

NSE6_FWF-6.4^{Q&As}

Fortinet NSE 6 - Secure Wireless LAN 6.4

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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.

Correct Answer: AD

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.

Reference: http://www.corex.at/Produktinfos/FortiOS_Wireless.pdf

QUESTION 2

Which statement describes FortiPresence location map functionality?

- A. Provides real-time insight into user movements
- B. Provides real-time insight into user online activity
- C. Provides real-time insight into user purchase activity
- D. Provides real-time insight into user usage stats

Correct Answer: D

This geographical data analysis provides real-time insights into user behavior.

Reference: <https://fortinetweb.s3.amazonaws.com/docs.fortinet.com/v2/attachments/05d8bae1-5f3c-11e981a4-00505692583a/FortiPresence-v2.0.1-getting-started.pdf>

QUESTION 3

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 4

Six APs are located in a remotely based branch office and are managed by a centrally hosted FortiGate. Multiple wireless users frequently connect and roam between the APs in the remote office.

The network they connect to, is secured with WPA2-PSK. As currently configured, the WAN connection between the branch office and the centrally hosted FortiGate is unreliable.

Which configuration would enable the most reliable wireless connectivity for the remote clients?

A. Configure a tunnel mode wireless network and enable split tunneling to the local network

B. Configure a bridge mode wireless network and enable the Local standalone configuration option

C. Configure a bridge mode wireless network and enable the Local authentication configuration option

D. Install supported FortiAP and configure a bridge mode wireless network

Correct Answer: A

QUESTION 5

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

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	<ul style="list-style-type: none"> fortinet (Main-WiFi) fortinet2 (Contractors) fortinet3 (Guest) 	<ul style="list-style-type: none"> 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) x

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	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	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 FPXXXXXXXXXXXXXXXXX  
  
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

Correct Answer: A