**TASKS**

**VLAN (Create vlan 10, 20, 30, 100 on all devices)**

**NOTE**: vlan 10 is marketing vlan. vlan 20 is finance vlan. vlan 30 is guest vlan. vlan 100 is AC management vlan.

**AC1**

int g0/0/1 vl 10 20 30 100

**AC2**

int g0/0/1 vl 10 20 30 100

**SW1**

int g0/0/1 vl 10 20 30 100

int g0/0/2 vl 10 20 30 100

int g0/0/3 vl 10 100 pvid is 100

int g0/0/4 vl 10 20 30 100

**SW2**

int g0/0/1 vl 10 20 30 100

int g0/0/2 vl 10 20 30 100

int g0/0/3 vl 20 100 pvid is 100

**SW3**

int g0/0/1 vl 10 20 30 100

int g0/0/3 vl 30 100 pvid is 100

**IP address**

**AC1**

vlan 10: 192.168.10.1

vlan 20: 192.168.20.1

vlan 30: 192.168.30.1

vlan 100: 192.168.100.1 (management vlan)

**AC2**

vlan 10: 192.168.10.2

vlan 20: 192.168.20.2

vlan 30: 192.168.30.2

vlan 100: 192.168.100.2 (management vlan)

**SW1**

vlan 10: 192.168.10.254

vlan 20: 192.168.20.254

vlan 30: 192.168.30.254

vlan 100: 192.168.100.254

**DHCP server is SW1**

Configure 4 global dhcp pools to assign address to the Marketing, Finance, Guest, and Management vlan

The management vlan controls the Aps (The option 43 ip addresses specified should be the vrrp address of ACs)

pool names should be Marketing, Finance, Guest

Excluded address should be the 1st and 2nd address in the pool (Example, excluded address in marketing pool is 192.168.10.1 and 192.168.10.2)

**Configure vrrp for the ACs**

vrrp vrid is 100 virtual ip is 192.168.100.100

**CAPWAP source interface: vrrp virtual ip (192.168.100.100)**

All templates should use the vlan name (Example security template for guest vlan should be named “guest”)

ap group name is “company”

country code is NG

regulatory domain profile is “company”

Security for finance uses wpa2 psk aes-tkip (Password is Finance@2022)

Security for marketing uses wpa psk aes (Password is Marketing@2022)

Security for guest is open

**VAP profile**

forwarding mode is direct forwarding

service vlan depends on the vlan (Example service vlan in the marketing vap should be **10**)

IP address and port of hot standby for **AC1: 192.168.100.1 10241**

IP address and port of hot standby for **AC2: 192.168.100.2 10241**