Quick Wireless Setup On FreeBSD

REVISION HISTORY

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1 Introduction

Setting up wireless networking on FreeBSD is not as complex as in the past. Here's the short form. The examples that follow show a RealTek wireless device using the *urtw*(4) driver.

2 Setup For Automatic Wireless Connection

If needed, load driver modules in /boot/loader.conf.

```
if_urtw_load="YES"
```

Create /etc/wpa_supplicant.conf with SSID and PSK.

```
network={
          ssid="myssid"
          psk="myultrasecretkey"
}
```

Modify /etc/rc.conf to create wlan0 and connect:

```
wlans_urtw0="wlan0"
ifconfig_wlan0="WPA SYNCDHCP"
```

On startup, FreeBSD will automatically connect.

That's it, pretty much all you need. Stop here unless you want to manually start a wireless connection.

3 Command Line Manual Method

- If your wireless card driver isn't built into the *GENERIC* kernel, or you use a custom kernel without it, the driver module must be loaded first. Some devices also need firmware modules, usually provided by a port. See the man page for your device.
- 2 Create a generic wireless device for the wireless network code to use.
- Run wpa_supplicant(8) to associate to an access point defined in /etc/wpa_supplicant.conf.
- Get an IP address and DNS servers.

4 More Detail

The FreeBSD Handbook chapter on wireless networking.

A Things To Use Or Avoid

WEP is insecure, avoid it. WPA2 is much better, use it. If you have old equipment that doesn't support WPA, smash it with a hammer or other convenient blunt instrument.

TKIP has some flaws. Use AES.

"Hidden" SSIDs are not really hidden. They make network setup more difficult and provide no real security benefits.