Lab Report

Your Performance

Your Score: 4 of 5 (80%)
Pass Status: Not Passed
Elapsed Time: 6 minutes 34 seconds
Required Score: 100%

Task Summary

- ✓ Configure Self Healing Hide Details
  - Automatically adjust AP radio power
  - Use Background Scanning on 2.4GHz channels
  - Use Background Scanning on 5GHz channels
- ✓ Configure Background Scanning Hide Details
  - Run a background scan every 30 seconds on the 2.4GHz radio
  - Run a background scan every 30 seconds on the 2.4GHz radio
- ✓ Configure Load Balancing Hide Details
  - Run load balancing on the 2.4GHz radio with a 40dB threshold
  - Run load balancing on the 5GHz radio with a 40dB threshold
- ✓ Configure Band Balancing for 30% on 2.4GHz
- ✗ Adjust the AP Power Level Hide Details
  - Reduce 2.4GHz Radio Transmit power in Center AP by 1 to 3db
  - Reduce 5GHz Radio Transmit power in Center AP by 1 to 3db
  - Reduce 2.4GHz Radio Transmit power in East AP by 1 to 3db
  - Reduce 5GHz Radio Transmit power in East AP by 1 to 3db
  - Reduce 2.4GHz Radio Transmit power in West AP by 1 to 3db
  - Reduce 5GHz Radio Transmit power in West AP by 1 to 3db

Explanation

In this lab, you perform the following:

- Configure self healing on the wireless network.
  - Automatically adjust AP radio power to optimize coverage when interference is present.
  - Set 2.4GHz and 5GHz radio channels to use the **Background Scanning** method to adjust for interference.
- Configure background scanning necessary for rogue device detection, AP locationing, and self healing. Background scans should be performed on all radios every **30 seconds**.
- Configure load balancing for all radios by adjusting the threshold to **40dB**.
- Configure band balancing to allow no more than **30%** of clients to use the 2.4GHz radios.
- Reduce the power levels to **-3dB** for three access points in Building A to reduce RF emanations. Use the wireless survey results in the exhibit to identify the access points.

Configure your wireless access points as follows:

1. Configure Self Healing as follows:
   a. From the top, select the **Configure** tab.
   b. From the left menu, select **Services**.

c. Select **Automatically adjust AP radio power to optimize coverage when interference is present**.
d. Under Automatically adjust 2.4GHz channels using, select **Background Scanning** from the drop-down menu.
e. Under Automatically adjust 5GHz channels using, select **Background Scanning** from the drop-down menu.
f. On the right, click **Apply**.

2. Configure Background Scanning as follows:
   - Select **Run a background scan on 2.4GHz radio**.
   - Enter **30** seconds.
   - Select **Run a background scan on 5GHz radio**.
   - Enter **30** seconds.
   - On the right, click **Apply**.
3. Configure Load Balancing as follows:
   - Select **Run load balancing on 2.4GHz radio**.
   - In the Adjacent radio threshold(dB) field, enter **40**.
   - Select **Run load balancing on 5GHz radio**.
   - In the Adjacent radio threshold(dB) field, enter **40**.
   - On the right, select **Apply**.
4. Configure Band Balancing as follows:
   a. Select **Percent of clients on 2.4GHz radio**.
   b. Enter the ***percentage***.
   c. On the right, click **Apply**.
5. Adjust the AP Power Level as follows:
   a. From the left menu, select **Access Points**.
   b. From the top right, select **Exhibit** to determine which access points to adjust.
   c. Select **Edit** next to the access point to be modified.
   d. Under Radio B/G/N(2.4G) next to TX Power, make sure **Override Group Config** is selected.
   e. From the TX Power drop-down list, select **-3dB (1/2)**.
   f. Under Radio A/N/AC(5G) next to TX Power, make sure **Override Group Config** is selected.
   g. From the TX Power drop-down list, select **-3dB (1/2)**.
   h. Click **OK**.
   i. Repeat steps 6b - 6f for additional access points.