

Fortinet

FCP_FWF_AD-7.4

FCP - Secure Wireless LAN 7.4 Administrator

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Question: 1

Two APs are located in a shop that is required to support forty 2.4 GHz point-of-sale wireless devices. The APs are managed by a centrally hosted FortiGate. A previous wireless network administrator has enabled client load balancing between APs.

However, the clients are not balancing well between the APs, causing overloading on one of the AP radios. Refer to the exhibit, which is part of the configuration of the AP profile that is used for the APs.

```
# show full-configuration wireless-controller wtp-profile
Shop
config wireless-controller wtp-profile
  edit "Shop"
    set comment "Profile with standard networks"
    config platform
      set type 320C
    end
    set dtls-policy clear-text
    set max-clients 0
    set handoff-rssi 30
    set handoff-sta-thresh 10
    set handoff-roaming enable
    set ap-country GB
    set ip-fragment-preventing tcp-rss-adjust
    config radio-1
      set mode ap
      set band 802.11n,g-only
      set protection-mode disable
      unset powersave-optimize
      set msdu enable
      set coexistence enable
      set short-guard-interval disable
      set channel-bonding 20MHz
      set auto-power-level disable
      set channel-utilization enable
      set spectrum-analysis disable
      set wids-profile "default-wids-apacan-enabled"
      set darrp enable
      set max-clients 0
      set max-distance 0
      set frequency-handoff disable
      set ap-handoff enable
      set channel "1" "6" "11"
      set vap-all disable
      set vaps "FGS"
      set call-admission-control disable
    end
    config radio-2
      set mode ap
      set band 802.11ac
      unset powersave-optimize
      set short-guard-interval disable
      set channel-bonding 40MHz
      set auto-power-level disable
      set power-level 100
    end
  end
end
set dtim 1
set wids-profile "default-wids-apacan-enabled"
set darrp enable
set max-clients 0
set max-distance 0
set frequency-handoff disable
set ap-handoff enable
set vap-all disable
set vaps "FGS"
set channel "36" "44" "52"
set call-admission-control disable
```

The first AP has 35 clients associated with it, the second has five clients associated with it. The detected noise floor of the network is -91dBm. The channel utilization for both 2.4 GHz interfaces is less than 40%. The clients have a detected signal strength of between -53 and -71 dBm.

Which configuration change would improve the distribution of wireless clients between the APs?

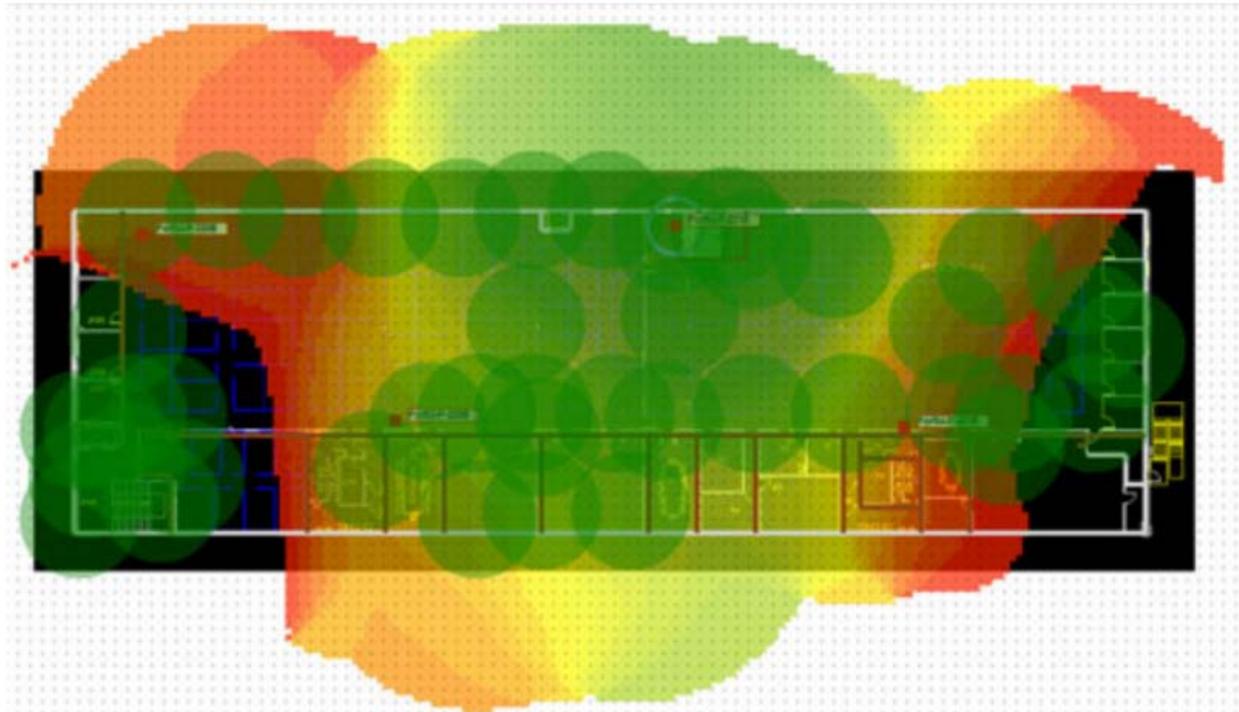
Response:

- A. Manually configure 2.4GHz interfaces of both APs to separate channels.
- B. Increase the handoff-sta-thresh option to 20.
- C. Set the max-clients option to 20.
- D. Decrease the handoff-rssi option to 20.

Answer: D

Question: 2

Refer to the exhibit.



If the signal is set to -68 dB on the FortiPlanner site survey reading, which statement is correct regarding the coverage area?

Response:

- A. Areas with the signal strength equal to -68 dB are zoomed in to provide better visibility
- B. Areas with the signal strength weaker than -68 dB are cut out of the map
- C. Areas with the signal strength weaker than -68 dB are highlighted in orange and red to indicate that no signal was propagated by the APs.
- D. Areas with the signal strength equal or stronger than -68 dB are highlighted in multicolor

Answer: C

Question: 3

If an organization wants to provide temporary network access for visitors, which feature would be most suitable?

Response:

- A. VLANs on SSIDs
- B. FortiAP load balancing
- C. FortiGate guest management feature
- D. Advanced bridge mode options

Answer: C

Question: 4

To achieve centralized management of multiple FortiAP devices, one would most likely use:
Response:

- A. FortiPlanner
- B. FortiGate integrated wireless controller
- C. FortiPresence analytics
- D. Directly via each FortiAP's web interface

Answer: B

Question: 5

Which factor is the best indicator of wireless client connection quality?
Response:

- A. Upstream link rate, the connection rate for the client to the AP
- B. The receive signal strength (RSS) of the client at the AP
- C. Downstream link rate, the connection rate for the AP to the client
- D. The channel utilization of the channel the client is using

Answer: A

Question: 6

When configuring Auto TX Power control on an AP radio, which two statements best describe how the radio responds?

(Choose two.)

Response:

- A. When the AP detects PF Interference from an unknown source such as a cordless phone with a signal stronger than -70 dBm, it will increase its transmission power until it reaches the maximum configured TX power limit.

- B. When the AP detects any wireless client signal weaker than -70 dBm, it will reduce its transmission power until it reaches the maximum configured TX power limit.
- C. When the AP detects any interference from a trusted neighboring AP stronger than -70 dBm, it will reduce its transmission power until it reaches the minimum configured TX power limit.
- D. When the AP detects any other wireless signal stronger than -70 dBm, it will reduce its transmission power until it reaches the minimum configured TX power limit.

Answer: C,D

Question: 7

Which command is used to monitor wireless client traffic on a FortiGate device?
Response:

- A. diagnose wireless-controller wlac -d Sta
- B. get system wireless client
- C. execute wireless-controller client-status
- D. monitor wifi-client traffic

Answer: A

Question: 8

The suppression of rogue APs is essential because:
Response:

- A. It helps in allocating IP addresses efficiently.
- B. It prevents Wi-Fi signal interference.
- C. It ensures authorized APs get more bandwidth.
- D. It aids in stopping potential security threats.

Answer: D

Question: 9

A wireless station successfully connects to a wireless network and fails to communicate with other devices on the network or access the internet. As an administrator, what two pieces of information must you collect to troubleshoot the issue?

(Choose two.)

Response:

- A. Confirm that the wireless client is compatible with FortiAP technology.

- B. Monitor whether the wireless network is experiencing high-level noise or distortion.
- C. Check the wireless station signal status with FortiAP.
- D. Verify whether the DHCP scope has an available IP address to assign.

Answer: C,D

Question: 10

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? Response:

- 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 authentication configuration option
- C. Configure a bridge mode wireless network and enable the Local standalone configuration option
- D. Install supported FortiAP and configure a bridge mode wireless network

Answer: A

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