

Chapter 1

Debian 下使用 hostapd 启用 tenda w311m 无线网卡的 AP 功能

步骤: 1, 使用 rt2870.bin 作为无线网卡的驱动, 拷贝到 /lib/firmware 此时, 使用 ifconfig 查看, 应该能看到 wlan0

驱动文件名称: 2011_0719_RT3070_RT3370_RT5370_RT5372_Linux_STA_V2.5.0.3_-DPO.bz2 解压后, 从 common 目录下可以找到 rt2870.bin

2, 安装 hostapd

```
1 $ sudo apt-get install hostapd
```

3, 配置 hostapd

```
1 $ sudo vim /etc/hostapd/hostapd.conf
```

配置文件内容如下:

```
1 interface=wlan0
2 driver=nl80211
3 ssid=wifi_508
4 logger_syslog=-1
5 logger_syslog_level=2
6 logger_stdout=-1
7 logger_stdout_level=2
8 ctrl_interface=/var/run/hostapd
9 ctrl_interface_group=0
10 hw_mode=g
11 channel=11
12 beacon_int=100
13 dtim_period=2
14 max_num_sta=255
15 rts_threshold=2347
16 fragm_threshold=2346
17 macaddr_acl=0
18 auth_algs=3
19 ignore_broadcast_ssid=0
```

```

20 wpa=2
21 wpa_passphrase=81081879
22 wpa_key_mgmt=WPA-PSK
23 wpa_pairwise=TKIP CCMP
24 rsn_pairwise=TKIP CCMP

```

4, 启动 hostapd 服务

```
1 $ sudo /usr/sbin/hostapd -dd /etc/hostapd/hostapd.conf
```

5, 安装配置 dhcp server 另外一个终端窗口

```

1 $ sudo apt-get install isc-dhcp-server
2 $ sudo vim /etc/default/isc-dhcp-server

```

修改如下

```
1 INTERFACES=" wlan0 "
```

```
1 $ sudo vim /etc/dhcp/dhcpd.conf
```

增加以下配置

```

1 subnet 192.168.6.0 netmask 255.255.255.0 {
2   range 192.168.6.30 192.168.6.50;
3   option routers 192.168.6.1; //wlan0 ip address
4   option domain-name-servers 127.0.0.1, 1.1.1.1, 8.8.8.8;
5   default-lease-time 600;
6   max-lease-time 7200;
7 }

```

6, 配置 wlan0

```
1 $ sudo ifconfig wlan0 192.168.6.1 netmask 255.255.255.0
```

直接在/etc/network/interfaces 中修改似乎不行

```

1 auto wlan0
2 iface wlan0 inet static
3 address 192.168.6.1
4 netmask 255.255.255.0
5 broadcast 192.168.6.255

```

7, 启动 dhcp server

```
1 $ sudo service isc-dhcp-server restart
```

8, 本机开启路由

```
1 $ sudo echo 1 >/proc/sys/net/ipv4/ip_forward
```

9, 增加一条 iptable 规则

```
1 $ sudo iptables -t nat -A POSTROUTING -o eth0 -j MASQUERADE //eth0 为上网接口
```