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
    edit "FPXXXXXXXXXXXXXX"
        set admin enable
        set name "Authors AP1"
        set wtp-profile "Authors"
        config radio-1
        end
        config radio-2
        end
    next
    edit "FPXXXXXXXXXXXYYY"
        set admin enable
        set name " Authors AP2"
        set wtp-profile "Authors"
        config radio-1
        end
        config radio-2
        end
    next
    edit "FPXXXXXXXXXXXZZZ"
        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

Correct Answer: BC

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

Correct Answer: B

SSI, or “Received Signal Strength Indicator,” is a measurement of how well your device can hear a signal from an access point or router. It\\'s a value that is useful for determining if you have enough signal to get a good wireless connection. Reference: https://www.metageek.com/training/resources/understanding-rssi.html

QUESTION 3

How can you find upstream and downstream link rates of a wireless client using FortiGate?

A. On the FortiAP CLI, using the cw_diag ksta command

B. On the FortiAP CLI, using the cw_diag -d sta command

C. On the FortiGate GUI, using the WiFi Client monitor

D. On the FortiGate CLI, using the diag wireless-controller wlac -d Sta command

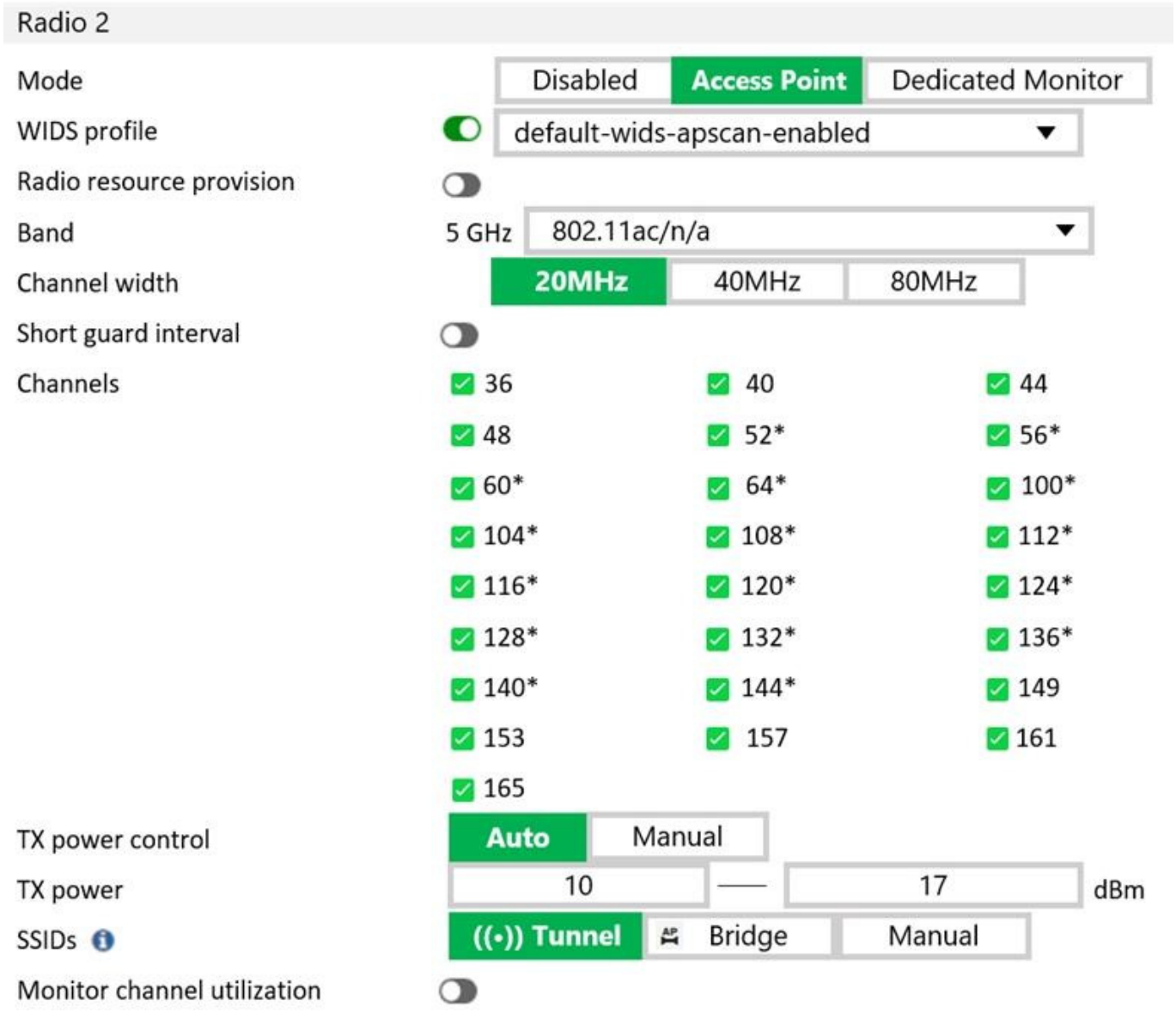
Correct Answer: C

The WiFi Client monitor on the FortiGate GUI shows the upstream and downstream link rates of a wireless client, along with other information such as MAC address, SSID, IP address, signal strength, and connection time. The link rates indicate the maximum data rates that the client can achieve in both directions. References: Secure Wireless LAN

Course Description, page 7; [FortiOS 6.4.0 Handbook - Wireless Controller], page 37.

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

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

Correct Answer: A

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

Correct Answer: CD

Reference: https://www.sciencedirect.com/topics/computer-science/wireless-site-survey https://www.automation.com/en-us/articles/2015-2/wireless-device-network-planning-and-design

QUESTION 7

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

Correct Answer: A

Best security option is WPA2-AES.

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

QUESTION 8

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

QUESTION 9

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

Correct Answer: AD

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

Reference: https://fortinetweb.s3.amazonaws.com/docs.fortinet.com/v2/attachments/ac61f4d3-ce67-11e9-8977-00505692583a/FortiWiFi_and_FortiAP-6.2-Cookbook.pdf

QUESTION 10

What type of design model does FortiPlanner use in wireless design project?

A. Architectural model

B. Predictive model

C. Analytical model

D. Integration model

Correct Answer: A

FortiPlanner will look familiar to anyone who has used architectural or home design software. Reference: http://en.hackdig.com/?7883.htm