NSE6_FWF-6.4 Q&As

Fortinet NSE 6 - Secure Wireless LAN 6.4

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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
    next
end
```

Exhibit B.

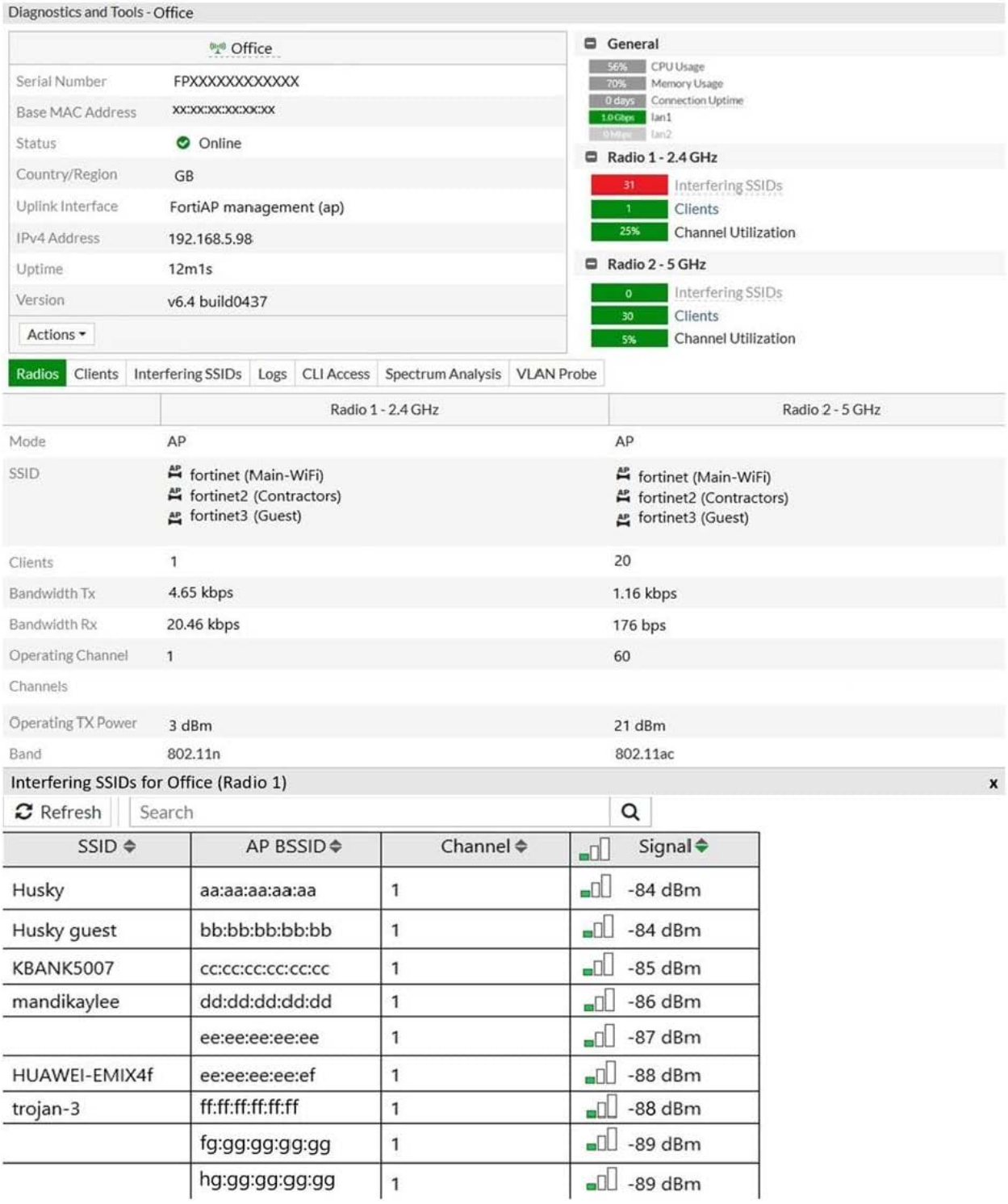
Diagnostics and Tools - Office
Office
Serial Number FPXXXXXXXXXXXX
Base MAC Address xx:xx:xx:xx:xx:xx
Status Online
Country/Region GB
Uplink Interface FortiAP management (ap)
IPv4 Address 192.168.5.98
Uptime 12m1s
Version v6.4 build0437
Actions
General
56% CPU Usage
70% Memory Usage
0 days Connection Uptime
1.0 Gbps lan1
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 fortinet (Main-WiFi) fortinet2 (Contractors) fortinet3 (Guest)
fortinet (Main-WiFi) fortinet2 (Contractors) fortinet3 (Guest)
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: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: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    rssi-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 Io? 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

Correct Answer: A

QUESTION 2

Part of the location service registration process is to link FortiAPs in FortiPresence.

Which two management services can configure the discovered AP registration information from the FortiPresence cloud? (Choose two.)

A. AP Manager

B. FortiAP Cloud

C. FortiSwitch

D. FortiGate

Correct Answer: BD

FortiGate, FortiCloud wireless access points (send visitor data in the form of station reports directly to FortiPresence)

Reference: https://fortinetweb.s3.amazonaws.com/docs.fortinet.com/v2/attachments/df877622-c976-11e98977-00505692583a/FortiPresence-v4.3-release-notes.pdf

QUESTION 3

When configuring Auto TX Power control on an AP radio, which two statements best describe how the radio responds? (Choose two.)

A. When the AP detects any other wireless signal stronger that -70 dBm, it will reduce its transmission power until it reaches the minimum configured TX power limit.

B. When the AP detects PF Interference from an unknown source such as a cordless phone with a signal stronger that -70 dBm, it will increase its transmission power until it reaches the maximum configured TX power limit.

C. When the AP detects any wireless client signal weaker than -70 dBm, it will reduce its transmission power until it reaches the maximum configured TX power limit.

D. When the AP detects any interference from a trusted neighboring AP stronger that -70 dBm, it will reduce its transmission power until it reaches the minimum configured TX power limit.

Correct Answer: AC

Reference: https://www.watchguard.com/help/docs/help-center/en-US/Content/en-US/Fireware/wireless/ap_wireless_signalstrength_c.html

QUESTION 4

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

Correct Answer: A

QUESTION 5

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.

Correct Answer: D

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.

Reference: https://docs.fortinet.com/document/fortigate/6.4.0/new-features/228374/add-arrp-profile-forwireless-controller-6-4-2