



Fortinet

Exam Questions NSE6_FWF-6.4

Fortinet NSE 6 - Secure Wireless LAN 6.4

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NEW QUESTION 1

Refer to the exhibits.

Exhibit A

```
config wireless-controller wtp-profile
  edit "Main Networks - FAP-320C"
    set comment "Profile with standard networks"
    config platform
      set type 320C
    end
    set handoff-rssi 30
    set handoff-sta-thresh 30
    set ap-country GB
    config radio-1
      set band 802.11n
      set power-level 50
      set channel-utilization enable
      set wids-profile "default-wids-apscan-enabled"
      set darrp enable
      set vap-all manual
      set vaps "Main-Wifi" "Contractors" "Guest"
      "Wifi_IOT" "Wifi_POS" "Staff" "Students"
      set channel "1" "6" "11"
    end
    config radio-2
      set band 802.11ac
      set channel-bonding 40MHz
      set power-level 60
      set channel-utilization enable
      set wids-profile "default-wids-apscan-enabled"
      set darrp enable
      set vap-all manual
      set vaps "Main-Wifi" "Contractors" "Guest"
      "Wifi_IOT" "Wifi_POS" "Staff" "Students"
      set channel "36" "44" "52" "60"
    end
  end
next
end
```

Exhibit B

Diagnostics and Tools - Office

Office

Serial Number

FPXXXXXXXXXXXX

Base MAC Address

XX:XX:XX:XX:XX:XX

Status

Online

Country/Region

GB

Uplink Interface

FortiAP management (ap)

IPv4 Address

192.168.5.98

Uptime

12m1s

Version

v6.4 build0437

Actions

General

56%

CPU Usage

70%

Memory Usage

0 days

Connection Uptime

1.0 Gbps

lan1

0 Mbps

lan2

Radio 1 - 2.4 GHz

31

Interfering SSIDs

1

Clients

25%

Channel Utilization

Radio 2 - 5 GHz

0

Interfering SSIDs

30

Clients

5%

Channel Utilization

Radios

Clients

Interfering SSIDs

Logs

CLI Access

Spectrum Analysis

VLAN Probe

	Radio 1 - 2.4 GHz	Radio 2 - 5 GHz
Mode	AP	AP
SSID	<div>fortinet (Main-WiFi)</div> <div>fortinet2 (Contractors)</div> <div>fortinet3 (Guest)</div>	<div>fortinet (Main-WiFi)</div> <div>fortinet2 (Contractors)</div> <div>fortinet3 (Guest)</div>
Clients	1	20
Bandwidth Tx	4.65 kbps	1.16 kbps
Bandwidth Rx	20.46 kbps	176 bps
Operating Channel	1	60
Channels		
Operating TX Power	3 dBm	21 dBm
Band	802.11n	802.11ac

Interfering SSIDs for Office (Radio 1)

Refresh

Search

SSID	AP BSSID	Channel	Signal
Husky	aa:aa:aa:aa:aa	1	-84 dBm
Husky guest	bb:bb:bb:bb:bb	1	-84 dBm
KBANK5007	cc:cc:cc:cc:cc	1	-85 dBm
mandikaylee	dd:dd:dd:dd:dd	1	-86 dBm
	ee:ee:ee:ee:ee	1	-87 dBm
HUAWEI-EMIX4f	ee:ee:ee:ee:ef	1	-88 dBm
trojan-3	ff:ff:ff:ff:ff	1	-88 dBm
	fg:gg:gg:gg:gg	1	-89 dBm
	hg:gg:gg:gg:gg	1	-89 dBm

Exhibit C

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```
# get wireless-controller rf-analysis FPXXXXXXXXXXXXXX
```

```
WTP: Office 0-192.168.5.98:5246
```

channel	rss-total	rf-score	overlap-ap	interfere-ap	chan-utilization
1	100	6	13	13	63%
2	23	10	0	22	47%
3	15	10	0	22	15%
4	24	10	0	22	15%
5	51	10	0	22	41%
6	223	1	9	9	75%
7	52	10	0	17	47%
8	32	10	0	17	13%
9	27	10	0	19	10%
10	45	10	0	19	28%
11	177	1	8	10	65%
12	46	10	0	10	34%
13	45	10	2	10	70%
14	14	10	0	10	0%
36	16	10	2	2	0%
44	83	7	5	5	0%

A wireless network has been installed in a small office building and is being used by a business to connect its wireless clients. The network is used for multiple purposes, including corporate access, guest access, and connecting point-of-sale and IoT devices.

Users connecting to the guest network located in the reception area are reporting slow performance. The network administrator is reviewing the information shown in the exhibits as part of the ongoing investigation of the problem. They show the profile used for the AP and the controller RF analysis output together with a screenshot of the GUI showing a summary of the AP and its neighboring APs.

To improve performance for the users connecting to the guest network in this area, which configuration change is most likely to improve performance?

- A. Increase the transmission power of the AP radios
- B. Enable frequency handoff on the AP to band steer clients
- C. Reduce the number of wireless networks being broadcast by the AP
- D. Install another AP in the reception area to improve available bandwidth

Answer: B

NEW QUESTION 2

Which administrative access method must be enabled on a FortiGate interface to allow APs to connect and function?

- A. Security Fabric
- B. SSH
- C. HTTPS
- D. FortiTelemetry

Answer: A

NEW QUESTION 3

Which two configurations are compatible for Wireless Single Sign-On (WSSO)? (Choose two.)

- A. A VAP configured for captive portal authentication
- B. A VAP configured for WPA2 or 3 Enterprise
- C. A VAP configured to authenticate locally on FortiGate
- D. A VAP configured to authenticate using a radius server

Answer: BD

Explanation:

In the SSID choose WPA2-Enterprise authentication.

WSSO is RADIUS-based authentication that passes the user's user group memberships to the FortiGate.

NEW QUESTION 4

A tunnel mode wireless network is configured on a FortiGate wireless controller. Which task must be completed before the wireless network can be used?

- A. The wireless network interface must be assigned a Layer 3 address
- B. Security Fabric and HTTPS must be enabled on the wireless network interface
- C. The wireless network to Internet firewall policy must be configured
- D. The new network must be manually assigned to a FortiAP profile.

Answer: C

Explanation:

A FortiGate unit is an industry leading enterprise firewall. In addition to consolidating all the functions of a network firewall, IPS, anti-malware, VPN, WAN optimization, Web filtering, and application control in a single platform, FortiGate also has an integrated Wi-Fi controller.

NEW QUESTION 5

Which two statements about distributed automatic radio resource provisioning (DARRP) are correct? (Choose two.)

- A. DARRP performs continuous spectrum analysis to detect sources of interference
- B. It uses this information to allow the AP to select the optimum channel.
- C. DARRP performs measurements of the number of BSSIDs and their signal strength (RSSI). The controller then uses this information to select the optimum channel for the AP.
- D. DARRP measurements can be scheduled to occur at specific times.
- E. DARRP requires that wireless intrusion detection (WIDS) be enabled to detect neighboring devices.

Answer: BC

Explanation:

According to Fortinet training: "When using DARRP, the AP selects the best channel available to use based on the scan results of BSSID/receive signal strength (RSSI) to AC" and "To set the running time for DARRP optimization, use the following CLI command within the wireless controller setting: set darrp-optimize {integer}. Note that DARRP doesn't do continuous spectrum analysis..."

NEW QUESTION 6

Which two phases are part of the process to plan a wireless design project? (Choose two.)

- A. Project information phase
- B. Hardware selection phase
- C. Site survey phase
- D. Installation phase

Answer: AC

NEW QUESTION 7

When enabling security fabric on the FortiGate interface to manage FortiAPs, which two types of communication channels are established between FortiGate and FortiAPs? (Choose two.)

- A. Control channels
- B. Security channels
- C. FortLink channels
- D. Data channels

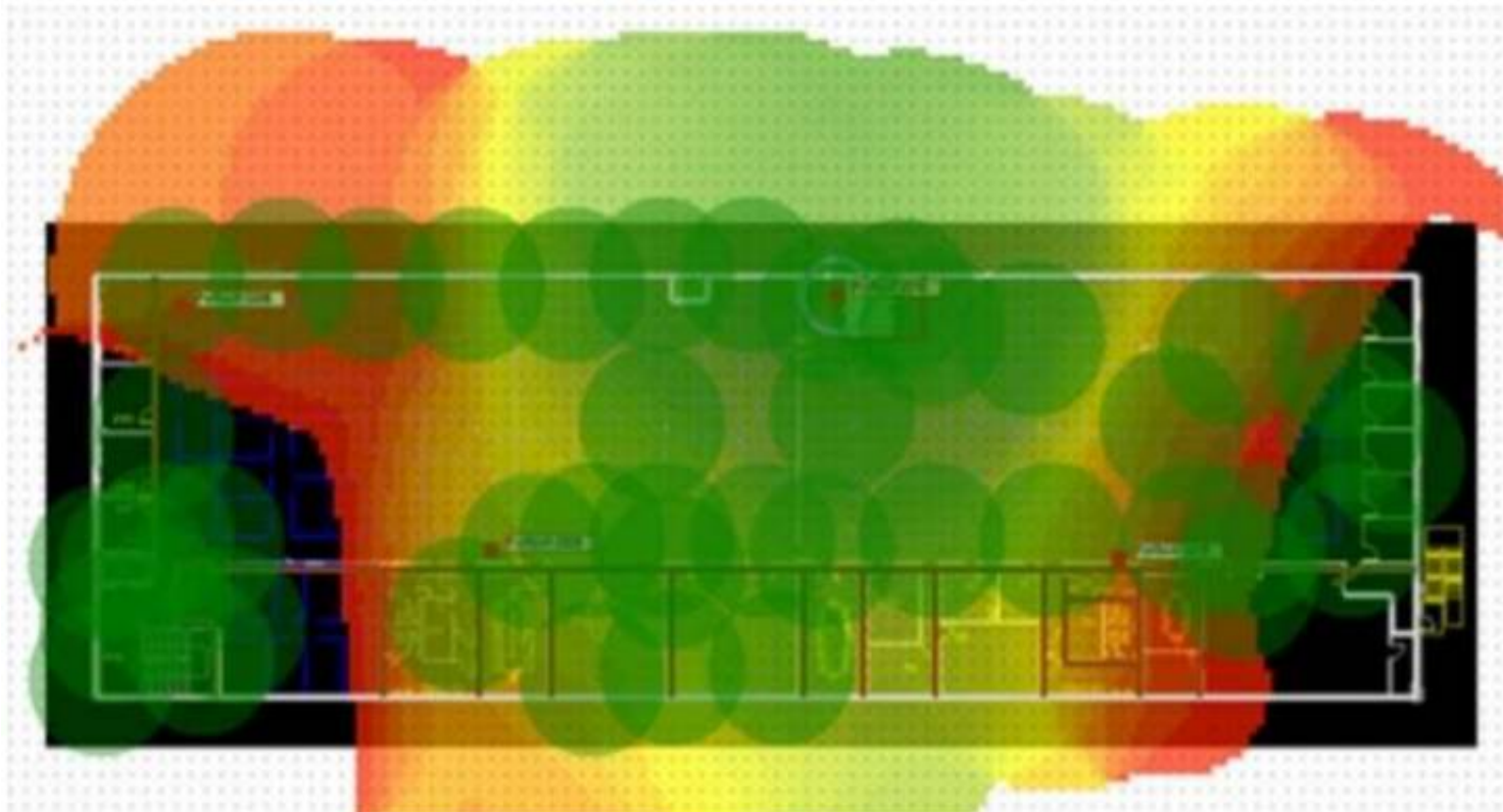
Answer: AD

Explanation:

The control channel for managing traffic, which is always encrypted by DTLS. | The data channel for carrying client data packets.

NEW QUESTION 8

Refer to the exhibit.



If the signal is set to -68 dB on the FortiPlanner site survey reading, which statement is correct regarding the coverage area?

- A. Areas with the signal strength equal to -68 dB are zoomed in to provide better visibility
- B. Areas with the signal strength weaker than -68 dB are cut out of the map
- C. Areas with the signal strength equal or stronger than -68 dB are highlighted in multicolor
- D. Areas with the signal strength weaker than -68 dB are highlighted in orange and red to indicate that no signal was propagated by the APs.

Answer: D

NEW QUESTION 9

As standard best practice, which configuration should be performed before configuring FortiAPs using a FortiGate wireless controller?

- A. Create wireless LAN specific policies
- B. Preauthorize APs
- C. Create a custom AP profile
- D. Set the wireless controller country setting

Answer: D

NEW QUESTION 10

Refer to the exhibits.

Exhibit A

```
config wireless-controller wtp
  edit "FPXXXXXXXXXXXXXXXXX"
    set admin enable
    set name "Authors AP1"
    set wtp-profile "Authors"
    config radio-1
  end
  config radio-2
  end
next
edit "FPXXXXXXXXXXXXYYY"
  set admin enable
  set name " Authors AP2"
  set wtp-profile "Authors"
  config radio-1
  end
  config radio-2
  end
next
edit "FPXXXXXXXXXXXXZZZ"
  set admin enable
  set name " Authors AP3"
  set wtp-profile "Authors"
  config radio-1
  end
  config radio-2
  end
next
end
```

Exhibit B

```
sh wireless-controller wtp-profile Authors
config wireless-controller wtp-profile
  edit "Authors"
    set comment "APs allocated to authors"
    set handoff-sta-tresh 30
    config radio-1
      set band 802.11n-5G
      set channel-bonding 40MHz
      set auto-power-level enable
      set auto-power-high 12
      set auto-power-low 1
      set vap-all tunnel
      set channel "36" "40" "44" "48" "52" "56"
      "60" "64" "100" "104" "108" "112" "116" "120" "124"
      "128" "132" "136"
    end
    config radio-2
      set band 802.11n, g-only
      set auto-power-level enable
      set auto-power-high 12
      set auto-power-low 1
      set vap-all tunnel
      set channel "1" "6" "11"
    end
  next
end
config wireless-controller vap
  edit "Authors"
    set ssid "Authors"
    set security wpa2-only-enterprise
    set radius-mac-auth enable
    set radius-mac-auth-server "Main AD"
    set local-bridging enable
    set intra-vap-privacy enable
    set schedule "always"
  next
end
```

A wireless network has been created to support a group of users in a specific area of a building. The wireless network is configured but users are unable to connect to it. The exhibits show the relevant controller configuration for the APs and the wireless network. Which two configuration changes will resolve the issue? (Choose two.)

- A. For both interfaces in the wtp-profile, configure set vaps to be "Authors"
- B. Disable intra-vap-privacy for the Authors vap-wireless network
- C. For both interfaces in the wtp-profile, configure vap-all to be manual
- D. Increase the transmission power of the AP radio interfaces

Answer: AC

NEW QUESTION 10

Which statement describes FortiPresence location map functionality?

- A. Provides real-time insight into user movements
- B. Provides real-time insight into user online activity
- C. Provides real-time insight into user purchase activity
- D. Provides real-time insight into user usage stats

Answer: A

NEW QUESTION 12

How are wireless clients assigned to a dynamic VLAN configured for hash mode?

- A. Using the current number of wireless clients connected to the SSID and the number of IPs available in the least busy VLAN
- B. Using the current number of wireless clients connected to the SSID and the number of clients allocated to each of the VLANs
- C. Using the current number of wireless clients connected to the SSID and the number of VLANs available in the pool
- D. Using the current number of wireless clients connected to the SSID and the group the FortiAP is a member of

Answer: C

Explanation:

VLAN from the VLAN pool based on a hash of the current number of SSID clients and the number of entries in the VLAN pool.

NEW QUESTION 16

Which two roles does FortiPresence analytics assist in generating presence reports? (Choose two.)

- A. Gathering details about on site visitors
- B. Predicting the number of guest users visiting on-site
- C. Comparing current data with historical records
- D. Reporting potential threats by guests on site

Answer: AC

NEW QUESTION 19

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