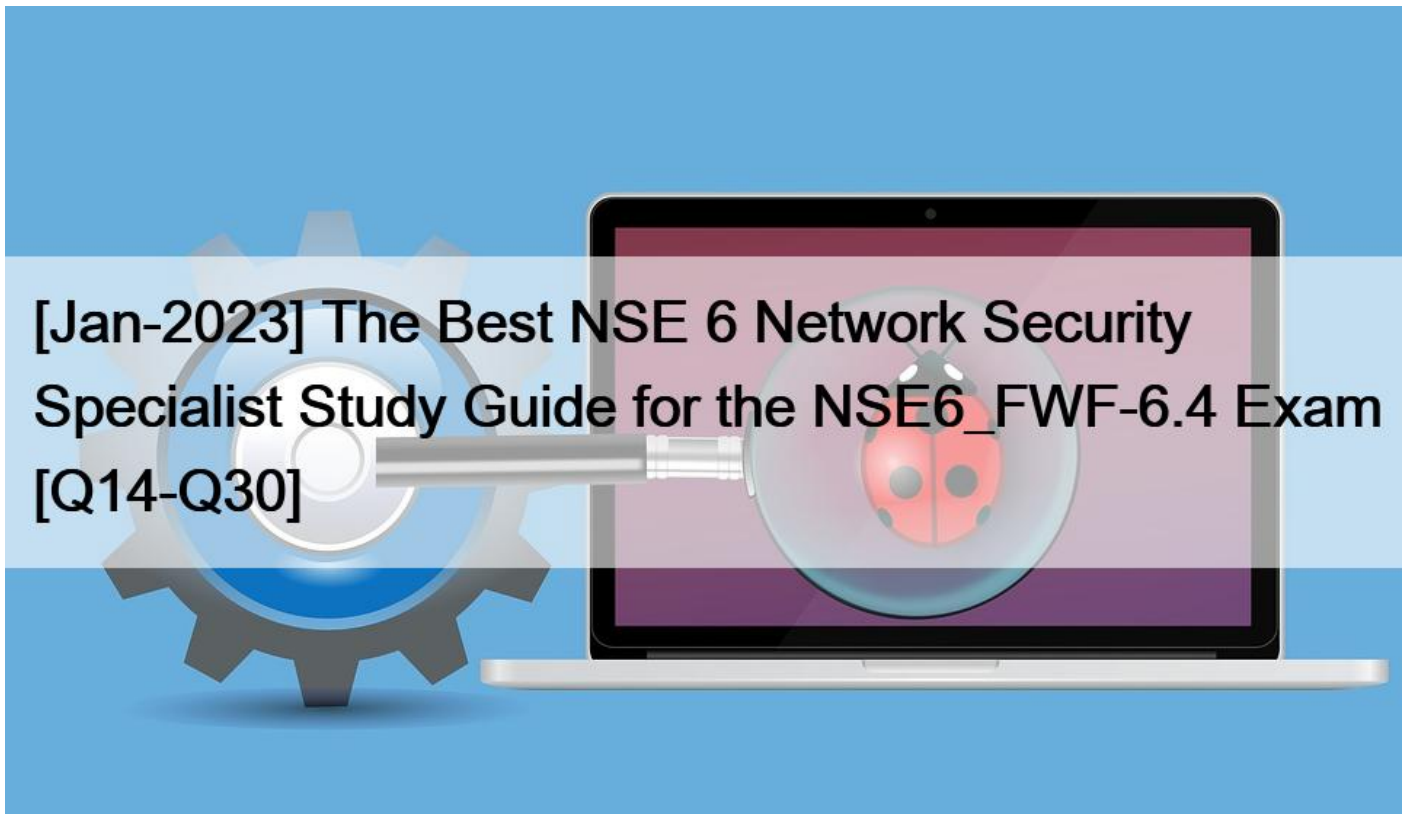# [Jan-2023 The Best NSE 6 Network Security Specialist Study Guide for the NSE6_FWF-6.4 Exam [Q14-Q30

[Jan-2023] The Best NSE 6 Network Security Specialist Study Guide for the NSE6_FWF-6.4 Exam
NSE6_FWF-6.4 certification guide Q&A from Training Expert Actualtests4sure NEW QUESTION 14

What is the first discovery method used by FortiAP to locate the FortiGate wireless controller in the default configuration?
* DHCP
* Static
* Broadcast
* Multicast

NEW QUESTION 15

Which two statements about distributed automatic radio resource provisioning (DARRP) are correct? (Choose two.)
* DARRP performs continuous spectrum analysis to detect sources of interference. It uses this information to allow the AP to select the optimum channel.
* 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.
* DARRP measurements can be scheduled to occur at specific times.
* DARRP requires that wireless intrusion detection (WIDS) be enabled to detect neighboring devices.
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…”

NEW QUESTION 16

Where in the controller interface can you find a wireless client’s upstream and downstream link rates?
* On the AP CLI, using the cw_diag ksta command
* On the controller CLI, using the diag wireless-controller wlac -d sta command
* On the AP CLI, using the cw_diag -d sta command
* On the controller CLI, using the WiFi Client monitor

NEW QUESTION 17

As standard best practice, which configuration should be performed before configuring FortiAPs using a FortiGate wireless controller?
* Create wireless LAN specific policies
* Preauthorize APs
* Create a custom AP profile
* Set the wireless controller country setting

NEW QUESTION 18

Refer to the exhibits.

Exhibit A


```
config wireless-controller wtp
    edit "FPXXXXXXXXXXXXX"
        set admin enable
        set name "Authors AP1"
        set wtp-profile "Authors"
        config radio-1
        end
        config radio-2
        end
    next
    edit "FPXXXXXXXXXXXXXX"
        set admin enable
        set name " Authors AP2"
        set wtp-profile "Authors"
        config radio-1
        end
        config radio-2
        end
    next
    edit "FPXXXXXXXXXXXXZZZ"
        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.)

* For both interfaces in the wtp-profile, configure set vaps to be “Authors”
* Disable intra-vap-privacy for the Authors vap-wireless network
* For both interfaces in the wtp-profile, configure vap-all to be manual
* Increase the transmission power of the AP radio interfaces

NEW QUESTION 19

Which two statements about distributed automatic radio resource provisioning (DARRP) are correct? (Choose two.)

* DARRP performs continuous spectrum analysis to detect sources of interference. It uses this information to allow the AP to select the optimum channel.

* 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.

* DARRP measurements can be scheduled to occur at specific times.

* DARRP requires that wireless intrusion detection (WIDS) be enabled to detect neighboring devices.

DARRP (Distributed Automatic Radio Resource Provisioning) technology ensures the wireless infrastructure is always optimized to deliver maximum performance. Fortinet APs enabled with this advanced feature continuously monitor the RF environment for interference, noise and signals from neighboring APs, enabling the FortiGate WLAN Controller to determine the optimal RF power levels for each AP on the network. When a new AP is provisioned, DARRP also ensures that it chooses the optimal channel, without administrator intervention.

NEW QUESTION 20

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
0 Mbps	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	.65 kbps	1.16 kbps
Bandwidth Rx	2.46 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) ✕

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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   interfer-ap   chan-utilization
       1         100          6           13           13            63%
       2          23         10            8           22            47%
       3          15         10            0           22            15%
       4          24          1            0           22            15%
       5          51         10            0           22            41%
       6          22          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?
* Increase the transmission power of the AP radios
* Enable frequency handoff on the AP to band steer clients
* Reduce the number of wireless networks being broadcast by the AP
* Install another AP in the reception area to improve available bandwidth

NEW QUESTION 21

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.)
* AP Manager
* FortiAP Cloud
* FortiSwitch
* FortiGate
FortiGate, FortiCloud wireless access points (send visitor data in the form of station reports directly to FortiPresence)

NEW QUESTION 22

Refer to the exhibits.

Exhibit A

```
config wireless-controller wtp
    edit "FPXXXXXXXXXXXXX"
        set admin enable
        set name "Authors AP1"
        set wtp-profile "Authors"
        config radio-1
        end
        config radio-2
        end
    next
    edit "FPXXXXXXXXXXXXX"
        set admin enable
        set name " Authors AP2"
        set wtp-profile "Authors"
        config radio-1
        end
        config radio-2
        end
    next
    edit "FPXXXXXXXXXXXXZZZ"
        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"
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            set auto-power-low 1
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        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
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            set vap-all tunnel
            set channel "1" "6" "11"
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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
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        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.)

* For both interfaces in the wtp-profile, configure set vaps to be “Authors”
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* For both interfaces in the wtp-profile, configure vap-all to be manual
* Increase the transmission power of the AP radio interfaces

NEW QUESTION 23

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?
* Enable Locate WiFi clients when not connected in the relevant AP profiles.
* Enable Monitor channel utilization on the relevant AP profiles.
* Ensure that all allowed channels are enabled for the AP radios.
* Enable Radio resource provisioning on the relevant AP profiles.
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.

NEW QUESTION 24

What is the first discovery method used by FortiAP to locate the FortiGate wireless controller in the default configuration?
* DHCP
* Static
* Broadcast
* Multicast

NEW QUESTION 25

As standard best practice, which configuration should be performed before configuring FortiAPs using a FortiGate wireless controller?
* Create wireless LAN specific policies
* Preauthorize APs
* Create a custom AP profile
* Set the wireless controller country setting

NEW QUESTION 26

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
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            set power-level 50
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            set darrp enable
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"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

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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
0 Mbps	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	.65 kbps	1.16 kbps
Bandwidth Rx	2.46 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) x

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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

```
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WTP: Office 0-192.168.5.98:5246

    channel    rssi-total    rf-score    overlap-ap    interfere-ap    chan-utilization
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       3           15           10            9             22               15%
       4           24           10            0             22               15%
       5           51           10            0             22               41%
       6           22            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%
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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.

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* Reduce the number of wireless networks being broadcast by the AP
* Install another AP in the reception area to improve available bandwidth

NEW QUESTION 27

Where in the controller interface can you find a wireless client’s upstream and downstream link rates?
* On the AP CLI, using the cw_diag ksta command
* On the controller CLI, using the diag wireless-controller wlac -d sta command
* On the AP CLI, using the cw_diag -d sta command
* On the controller CLI, using the WiFi Client monitor

NEW QUESTION 28

Which two phases are part of the process to plan a wireless design project? (Choose two.)
* Project information phase
* Hardware selection phase
* Site survey phase

* Installation phase
Reference:

https://www.automation.com/en-us/articles/2015-2/wireless-device-network-planning-and-design

NEW QUESTION 29

Which two statements about background rogue scanning are correct? (Choose two.)
* A dedicated radio configured for background scanning can support the connection of wireless clients
* When detecting rogue APs, a dedicated radio configured for background scanning can suppress the rogue AP
* Background rogue scanning requires DARRP to be enabled on the AP instance
* A dedicated radio configured for background scanning can detect rogue devices on all other channels in its configured frequency band
To enable rogue AP scanning

NEW QUESTION 30

Which of the following is a requirement to generate analytic reports using on-site FortiPresence deployment?
* SQL services must be running
* Two wireless APs must be sending data
* DTLS encryption on wireless traffic must be turned off
* Wireless network security must be set to open
FortiPresence VM is deployed locally on your site and consists of two virtual machines. All the analytics data collected and computed resides locally on the VMs.

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https://www.actualtests4sure.com/NSE6_FWF-6.4-test-questions.html]