

## 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

```
# 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

When configuring a wireless network for dynamic VLAN allocation, which three IETF attributes must be supplied by the radius server? (Choose three.)

- A. 81 Tunnel-Private-Group-ID
- B. 65 Tunnel-Medium-Type
- C. 83 Tunnel-Preference
- D. 58 Egress-VLAN-Name
- E. 64 Tunnel-Type

**Answer: ABE**

#### Explanation:

The RADIUS user attributes used for the VLAN ID assignment are: IETF 64 (Tunnel Type)—Set this to VLAN.

IETF 65 (Tunnel Medium Type)—Set this to 802

IETF 81 (Tunnel Private Group ID)—Set this to VLAN ID.

#### NEW QUESTION 3

Refer to the exhibits.

Exhibit A



```
53836.574 xx:xx:xx:xx:xx:xx <ih> IEEE 802.11 mgmt::assoc_req <==
xx:xx:xx:xx:xx:xx ws (0-192.168.5.98:5246) vap Wireless rId 1 wId2
yy:yy:yy:yy:yy:yy

53836.574 xx:xx:xx:xx:xx:xx <ih> xx:xx:xx:xx:xx:xx sta =
0x6311c88, sta->flags = 0x00000001, auth_alg = 0, hapd->splitMac: 1

53836.575 xx:xx:xx:xx:xx:xx <ih> IEEE 802.11 mgmt::assoc_resp <==
xx:xx:xx:xx:xx:xx ws (0-192.168.5.98:5246) vap Wireless rId 1 wId2
yy:yy:yy:yy:yy:yy

53836.575 xx:xx:xx:xx:xx:xx <ih> IEEE 802.11 mgmt::assoc_resp <==
xx:xx:xx:xx:xx:xx ws (0-192.168.5.98:5246) vap Wireless rId 1 wId2
yy:yy:yy:yy:yy:yy

53836.575 xx:xx:xx:xx:xx:xx <dc> STA add xx:xx:xx:xx:xx:xx vap
Wireless ws (0-192.168.5.98:5246) rId 1 wId2 bssid
yy:yy:yy:yy:yy:yy NON-AUTH band 0x10 mimo 2*2

53836.575 xx:xx:xx:xx:xx:xx <cc> STA_CFG_REQ(10) sta
xx:xx:xx:xx:xx:xx add ==> ws (0-192.168.5.98:5246) rId 1 wId 2

53836.576 xx:xx:xx:xx:xx:xx <cc> STA add xx:xx:xx:xx:xx:xx vap
Wireless ws (0-192.168.5.98:5246) rId 1 wId 2 yy:yy:yy:yy:yy:yy sec
WPA2 PERSONAL auth 0

53836.576 xx:xx:xx:xx:xx:xx cwAcStaRbtAdd: I2C_STA_ADD insert sta
xx:xx:xx:xx:xx:xx 192.168.5.98/1/2/1

53836.577 xx:xx:xx:xx:xx:xx <cc> STA_CFG_RESP(10) sta xx:xx:xx:xx:xx:xx
<== ws (0-192.168.5.98:5246) rc 0 (Success)

64318.579 xx:xx:xx:xx:xx:xx <eh> RADIUS message (type=0) ==> RADIUS
Server code=1 (Access-Request) id=9 len=214

64318.579 xx:xx:xx:xx:xx:xx <eh> send 1/4 msg of 4-Way
Handshake

64318.580 xx:xx:xx:xx:xx:xx <eh> send IEEE 802.1X ver=2 type=3
(EAPOL_KEY) data len=95 replay cnt 1

64813.580 xx:xx:xx:xx:xx:xx <eh> IEEE 802.1X (EAPOL99B) ==>
xx:xx:xx:xx:xx:xx ws (0-192.168.5.98:5246) rId 1 wId 2
yy:yy:yy:yy:yy:yy

64318.582 xx:xx:xx:xx:xx:xx <eh> RADIUS message (type=0) <== RADIUS
Server code=2 (Access-Accept) id=9 len=114

53836.582 xx:xx:xx:xx:xx:xx <dc> STA chg xx:xx:xx:xx:xx:xx vap
Wireless ws (0-192.168.5.98:5246) rId 1 wId 2 bssid
yy:yy:yy:yy:yy:yy Auth:allow
```

Exhibit B

```

64813.583 xx:xx:xx:xx:xx:xx <eh> IEEE 802.1X (EAPOL 121B) <==
xx:xx:xx:xx:xx:xx ws (0-192.168.5.98:5246) rId 1 wId2
yy:yy:yy:yy:yy:yy

64813.583 xx:xx:xx:xx:xx:xx <eh>      recv IEEE 802.1X ver=1 type=3
(EAPOL_KEY) data len=117

64813.583 xx:xx:xx:xx:xx:xx <eh>      recv EAPOL-Key 2/4 Pairwise
replay cnt 1

64813.583 xx:xx:xx:xx:xx:xx <eh>      send 3/4 msg of 4-Way
Handshake

64813.584 xx:xx:xx:xx:xx:xx <eh>      send IEEE 802.1X ver=2 type=3
(EAPOL_KEY) data len=151 replay cnt 2

64813.584 xx:xx:xx:xx:xx:xx <eh> IEEE 802.1X (EAPOL 155B) ==>
xx:xx:xx:xx:xx:xx ws (0-192.168.5.98:5246) rId 1 wId2
yy:yy:yy:yy:yy:yy

64813.586 xx:xx:xx:xx:xx:xx <eh> IEEE 802.1X (EAPOL 99B) <==
xx:xx:xx:xx:xx:xx ws (0-192.168.5.98:5246) rId 1 wId2
yy:yy:yy:yy:yy:yy

64813.586 xx:xx:xx:xx:xx:xx <eh>      recv IEEE 802.1X ver=1 type=3
(EAPOL_KEY) data len=35

64813.586 xx:xx:xx:xx:xx:xx <eh>      recv EAPOL-Key 4/4 Pairwise
replay cnt 2

53836.587 xx:xx:xx:xx:xx:xx <dc> STA chg xx:xx:xx:xx:xx:xx vap
Wireless ws (0-192.168.5.98:5246) rId 1 wId2 bssid
yy:yy:yy:yy:yy:yy AUTH

53836.587 xx:xx:xx:xx:xx:xx <cc> STA chg xx:xx:xx:xx:xx:xx vap
Wireless ws (0-192.168.5.98:5246) rId 1 wId2 yy:yy:yy:yy:yy:yy sec
WPA2 PERSONAL auth 1 *****

53836.587 xx:xx:xx:xx:xx:xx <cc> STA_CFG_REQ(12) sta
xx:xx:xx:xx:xx:xx add key (len=16) ==> ws (0-192.168.5.98:5246) rId
1 wId2

53836.589 xx:xx:xx:xx:xx:xx <cc> STA_CFG_REQ(12) xx:xx:xx:xx:xx:xx
<== ws (0-192.168.5.98:5246) rc 0 (Success)

53837.140 xx:xx:xx:xx:xx:xx <dc> DHCP Request server 0.0.0.0 <==
host DESKTOP-CVKGHH mac xx:xx:xx:xx:xx:xx ip 192.168.30.2 xId
88548005

53837.142 xx:xx:xx:xx:xx:xx <dc> DHCP Ack server 192.168.30.1 ==>
host mac xx:xx:xx:xx:xx:xx ip 192.168.30.2 mask 255.255.255.0 gw
192.168.30.1 xId 88548005

```

The exhibits show the diagnose debug log of a station connection taken on the controller CLI. Which security mode is used by the wireless connection?

- A. WPA2 Enterprise
- B. WPA3 Enterprise
- C. WPA2 Personal and radius MAC filtering
- D. Open, with radius MAC filtering

**Answer: C**

#### NEW QUESTION 4

Which of the following is a requirement to generate analytic reports using on-site FortiPresence deployment?

- A. SQL services must be running
- B. Two wireless APs must be sending data
- C. DTLS encryption on wireless traffic must be turned off

D. Wireless network security must be set to open

**Answer:** A

#### NEW QUESTION 5

What is the first discovery method used by FortiAP to locate the FortiGate wireless controller in the default configuration?

- A. DHCP
- B. Static
- C. Broadcast
- D. Multicast

**Answer:** B

#### NEW QUESTION 6

Which factor is the best indicator of wireless client connection quality?

- A. Downstream link rate, the connection rate for the AP to the client
- B. The receive signal strength (RSS) of the client at the AP
- C. Upstream link rate, the connection rate for the client to the AP
- D. The channel utilization of the channel the client is using

**Answer:** C

#### NEW QUESTION 7

Six APs are located in a remotely based branch office and are managed by a centrally hosted FortiGate. Multiple wireless users frequently connect and roam between the APs in the remote office.

The network they connect to, is secured with WPA2-PSK. As currently configured, the WAN connection between the branch office and the centrally hosted FortiGate is unreliable.

Which configuration would enable the most reliable wireless connectivity for the remote clients?

- A. Configure a tunnel mode wireless network and enable split tunneling to the local network
- B. Configure a bridge mode wireless network and enable the Local standalone configuration option
- C. Configure a bridge mode wireless network and enable the Local authentication configuration option
- D. Install supported FortiAP and configure a bridge mode wireless network

**Answer:** A

#### NEW QUESTION 8

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 9

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 10

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. I The data channel for carrying client data packets.



#### NEW QUESTION 10

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 12

Refer to the exhibits.

Exhibit A

```
config wireless-controller wtp
  edit "FPXXXXXXXXXXXXXXX"
    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 16

You are investigating a wireless performance issue and you are trying to audit the neighboring APs in the PF environment. You review the Rogue APs widget on the GUI but it is empty, despite the known presence of other APs. Which configuration change will allow neighboring APs to be successfully detected?

- A. Enable Locate WiFi clients when not connected in the relevant AP profiles.
- B. Enable Monitor channel utilization on the relevant AP profiles.
- C. Ensure that all allowed channels are enabled for the AP radios.
- D. Enable Radio resource provisioning on the relevant AP profiles.

**Answer:** D

#### Explanation:

The ARRP (Automatic Radio Resource Provisioning) profile improves upon DARRP (Distributed Automatic Radio Resource Provisioning) by allowing more factors to be considered to optimize channel selection among FortiAPs. DARRP uses the neighbor APs channels and signal strength collected from the background scan for channel selection.

#### NEW QUESTION 17

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 20**

When using FortiPresence as a captive portal, which two types of public authentication services can be used to access guest Wi-Fi? (Choose two.)

- A. Social networks authentication
- B. Software security token authentication
- C. Short message service authentication
- D. Hardware security token authentication

**Answer:** AC

**NEW QUESTION 23**

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