

WPA-PSK Configuration of Cisco 1130 Autonomous Access Point

Objective 1 : Setting Up the Access Point Base Configuration

Step 1

Define the hostname for the access point. In this scenario, we will configure this access point hostname as “**Ap**”

```
Ap#configure terminal
```

```
Ap(config)# hostname Ap
```

Step 2

Define the local username and password for access point level 15 management. In this scenario, we will use the username of “**admin**” and the password of “**password**”.

```
Ap(config)# username admin privilege 15 password password
```

Objective 2 : Configuring Access Point Radio Interface

Activate access point radio interface, define the SSID, encryption mode and specify VLAN number to be bind with the encryption mode. In this scenario, we will use “MyWireless” as the SSID and VLAN 1.

```
Ap(config)# interface Dot11Radio0
```

```
Ap(config-if)# no shutdown
```

```
Ap(config-if)# encryption mode ciphers tkip
```

```
Ap(config-if)# encryption vlan 1 mode ciphers tkip
```

```
Ap(config-if)# ssid MyWireless
```

Configuring Access Point in Global Configuration Mode

Create SSID in global configuration mode and attached it to the radio interface. Input the command below to allow access point to broadcast SSID with WPA Pre-shared key of “abcd1234”

```
Ap(config)# dot11 ssid MyWireless
```

```
Ap(config-ssid)# vlan 1
```

```
Ap(config-ssid)# authentication open
```

```
Ap(config-ssid)# authentication key-management wpa
```

```
Ap(config-ssid)# guest-mode
```

```
Ap(config-ssid)# wpa-psk ascii abcd1234
```

Objective 4 : Configuring Radio Sub-Interface to Bind with Bridge Interface

Configure radio sub-interface to associate with bridge virtual interface. Enable encapsulation dot1q to bind with VLAN number.

```
Ap(config)# interface Dot11Radio0.1
```

```
Ap(config-subif)# encapsulation dot1Q 1 native
```

```
Ap(config-subif)# bridge-group 1
```

Objective 5 :Configuring IP Address for Bridge Virtual Interface

Assign IP address for bridge virtual interface. In this scenario, we will use the IP address of 192.168.1.10 /24 . Configure the default gateway IP address of 192.168.1.1 /24

```
Ap(config)# interface bvi 1
```

```
Ap(config-if)# ip address 192.168.1.10 255.255.255.0
```

```
Ap(config)# ip default-gateway 192.168.1.1
```

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