DUMPSARENA

# Fortinet NSE 6 - Secure Wireless LAN 6.4

## Fortinet NSE6_FWF-6.4

## Version Demo

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## QUESTION NO: 1

When deploying a wireless network that is authenticated using EAP PEAP, which two configurations are required? (Choose two.)

**A.** An X.509 certificate to authenticate the client

**B.** An X.509 to authenticate the authentication server

**C.** A WPA2 or WPA3 personal wireless network

**D.** A WPA2 or WPA3 Enterprise wireless network

## ANSWER: A B

**Explanation:**

X.509 certificates and work for connections that use Secure Socket Layer/Transport Level Security (SSL/TLS). Both client and server certificates have additional requirements.

Reference: https://docs.microsoft.com/en-us/windows-server/networking/technologies/nps/nps-manage-cert-requirements

## QUESTION NO: 2

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.

Reference: https://fortinetweb.s3.amazonaws.com/docs.fortinet.com/v2/attachments/723e20ad-5098-11e9-94bf-00505692583a/FortiWiFi_and_FortiAP-6.2.0-Configuration_Guide.pdf

## QUESTION NO: 3

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 FPXXXXXXXXXXX
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
CPU Usage
Memory Usage
Connection Uptime
lan1
Radio 1 - 2.4 GHz
Interfering SSIDs
Clients
25%
Channel Utilization
Radio 2 - 5 GHz
Interfering SSIDs
Clients
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: A**

## QUESTION NO: 4

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: A D**

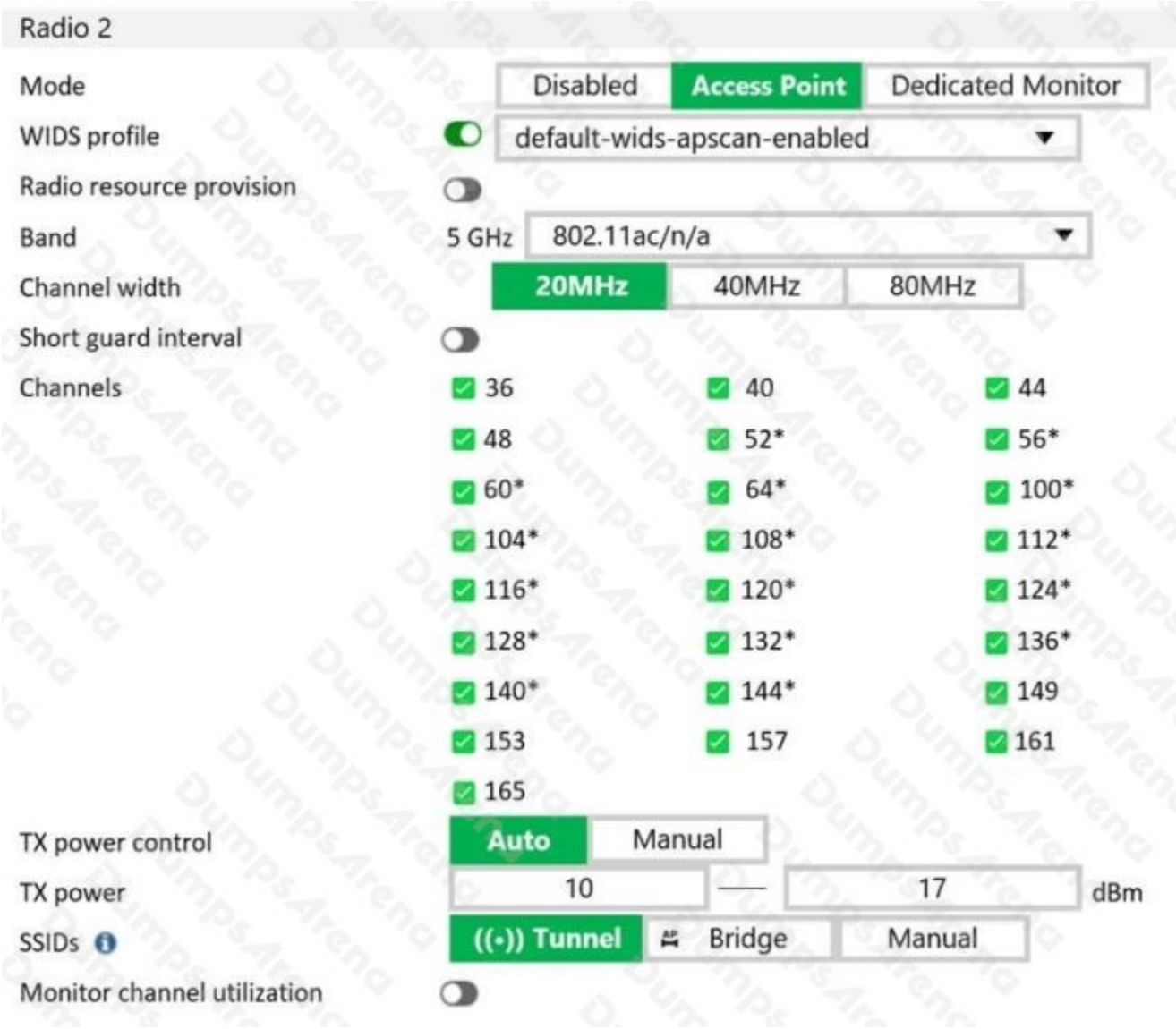
**Explanation:**

The control channel for managing traffic, which is always encrypted by DTLS. I 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 NO: 5**

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

**ANSWER: A**