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Designing Cisco Enterprise Wireless Networks (ENWLSD)

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QUESTION 1

An engineer is designing a wireless deployment for a university auditorium. Which two features can be used to help deal with the issues introduced by high AP count? (Choose two.)

A. TSPEC

B. RXSOP

C. TPC

D. LSS

E. DFS

Correct Answer: CE

Reference: https://www.cisco.com/c/en/us/support/docs/wireless-mobility/80211/200069-Overview-on-802-11h-Transmit-Power-Cont.html

QUESTION 2

Which non-Wi-Fi interferer can be identified by Metageek Chanalyzer?

A. PDAs

B. jammers

C. smartphones

D. printers

Correct Answer: B

Reference: https://www.metageek.com/training/resources/wifi-and-non-wifi-interference

A jamming transmitter creates constant noise across each frequency. These are used in a denial-of-service attack, and will prevent other wireless technologies from fully operating.

QUESTION 3

Guest anchoring is configured for a newly created SSID for your company. It has been noticed that the mobility tunnels are not up, and that MPING fails from your foreign WLC to the anchor WLC. What is the reason that it is failing?

A. A rule is needed at the firewall to allow UDP port 16666 for communication to work.

B. A rule is needed at the firewall to allow UDP port 97 for communication to work.

C. A rule is needed at the firewall to allow TCP port 97 for communication to work.

D. A rule is needed at the firewall to allow TCP port 16666 for communication to work.

Correct Answer: A

Reference:

- UDP 16666 for tunnel control traffic

- IP Protocol 97 for user data traffic

- UDP 161 and 162 for SNMP

QUESTION 4

An engineer needs a wireless design to provide redundancy for APs at remote sites that are connected to Cisco 3504 Wireless LAN Controllers. The central Cisco 5520 Wireless LAN Controller supports 2000 APs and has 1975 access points associated to it. The engineer decides that not all APs at the remote sites must remain functional in the event of a failure. How does the engineer ensure that the most important access points at the remote sites remain online while not impacting the main site?

A. Enable Global AP Failover Priority, set the 1975 APs to a priority of "high", and set the 25 most important APs at the remote sites to "critical".

B. Enable AP Fallback Mode, set the 1975 APs to a priority of "high", and set the 25 most important APs at the remote sites to "critical".

C. Enable Global AP Failover Priority, leave the 1975 APs at the default priority, and set the most important APs at the remote sites to "low".

D. Enable AP Fallback Mode, leave the 1975 APs at the default priority, and set the most important APs at the remote sites to "high".

Correct Answer: A

QUESTION 5

An engineer is designing an outdoor mesh network to cover several sports fields. The core of the network is located in a building at the entrance of a sports complex. Which type of antenna should be used with the RAP for backhaul connectivity?

A. 5 GHz. 8-dBi omnidirectional antenna

B. 2.4 GHz. 8-dBi patch antenna

C. 2.4 GHz. 14-dBi omnidirectional antenna

D. 5 GHz. 14-DBi patch antenna

Correct Answer: D

Reference: https://www.cisco.com/c/en/us/products/collateral/wireless/aironet-antennas-

accessories/product_data_sheet09186a008008883b.html

QUESTION 6

A network engineer must design a new wireless solution for a company, but the budget can only stretch to include a single Cisco 9800-40 WLC. The company requires high availability between the WLC and the core switch in the event of a cable failure. The WLC must dynamically manage port redundancy and perform load balancing between APs transparently. Which design approach must the engineer take to meet the requirements?

A. LAG

B. Multi-LAG

C. LACP D. PAgP

Correct Answer: A

QUESTION 7

An engineer must perform a Layer 2 survey for a mining facility. Which type of antenna does the engineer use in the mine shaft?

A. omnidirectional

B. patch

C. internal

D. dipole

Correct Answer: A

QUESTION 8

Which UDP port numbers are used for exchange mobility packets in an AireOS wireless deployment?

A. UDP 16666 for control plane, EoIP (IP protocol 97) for data plane

B. UDP 16668 for control plane, UDP 16667 for data plane

C. UDP 16667 for control plane, UDP 16666 for data plane

D. UDP 16666 for control plane, UDP 16667 for data plane

Correct Answer: D

Reference:

• Enable these UDP ports for Mobility traffic:

  • 16666 – Secured Mode
  • 16667 – Unsecured Mode

QUESTION 9

A network engineer needs to create a wireless design wired IP surveillance cameras in the parking lot through a mesh AP. To which operate mode of the AP should the cameras connect?

A. Flexconnect

B. MAP

C. RAP

D. Local

Correct Answer: B

QUESTION 10

An enterprise network administrator is asked to set up an experimental WLAN for a collaboration project with a local service provider. The WLAN must be anchored to a WLC in the service provider data center using legacy mobility mode. After the configurations are completed on the WLCs and the firewalls in the path, the data path mobility tunnel is failing to come up. What should be performed by the administrator to debug the issue?

A. Establish a Telnet connection from a local PC to the firewall on port 97.

B. Use the eping command on the WLC.

C. Establish a Telnet connection from a local PC to the firewall on port 16666.

D. Use the mping command on the WLC.

Correct Answer: B

Reference: https://www.cisco.com/c/en/us/support/docs/wireless/4400-series-wireless-lan-controllers/107458-wga-faq.html

QUESTION 11

A new wireless network design has these requirements: AireOS WLCs as guest anchors a Cisco Catalyst 9800 Series WLC as the foreign controller use of Wi-Fi 6 APs inter-controller roaming for guest users

Which two design approaches meet these requirements? (Choose two.)

A. Use EoIP for communication between controllers.

B. Use WLC software versions that support IRCM.

C. Use AVC on the anchor WLCs.

D. Use IPv6 across the wireless network.

E. Use secure mobility to pair controllers.

Correct Answer: BE

QUESTION 12

What is the recommended cell overlap when designing a wireless network for Cisco Hyperlocation?

A. 20%

B. 30%

C. 40%

D. 50%

Correct Answer: A

Reference:

• 20% cell overlap for optimized roaming and location calculations

QUESTION 13

An engineer is designing a wireless network to support high availability. The network will need to support the total number of APs and client SSO. Live services should continue to work without interruption during the failover Which two requirements need to be incorporated into the design to meet these needs? (Choose two.)

A. redundant WLC

B. controller high availability pair with one of the WLCs having a valid AP count license

C. 10 sec RTT

D. back-to-back direct connection between WLCs

E. WLC 7.5 code or more recent

Correct Answer: BD

Reference:

https://www.cisco.com/c/en/us/td/docs/wireless/controller/technotes/7-5/High_Availability_DG.html#pgfId-44074

QUESTION 14

Based on a wireless network design, an engineer configured a primary and secondary controller for their APs. A power interruption caused the primary Cisco WLC to go down, and, as expected, all APs joined the secondary controller. When the primary controller came back up, all the APs remained joined to the secondary controller. Which approach must the engineer take for the APs to move back to the primary?

A. Set AP Failover Priority to 4 on each AP.

B. Set AP Fallback to Enabled on the secondary controller.

C. Set AP Fallback to Enabled on the primary controller.

D. Set AP Failover Priority to Critical globally.

Correct Answer: C

QUESTION 15

A network engineer is preparing for an office site survey with a height of 2.5 meters. Which three components are recommended to complete the survey? (Choose three.)

A. Use a battery pack to power APs

B. Use a drawing of the office space to draw AP and client placements.

C. Use DoS attack on APs while measuring the throughput.

D. Use APs with directional antennas.

E. Use APs with external antennas.

F. Use APs with built-in antennas.

Correct Answer: ABF

Reference: https://www.cisco.com/c/en/us/td/docs/wireless/technology/mesh/8-4/b_mesh_84/Site_Preparation_and_Planning.html#ID3405

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