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 Exhibit B

```
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
```

```
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

Correct Answer: A

Best security option is WPA2-AES.

Reference: https://www.esecurityplanet.com/trends/the-best-security-for-wireless-networks/

QUESTION 2

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.

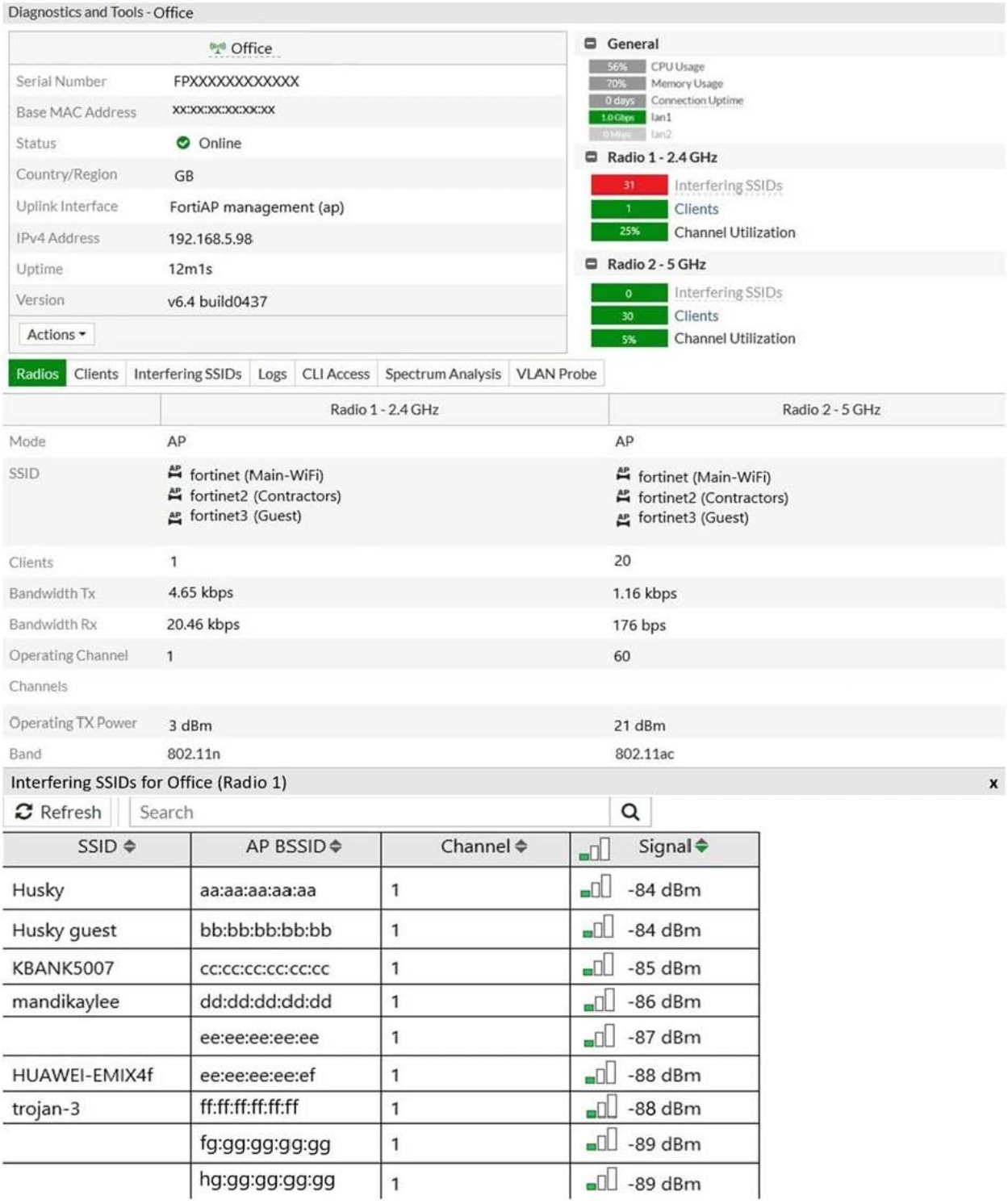

Diagnostics and Tools - Office
Office
Serial Number FPXXXXXXXXXXXX
Base MAC Address xx:xx:xx:xx:xx:xx
Status Online
Country/Region GB
Uplink Interface FortiAP management (ap)
IPv4 Address 192.168.5.98
Uptime 12m1s
Version v6.4 build0437
Actions
General
56% CPU Usage
70% Memory Usage
0 days Connection 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 3

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

Correct Answer: AD

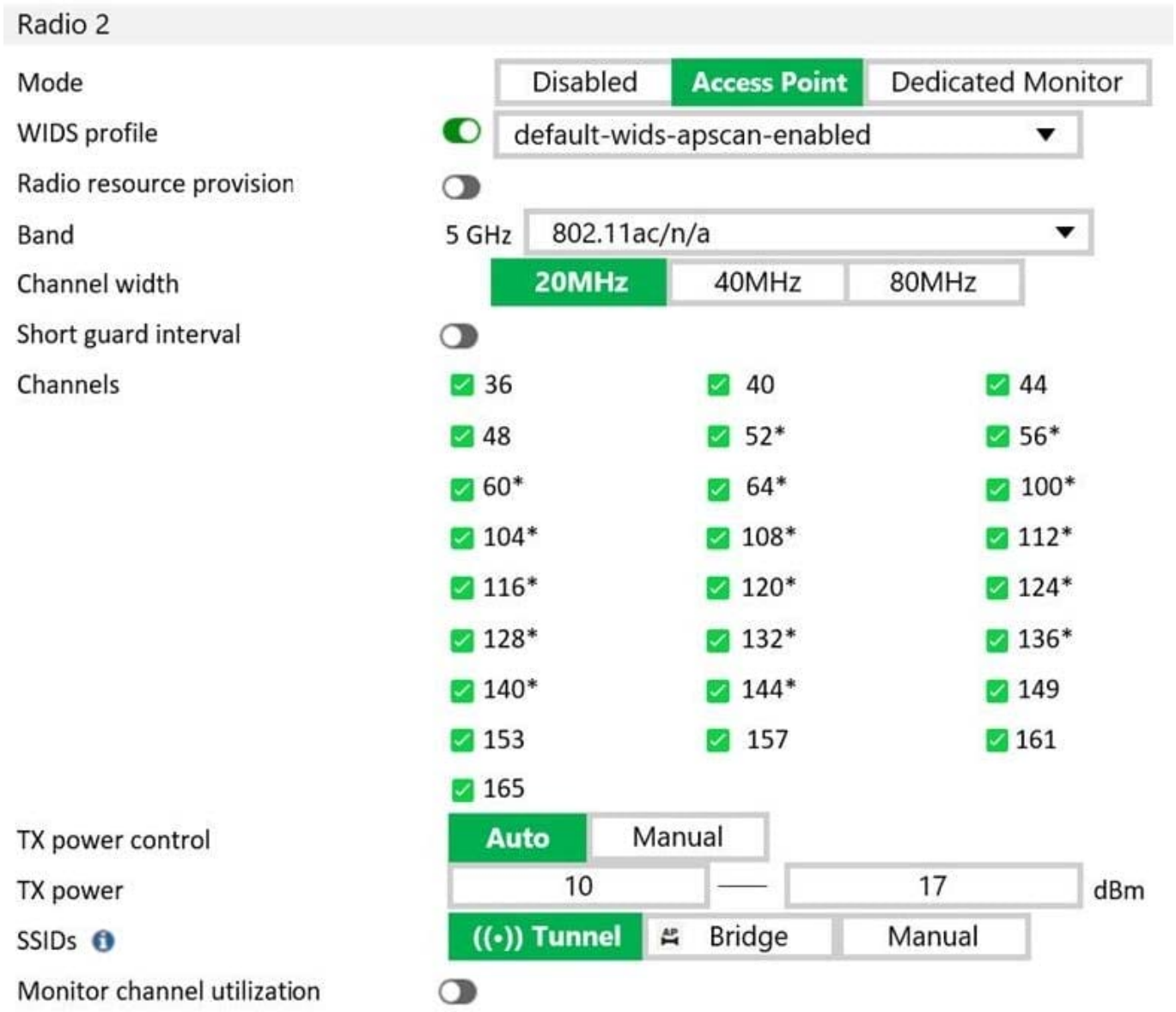
This information along with the social network authentication logins with Facebook, Google, Instagram, LinkedIn, or FortiPresence using your WiFi.

Captive Portal configurations for social media logins and internet access. You can add and manage sites using the integrated Google maps and manoeuvre your hardware infrastructure easily.

Reference: https://fortinetweb.s3.amazonaws.com/docs.fortinet.com/v2/attachments/e126e498-eabb11eb-97f7-00505692583a/FortiPresence-21.3-Administration_Guide.pdf

QUESTION 4

Refer to the exhibit.



What does the asterisk (*) symbol beside the channel mean?

A. Indicates channels that can be used only when Radio Resource Provisioning is enabled

B. Indicates channels that cannot be used because of regulatory channel restrictions

C. Indicates channels that will be scanned by the Wireless Intrusion Detection System (WIDS)

D. Indicates channels that are subject to dynamic frequency selection (DFS) regulations

Correct Answer: A

QUESTION 5

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

Correct Answer: C

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.

Reference: https://docs.fortinet.com/document/fortiap/7.0.1/fortiwifi-and-fortiap-configuration-guide/376326/ configuring-dynamic-user-vlan-assignment