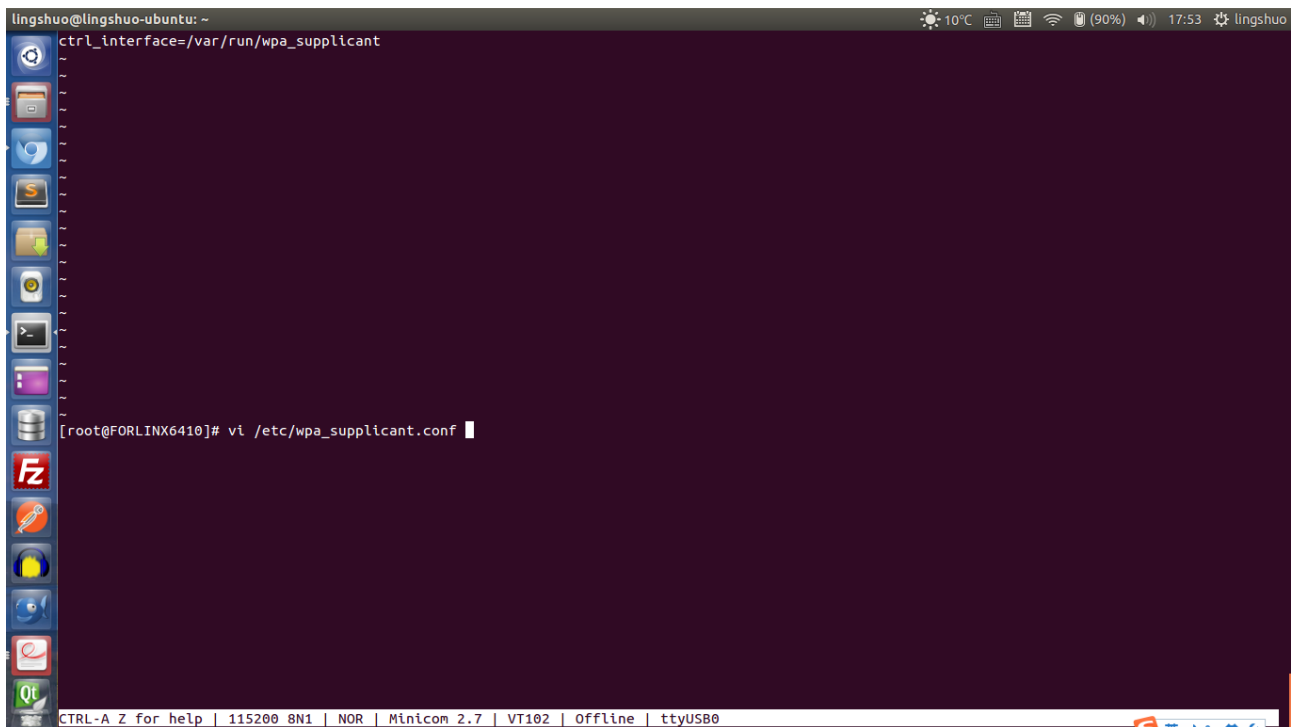


Report of testing the Wifi module

by the group 2.

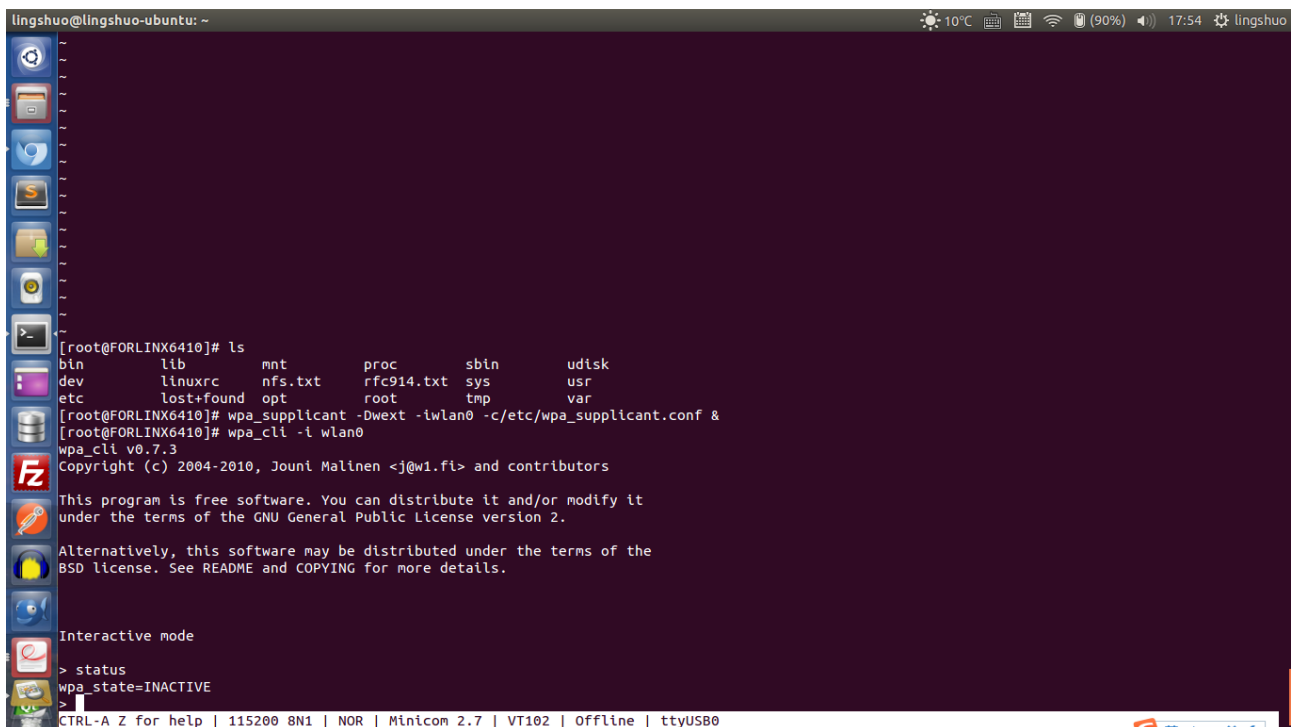
1.modify the file /var/run/wpa_supplicant

```
lingshuo@lingshuo-ubuntu: ~  
ctrl_interface=/var/run/wpa_supplicant  
  
[root@FORLINUX6410]# vi /etc/wpa_supplicant.conf
```



2.use the file to start the wpa_cli of wlan0

```
lingshuo@lingshuo-ubuntu: ~  
  
[root@FORLINUX6410]# ls  
bin      lib      mnt      proc      sbin      udisk  
dev      linuxrc  nfs.txt  rfc914.txt sys      usr  
etc      lost+found opt      root      tmp      var  
  
[root@FORLINUX6410]# wpa_supplicant -Dwext -i wlan0 -c/etc/wpa_supplicant.conf &  
[root@FORLINUX6410]# wpa_cli -i wlan0  
wpa_cli v0.7.3  
Copyright (c) 2004-2010, Jouni Malinen <j@w1.fi> and contributors  
  
This program is free software. You can distribute it and/or modify it  
under the terms of the GNU General Public License version 2.  
  
Alternatively, this software may be distributed under the terms of the  
BSD license. See README and COPYING for more details.  
  
Interactive mode  
> status  
wpa_state=INACTIVE  
>
```



3.I created a wireless AP named myAP by my mobile phone.Then I set the wifi to

connect to the AP.

```
lingshuo@lingshuo-ubuntu: ~  
[root@FORLINUX6410]# wpa_cli -i wlan0  
wpa_cli v0.7.3  
Copyright (c) 2004-2010, Jouni Malinen <j@w1.fi> and contributors  
  
This program is free software. You can distribute it and/or modify it  
under the terms of the GNU General Public License version 2.  
  
Alternatively, this software may be distributed under the terms of the  
BSD license. See README and COPYING for more details.  
  
Interactive mode  
  
> status  
wpa_state=INACTIVE  
> list  
network id / ssid / bssid / flags  
> add_network  
0  
> set_network 0 ssid "myAP"  
OK  
> set_network 0 key_mgmt WPA-PSK  
OK  
> set_network 0 psk "qwertyuiop"  
OK  
> list  
network id / ssid / bssid / flags  
0 myAP any [DISABLED]  
> enable_network 0  
OK  
> Trying to associate with 84:db:ac:af:99:a4 (SSID='myAP' freq=2462 MHz)  
Associated with 84:db:ac:af:99:a4  
WPA: Key negotiation completed with 84:db:ac:af:99:a4 [PTK=CCMP GTK=CCMP]  
CTRL-EVENT-CONNECTED - Connection to 84:db:ac:af:99:a4 completed (auth) [id=0 id_str=]  
<2>CTRL-EVENT-BSS-ADDED 0 84:db:ac:af:99:a4  
<2>CTRL-EVENT-BSS-ADDED 1 00:23:89:78:63:22  
<2>CTRL-EVENT-BSS-ADDED 2 00:23:89:6b:e1:02  
<2>CTRL-EVENT-BSS-ADDED 3 00:23:89:76:a4:f2  
<2>CTRL-EVENT-BSS-ADDED 4 00:03:0f:22:75:80  
<2>CTRL-EVENT-BSS-ADDED 5 00:03:0f:22:6f:a0
```

4. Since the DHCP is not supported for the wifi module, I set IP of wlan0 into the same subnetwork of a computer which is also connected to myAP. Then I pinged the network and it works. Then I downloaded the file to the device by wifi module. So finished!

```
lingshuo@lingshuo-ubuntu: ~  
wlan0 Link encap:Ethernet HWaddr 00:1A:6B:A0:51:BF  
UP BROADCAST RUNNING MULTICAST MTU:1500 Metric:1  
RX packets:4 errors:0 dropped:0 overruns:0 frame:0  
TX packets:3 errors:0 dropped:0 overruns:0 carrier:0  
collisions:0 txqueuelen:1000  
RX bytes:769 (769.0 B) TX bytes:361 (361.0 B)  
  
[root@FORLINUX6410]# ifconfig wlan0 192.168.43.191  
[root@FORLINUX6410]# route add default gw 192.168.43.1  
[root@FORLINUX6410]# ping 192.168.43.1  
PING 192.168.43.1 (192.168.43.1): 56 data bytes  
64 bytes from 192.168.43.1: seq=0 ttl=64 time=2013.325 ms  
64 bytes from 192.168.43.1: seq=1 ttl=64 time=1002.815 ms  
64 bytes from 192.168.43.1: seq=2 ttl=64 time=4.969 ms  
64 bytes from 192.168.43.1: seq=3 ttl=64 time=7.677 ms  
64 bytes from 192.168.43.1: seq=4 ttl=64 time=8.155 ms  
64 bytes from 192.168.43.1: seq=5 ttl=64 time=4.404 ms  
  
Network Working Group David J. Farber  
Request for Comments: 914 Gary S. Delp  
Thomas M. Conte  
University of Delaware  
September 1984  
  
A Thinwire Protocol  
for connecting personal computers  
to the INTERNET  
  
Status of this Memo  
  
This RFC focuses discussion on the particular problems in the  
ARPA-Internet of low speed network interconnection with personal  
computers, and possible methods of solution. None of the proposed  
solutions in this document are intended as standards for the  
ARPA-Internet. Rather, it is hoped that a general consensus will  
emerge as to the appropriate solution to the problems, leading  
eventually to the adoption of standards. Distribution of this memo  
unlimited.  
  
lingshuo@lingshuo-ubuntu: ~$ ifconfig -a  
eth0 Link encap:以太网 硬件地址 20:cf:30:56:8a:54  
UP BROADCAST MULTICAST MTU:1500 跃点数:1  
接收数据包:1626 错误:0 丢弃:0 过载:0 帧数:0  
发送数据包:2878 错误:0 丢弃:0 过载:0 载波:0  
碰撞:0 发送队列长度:1000  
接收字节:279239 (279.2 KB) 发送字节:223881 (223.8 KB)  
中断:46  
  
lo Link encap:本地环回  
inet 地址:127.0.0.1 掩码:255.0.0.0  
inet6 地址: ::1/128 Scope:Host  
UP LOOPBACK RUNNING MTU:65536 跃点数:1  
接收数据包:4828 错误:0 丢弃:0 过载:0 帧数:0  
发送数据包:4828 错误:0 丢弃:0 过载:0 载波:0  
碰撞:0 发送队列长度:0  
接收字节:546071 (546.0 KB) 发送字节:546071 (546.0 KB)  
  
wlan0 Link encap:以太网 硬件地址 74:f0:6d:54:f9:d1  
inet 地址:192.168.43.190 广播:192.168.43.255 掩码:255.255.255  
5.0  
inet6 地址: fe80::76f0:6dff:fe54:f9d1/64 Scope:Link  
UP BROADCAST RUNNING MULTICAST MTU:1500 跃点数:1  
接收数据包:621 错误:0 丢弃:0 过载:0 帧数:0  
发送数据包:730 错误:0 丢弃:0 过载:0 载波:0  
碰撞:0 发送队列长度:1000  
接收字节:74875 (74.8 KB) 发送字节:103048 (103.0 KB)  
  
wlan1 Link encap:以太网 硬件地址 14:cf:92:11:a6:1b  
inet 地址:172.28.46.253 广播:172.28.47.255 掩码:255.255.240.  
0  
inet6 地址: fe80::16cf:92ff:fe11:a61b/64 Scope:Link  
UP BROADCAST RUNNING MULTICAST MTU:1500 跃点数:1  
接收数据包:1664 错误:0 丢弃:0 过载:0 帧数:0  
发送数据包:240 错误:0 丢弃:0 过载:0 载波:0  
碰撞:0 发送队列长度:1000  
接收字节:140200 (140.2 KB) 发送字节:34888 (34.8 KB)  
  
lingshuo@lingshuo-ubuntu: ~$
```