Fortinet

NSE6_FWF-6.4 Exam

Fortinet NSE 6 - Secure Wireless LAN 6.4

Questions & Answers
Demo

Version: 5.0

Question: 1

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. It uses this information to allow the AP to select the optimum channel.
B. 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.
C. DARRP measurements can be scheduled to occur at specific times.
D. 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..."

Question: 2

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

Explanation:

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.

Answer: A, C

Explanation:

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

Question: 4

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

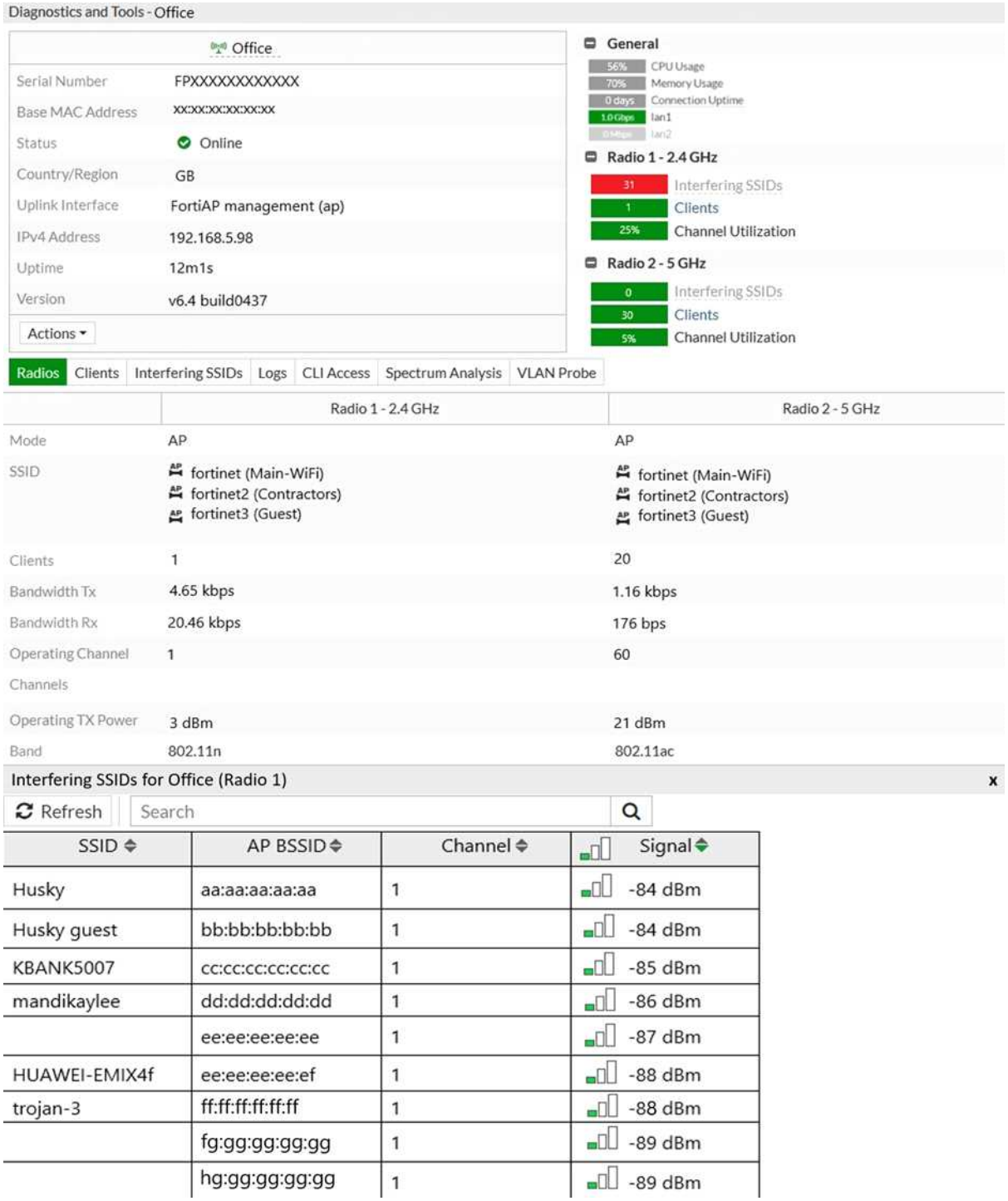
Diagnostics and Tools - Office
Office
Serial Number FPXXXXXXXXXXXX
Base MAC Address xx:xx:xx:xx:xx:xx
Status Online
Country/Region GB
Uplink Interface FortiAP management (ap)
IPv4 Address 192.168.5.98
Uptime 12m1s
Version v6.4 build0437
Actions
General
56% CPU Usage
70% Memory Usage
0 days Connection 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:aa 1 -84 dBm
Husky guest bb:bb:bb:bb:bb:bb 1 -84 dBm
KBANK5007 cc:cc:cc:cc:cc:cc 1 -85 dBm
mandikaylee dd:dd:dd:dd:dd:dd 1 -86 dBm
ee: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 FPXXXXXXXXXXXXX

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 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

Explanation:

Question: 5

Which two statements about background rogue scanning are correct? (Choose two.)

A. A dedicated radio configured for background scanning can support the connection of wireless clients
B. When detecting rogue APs, a dedicated radio configured for background scanning can suppress the rogue AP
C. Background rogue scanning requires DARRP to be enabled on the AP instance
D. A dedicated radio configured for background scanning can detect rogue devices on all other

channels in its configured frequency band

Answer: CD

Explanation:

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