CISCO

300-430

Implementing Cisco Enterprise

Wireless Networks (ENWLSI)

E EXAMKILLER

Cisco

Exam 300-430

Implementing Cisco Enterprise Wireless Networks (300-430 ENWLSI)

Version: 13.0

[Total Questions: 216]

Question No : 1

Which command set configures a Cisco Catalyst 9800 Series Wireless Controller so that the client traffic enters the network at the AP switch port?

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A. config terminal
wireless profile policy [policy name]
local switching
end

B. config terminal
wireless flexconnect policy [policy name]
local switching
end

C. config terminal
wireless flexconnect policy [policy name]
no central switching
end

D. config terminal
wireless profile policy [policy name]
no central switching
end

A. Option A
B. Option B
C. Option C
D. Option D

Answer: D

Question No : 2

Refer to the exhibit.
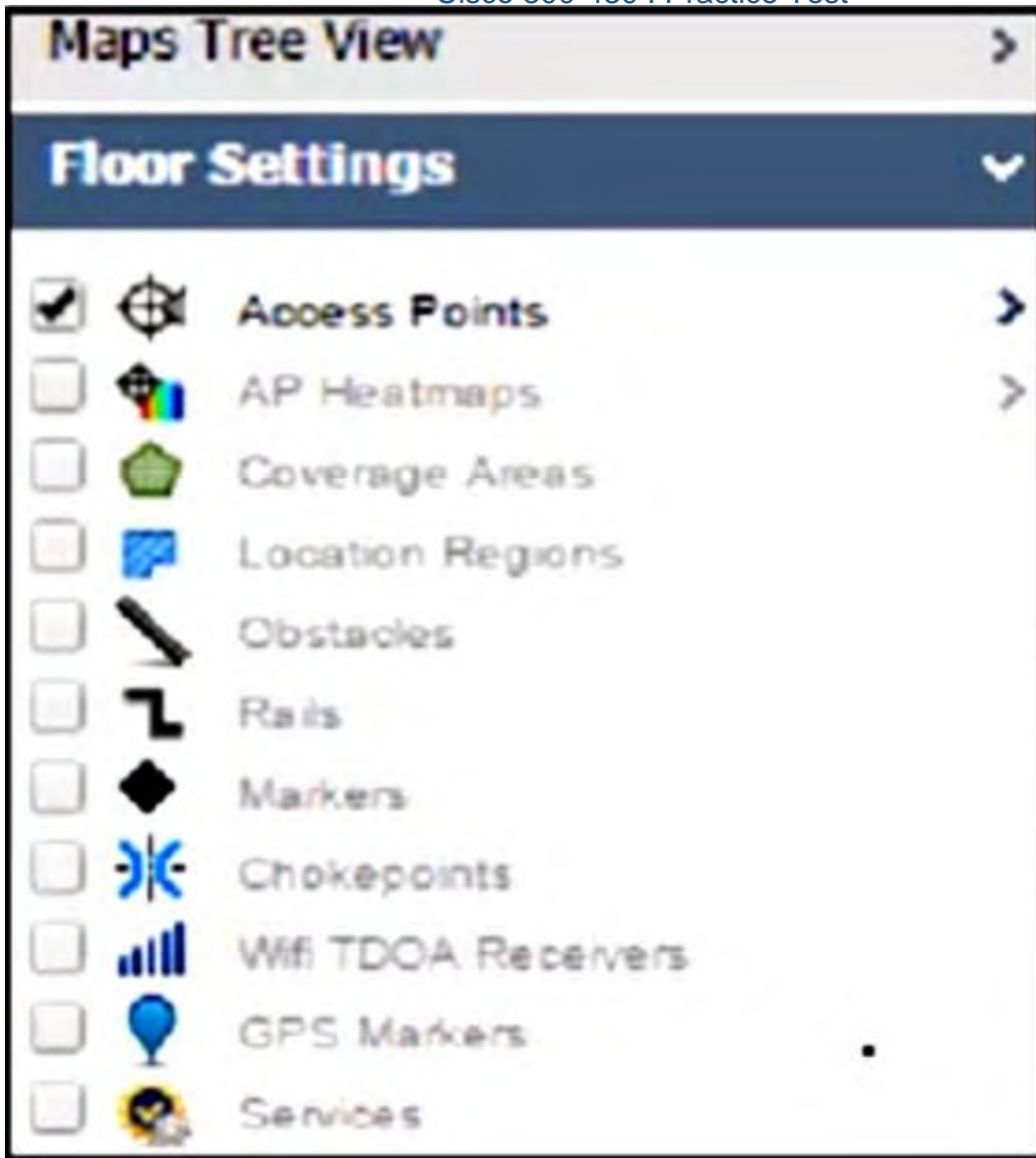
An engineer must provide a position of rogue APs on a floor map using Cisco PI 3.0, but no rogue AP options are showing on the left-hand navigation menu under Maps. What is the reason for this omission?

A. An assurance license is not installed.
B. The controller operational status background task is disabled.
C. The Show Detected Interferers feature under the AP option is disabled.
D. Cisco MSE has not been added to Cisco PI.

Answer: A

Question No : 3

Refer to the exhibit.

An engineer needs to configure location services in an office. The requirement is to use FastLocate and achieve higher locations refresh rates. Which location-based technique should be implemented?

A. probe-based
B. location patterning
C. data packet-based
D. angulation

Answer: C

Question No : 4

You enter the command or a Cisco Catalyst 3850 Series Switch that runs Cisco ISO XE. What does the command do?

A. It defines the user identity or the device identity to be validated by the RADIUS server.
B. It captures information on the length of the authorized session, as well as the bandwidth usage of the client.
C. It defines the RADIUS server used to track which sessions are still active.
D. It defines the level of access of the user or the device.

Answer: D

Question No : 5

What is the Cisco recommended configuration for a Cisco switch port connected to an AP in local mode for optimal voice over WLAN performance with an 8821 wireless phone?

A. switchport encapsulation dot1q
switchport mode trunk
mls qos trust device cisco-phone
B. switchport mode access
mls qos trust device cisco-phone
C. switchport mode access mls qos trust cos
D. switchport mode access mls qos trust dscp

Answer: C
Reference:
https://www.cisco.com/c/dam/en/us/td/docs/voice_ip_comm/cuipph/8821/english/Deployment/8821_wlandg.pdf

Question No : 6

During the EAP process and specifically related to the client authentication session, which encrypted key is sent from the RADIUS server to the access point?

A. WPA key
B. session key
C. encryption key
D. shared-secret key

Answer: B

Question No : 7

A corporation has employees working from their homes. A wireless engineer must connect 1810 OEAP at remote teleworker locations. All configuration has been completed on the controller side, but the network readiness is pending. Which two configurations must be performed on the firewall to allow the AP to join the controller? (Choose two.)

A. Block UDP ports 1812 and 1813 on the firewall.

B. Enable NAT Address on the 5520 with an Internet-routable IP address.

C. Configure a static IP on the OEAP 1810.

D. Allow UDP ports 5246 and UDP port 5247 on the firewall.

E. Allow UDP ports 12222 and 12223 on the firewall.

Answer: B,D

Reference: https://www.cisco.com/c/en/us/td/docs/wireless/controller/technotes/8-3/b_Cisco_OfficeExtend_Access_Point_.pdf

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Question No : 8

Refer to the exhibit.

An ACL is configured to restrict access for BYOD clients. The ACL must redirect devices to the guest portal. To which two devices on the local network must the ACL allow access other than the DHCP server? (Choose two.)

A. RADIUS server

B. DNS server

C. Cisco ISE

D. SNMP server

E. WLC

Answer: B,C

Question No : 9

Refer to the exhibit.

General	Security	QoS	Policy-Mapping	Advanced

Maximum Allowed
Clients Per AP Radio   `200`

Clear HotSpot
Configuration   ☐ Enabled

Client user idle
timeout(15-100000)   ☐

Client user idle threshold   `0`   Bytes
(0-10000000)

Radius NAI-Realm   ☐

11ac MU-MIMO   ☑

Off Channel Scanning Defer

Scan Defer Priority   0 1 2 3 4 5 6 7
                           ☐ ☐ ☐ ☐ ☑ ☑ ☑ ☐

Scan Defer Time(msecs)   `100`

FlexConnect

FlexConnect Local
Switching 2   ☐ Enabled

FlexConnect Local Auth 12   Enabled

Learn Client IP Address 5   ☑ Enabled

A customer has implemented Cisco FlexConnect deployments with different WLANs around the globe and is opening a new branch in a different location. The engineer's task is to execute all the wireless configuration and to suggest how to configure the switch ports for new APs. Which configuration must the switching team use on the switch port?

A. trunk mode
B. access mode
C. single VLAN
D. multiple VLAN

Answer: A

Question No : 10

A wireless network has been implemented to enable multicast video to be streamed reliably over the wireless link to the wireless users. After a client reports that the video is unable to stream, the administrator determines that the client is connecting at a data rate of 12 Mbps and is trying to stream to a valid multicast address on the network. Which two actions must

be applied? (Choose two.)

A. Turn off IGMP snooping for all the configured WLANs on the controller.
B. Implement video-stream for the multicast video on the controller.
C. Allow multicast-direct to work correctly and multicast-direct to be enabled globally.
D. Change the WLAN QoS value to Bronze for the WLAN that multicast will be enabled.
E. Allow RTSP to stream the video due to wireless multicast not using acknowledgements.

Answer: B,C

Question No : 11

A network administrator managing a Cisco Catalyst 9800 WLC must place all iOS connected devices to the guest SSID on VLAN 101. The rest of the clients must connect on VLAN 102 distribute load across subnets. To achieve this configuration, the administrator configures a local policy on the WLC. Which two configurations are required? (Choose two.)

A. Assign a policy map under global security policy settings.
B. Add local profiling policy under global security policy settings.
C. Create a service template.
D. Allow HTTP and DHCP profiling under policy map.
E. Enable device classification on global wireless settings.

Answer: C,E

Question No : 12

In a Cisco WLAN deployment, it is required that all Aps from branch1 remain operational even if the control plane CAPWAP tunnel is down because of a WAN failure to headquarters. Which operational mode must be configured on the APs?

A. disconnected
B. standalone
C. lightweight
D. connected

Answer: B

Question No : 13

An engineer must configure a Cisco WLC to support Cisco Aironet 600 Series OfficeExtend APs. Which two Layer 2 security options are supported in this environment? (Choose two.)

A. Static WEP + 802.1X
B. WPA+WPA2
C. Static WEP
D. CKIP
E. 802.1X

Answer: B,C

Question No : 14

Which feature on the Cisco Wireless LAN Controller must be present to support dynamic VLAN mapping?

A. FlexConnect ACL
B. VLAN name override
C. CCKM/OKC
D. AAA override

Answer: D

Question No : 15

A corporation has recently implemented a BYOD policy at their HQ. Which two risks should the security director be concerned about? (Choose two.)

A. network analyzers
B. malware
C. lost and stolen devices
D. keyloggers
E. unauthorized users

Answer: B,C

An engineer set up a VoWLAN with QoS on the WLC and a class map on the switch, but the markings are not being preserved correctly in the end-to- end traffic flow. Which two configurations on the wired network ensure end-to-end QoS? (Choose two.)

A. trust boundaries
B. access lists
C. policy maps
D. QoS licenses
E. NetFlow

Answer: B,C

Which component must be integrated with Cisco DNA Center to display the location of a client that is experiencing connectivity issues?

A. Cisco Hyperlocation Module
B. Wireless Intrusion Prevention System
C. Cisco Connected Mobile Experiences
D. Cisco Mobility Services Engine

Answer: A

An engineer is assembling a PCI report for compliance purposes and must include missed best practices that are related to WLAN controllers. The engineer has access to all WLCs, Cisco MSE, and Cisco Prime Infrastructure. Which method most efficiently displays a summary of inconsistencies?

A. WLC running-config
B. Cisco Prime Infrastructure monitoring
C. Cisco Prime Infrastructure reporting
D. WLC logs

Answer: B

Question No : 19

An engineer must provide a graphical report with summary grouped data of the total number of wireless clients on the network. Which Cisco Prime Infrastructure report provides the required data?

A. Client Traffic Stream Metrics
B. Client Summary
C. Posture Status Count
D. Mobility Client Summary

Answer: D

Question No : 20

Where is a Cisco OEAP enabled on a Cisco Catalyst 9800 Series Wireless Controller?

A. RF Profile
B. Flex Profile
C. Policy Profile
D. AP Join Profile

Answer: B

Question No : 21

After looking in the logs, an engineer notices that RRM keeps changing the channels for non-IEEE 802.11 interferers. After surveying the area, it has been decided that RRM should not change the channel. Which feature must be enabled to ignore non-802.11 interference?

A. Avoid Cisco AP Load
B. Avoid Non-802.11 Noise
C. Avoid Persistent Non-WiFi Interference
D. Avoid Foreign AP Interference

Answer: C
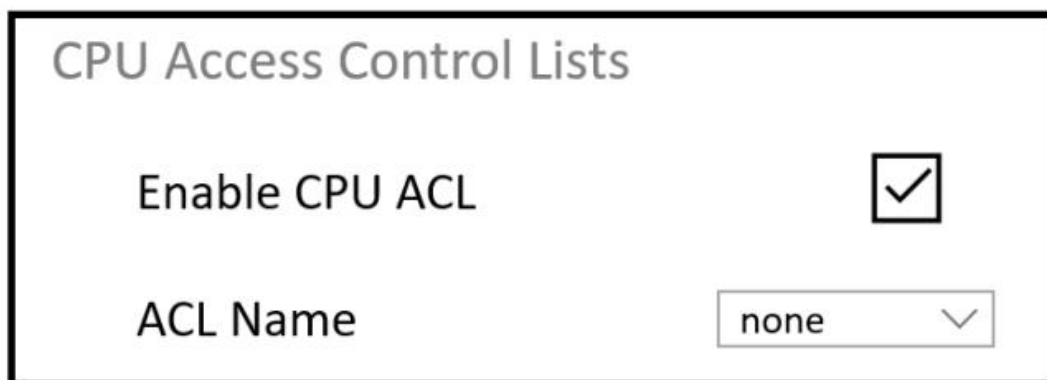

Question No : 22

A corporation is spread across different countries and uses MPLS to connect the offices. The senior management wants to utilize the wireless network for all the employees. To ensure strong connectivity and minimize delays, an engineer needs to control the amount of traffic that is traversing between the APs and the central WLC. Which configuration should be used to accomplish this goal?

A. FlexConnect mode with central switching enabled
B. FlexConnect mode with central authentication
C. FlexConnect mode with OfficeExtend enabled
D. FlexConnect mode with local authentication

Answer: D

Question No : 23

Refer to the exhibit.

An engineer must restrict some subnets to have access to the WLC. When the CPU ACL function is enabled, no ACLs in the drop-down list are seen. What is the cause of the problem?

A. The ACL does not have a rule that is specified to the Management interface.
B. No ACLs have been created under the Access Control List tab.
C. When the ACL is created, it must be specified that it is a CPU ACL.
D. This configuration must be performed through the CLI and not though the web GUI.

Answer: B

Question No : 24

A customer managing a large network has implemented location services. Due to heavy load, it is needed to load balance the data coming through NMSP from the WLCs. Load must be spread between multiple CMX servers to help optimize the data flow for APs. Which configuration in CMX meets this requirement?

A. cmxctl config feature flags nmsplb.cmx-ap-grouping true
B. cmxctl config feature flags nmsplb.cmxgrouping true
C. cmxctl config feature flags nmsplb.cmx-loadbalance true
D. cmxctl config feature flags nmsplb.cmx-rssi-distribute true

Answer: B
Reference: https://www.cisco.com/c/en/us/td/docs/wireless/mse/10-6/cmx_command/cmxcli106/cmxcli1051_chapter_010.html#wp7273815000
https://www.cisco.com/c/en/us/support/docs/wireless/connected-mobile-experiences/214894-optimize-cmx-performance.html

Question No : 25

An engineer is implementing RADIUS to restrict administrative control to the network with the WLC management IP address of 192.168.1.10 and an AP subnet of 192.168.2.0/24. Which entry does the engineer define in the RADIUS server?

A. administrative access defined on the WLC and the network range 192.168.2.0/255.255.254.0
B. NAS entry of the virtual interface and the network range 192.168.2.0/255.255.255.0
C. shared secret defined on the WLC and the network range 192.168.1.0/255.255.254.0
D. WLC roles for commands and the network range 192.168.1.0/255.255.255.0

Answer: A

Question No : 26

A wireless engineer must configure access control on a WLC using a TACACS+ server for a company that is implementing centralized authentication on network devices. Which role value must be configured under the shell profile on the TACACS+ server for a user with

read-only permissions?

A. ADMIN
B. MANAGEMENT
C. MONITOR
D. READ

Answer: C

Question No : 27

What must be configured on the Global Configuration page of the WLC for an AP to use 802.1x to authenticate to the wired infrastructure?

A. local access point credentials
B. RADIUS shared secret
C. TACACS server IP address
D. supplicant credentials

Answer: B

Question No : 28

A network engineer is deploying 8865 IP phones with wireless clients connected to them. In order to apply the appropriate QoS, the IP voice traffic needs to be distinguished from client data traffic. Which switch configuration feature must be enabled?

A. Voice VLAN
B. QBSS
C. WME
D. QoS routing

Answer: A

Question No : 29

An engineer must track guest traffic flow using the WLAN infrastructure. Which Cisco CMX feature must be configured and used to accomplish this tracking?

A. analytics

B. connect and engage

C. presence

D. detect and locate

Answer: D

Question No : 30

Which two steps are needed to complete integration of the MSE to Cisco Prime Infrastructure to track the location of clients/rogues on maps? (Choose two.)

A. Synchronize access points with the MSE.

B. Add the MSE to Cisco Prime Infrastructure using the CLI credentials.

C. Add the MSE to Cisco Prime Infrastructure using the Cisco Prime Infrastructure communication credentials.

D. Apply a valid license for Wireless Intrusion Prevention System.

E. Apply a valid license for location tracking.

Answer: D,E

Question No : 31

A customer is deploying local web authentication. Which software application must be implemented on Cisco ISE to utilize as a directory service?

A. Solaris Directory Service

B. LDAP

C. SAML

D. Novell eDirectory

Answer: B

Question No : 32

A FlexConnect remote office deployment is using five 2702i APs indoors and two 1532i APs outdoors. When a code upgrade is performed and FlexConnect Smart AP Image Upgrade is leveraged, but no FlexConnect Master AP has been configured, how many image transfers between the WLC and APs will occur?

A. 1
B. 2
C. 5
D. 7

Answer: B

Question No : 33

Refer to the exhibit.

Event	5405 RADIUS Request dropped
Failure Reason	11036 The Message-Authenticator RADIUS attribute is invalid

A wireless engineer has integrated the wireless network with a RADIUS server. Although the configuration on the RADIUS is correct, users are reporting that they are unable to connect. During troubleshooting, the engineer notices that the authentication requests are being dropped. Which action will resolve the issue?

A. Allow connectivity from the wireless controller to the IP of the RADIUS server.
B. Provide a valid client username that has been configured on the RADIUS server.
C. Configure the shared-secret keys on the controller and the RADIUS server.
D. Authenticate the client using the same EAP type that has been set up on the RADIUS server.

Answer: C

Question No : 34

A healthcare organization notices many rogue APs and is concerned about a honeypot attack. Which configuration must a wireless network engineer perform in Cisco Prime Infrastructure to prevent these attacks most efficiently upon detection?

A. Set the auto containment level to 0 and select the Using Our SSID containment option.
B. Set the manual containment level to 4 and select the Ad Hoc Rogue AP containment option.
C. Set the auto containment level to 0 and select the Ad Hoc Rogue AP containment option.
D. Set the auto containment level to 4 and select the Using Our SSID containment option.

Answer: B

An engineer set up identity-based networking with ISE and configured AAA override on the WLAN. Which two attributes must be used to change the client behavior from the default settings? (Choose two.)

A. DHCP timeout
B. DNS server
C. IPv6 ACL
D. DSCP value
E. multicast address

Answer: C,D

An enterprise started using WebEx as a virtual meeting solution. There is a concern that the existing wireless network will not be able to support the increased amount of traffic as a result of using WebEx. An engineer needs to remark the QoS value for this application to ensure high quality in meetings. What must be implemented to accomplish this task?

A. QoS preferred call index
B. UP to DSCP map
C. AVC profiles
D. WLAN quality of service profile

Answer: C
Reference: https://www.ciscolive.com/c/dam/r/ciscolive/apjc/docs/2018/pdf/BRKEWN-3003.pdf

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A network engineer wants to implement QoS across the network that supports multiple VLANs. All the APs are connected to switch ports and are configured in local mode. Which trust model must be configured on the switch ports to which the APs are connected?