cisco's Catalyst 9800 802.1X configuration workflow shows the exact sequence: radius server < radius-server-name > , address ipv4 < radius-server-ip > auth-port 1812 acct-port 1813, and key < shared-key > .

Cisco IOS XE command examples also show Device(config-radius-server)# key 0 cisco, with Cisco describing it as setting the clear-text key for the RADIUS authentication server. The 0 indicates that the key is entered in clear-text form at the CLI; it does not mean "no security." The value must match the shared secret configured for the WLC network device in Cisco ISE, otherwise RADIUS Access-Request messages are rejected or ignored. Options A, B, and C are not valid Catalyst 9800 RADIUS server subcommands.

Reference topic: Client Connectivity Configuration - WPA2/WPA3 Enterprise, 802.1X, Cisco ISE integration, RADIUS server objects, AAA method lists, and shared-secret configuration.

NEW QUESTION # 107

```
[client-orch-sm] [17419]: (note): MAC: 1111.2222.3333 Association received. BSSID 1234.5678.abcd, WLAN Corp-WLAN,
[client-orch-sm] [17419]: (debug): MAC: 1111.2222.3333 Received Dot11 association request.
[client-auth] [17419]: (note): MAC: 1111.2222.3333 L2 Authentication initiated. method DOT1X, Policy VLAN 50, AAA overr
[auth-mgr] [17419]: (info): [1111.2222.3333:capwap_90000005] auth mgr attr add/change notification is received for attr
[radius] [17419]: (info): RADIUS: Received from id 1812/115.192.168.1.11:0, Access-Accept, len 309
[radius] [17419]: (info): RADIUS: Tunnel-Type [64] 6 VLAN [13]
[radius] [17419]: (info): RADIUS: Tunnel-Medium-Type [65] 6 ALL_802 [6]
[radius] [17419]: (info): RADIUS: Tunnel-Private-Group-Id [81] 6 "100"
[radius] [17419]: (info): Valid Response Packet. Free the Identifier
[client-auth] [17419]: (note): MAC: 1111.2222.3333 Authentication Key Exchange Start. Resolved VLAN: 50
```

Refer to the exhibit. A client authenticates via 802.1X against an ISE server that is configured to return a specific VLAN ID (VLAN 100) via an attribute value pair. However, the administrator notices that the client is placed in the wrong VLAN (VLAN 50). What must the administrator implement to resolve the issue?

- A. Configure VLAN 100 on the trunk ports of the WLC.
- B. Configure VLAN 100 as an SVI on the WLC.
- C. Configure AAA VLAN enable on the WLAN.
- D. Configure the policy profile to allow ISE to override the VLAN.

Answer: D

Explanation:

In this scenario, the client is placed in the wrong VLAN (VLAN 50) even though the ISE server is configured to assign VLAN 100. The key part of the issue is that the VLAN assignment returned by ISE is not being applied correctly.

Option A: "Configure the policy profile to allow ISE to override the VLAN." This is the correct answer. The policy profile on the Wireless LAN Controller (WLC) should be configured to allow the ISE server's VLAN assignment to override the locally configured VLAN settings on the WLC. Without this, the WLC might default to its pre-configured VLAN (VLAN 50) instead of the VLAN assigned by ISE (VLAN 100).

Option B: "Configure VLAN 100 as an SVI on the WLC." This option is unnecessary. While an SVI (Switched Virtual Interface) is required to route between VLANs, it is not the cause of the issue here. The problem is that the correct VLAN (VLAN 100) is not being applied to the client, not that the WLC lacks an SVI.

Option C: "Configure VLAN 100 on the trunk ports of the WLC." This option is also not relevant. The issue is not with trunking but with VLAN assignment from ISE. The trunking configuration ensures that VLANs are allowed across ports, but it does not address the client being placed in the wrong VLAN.

Option D: "Configure AAA VLAN enable on the WLAN." This option is not directly related to the issue.

While enabling AAA VLAN can allow for more dynamic VLAN assignments, the core issue is related to overriding the default VLAN setting from ISE, which is handled by configuring the policy profile on the WLC.

Therefore, Option A is the correct solution, as it ensures the WLC will allow the ISE server's VLAN assignment to override the default VLAN on the WLC, resolving the issue of incorrect VLAN assignment.

NEW QUESTION # 108

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