

Advantech AE Technical Sharing Documentation

Date	2017 / 04 / 07	SR#	1-2833421267
Category	<input type="checkbox"/> FAQ <input checked="" type="checkbox"/> SOP	Related OS	Ubuntu14.04
Abstract	How to use PCM-24S2WF-AE as a Hotspot under Ubuntu		
Keyword	PCM-24S2WF-AE / Ubuntu / iDoor / Hotspot		
Related Product	PCM-24S2WF-AE		

■ **Problem Description:**

Users get to use the WIFI module as an Hotspot under Ubuntu. Kindly refer to LINUX online forums for other distributions of LINUX.

■ **Brief Solution - Step by Step:**

Step1

Make sure the unit is connected to a wired internet cable and is able to access to the internet.

Ping 8.8.8.8

```

test@test-UNO-2272G-J2AE: ~
test@test-UNO-2272G-J2AE:~$ ping 8.8.8.8
PING 8.8.8.8 (8.8.8.8) 56(84) bytes of data.
64 bytes from 8.8.8.8: icmp_seq=1 ttl=43 time=10.9 ms
64 bytes from 8.8.8.8: icmp_seq=2 ttl=43 time=11.0 ms
64 bytes from 8.8.8.8: icmp_seq=3 ttl=43 time=11.0 ms
64 bytes from 8.8.8.8: icmp_seq=4 ttl=43 time=10.9 ms
64 bytes from 8.8.8.8: icmp_seq=5 ttl=43 time=11.0 ms
^C
--- 8.8.8.8 ping statistics ---
5 packets transmitted, 5 received, 0% packet loss, time 4005ms
rtt min/avg/max/mdev = 10.924/11.007/11.099/0.147 ms
test@test-UNO-2272G-J2AE:~$
    
```

Make sure the WIFI module is recognized by the system.

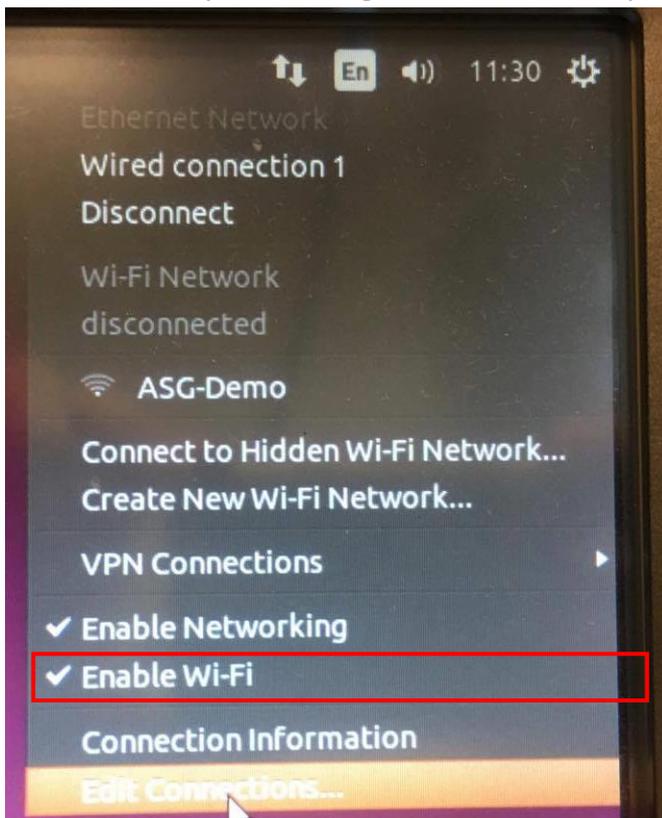
ifconfig

```

wlan0    Link encap:Ethernet  HWaddr 6c:71:d9:4d:a1:a6
UP BROADCAST MULTICAST  MTU:1500  Metric:1
RX packets:0 errors:0 dropped:0 overruns:0 frame:0
TX packets:0 errors:0 dropped:0 overruns:0 carrier:0
collisions:0 txqueuelen:1000
RX bytes:0 (0.0 B)  TX bytes:0 (0.0 B)
    
```

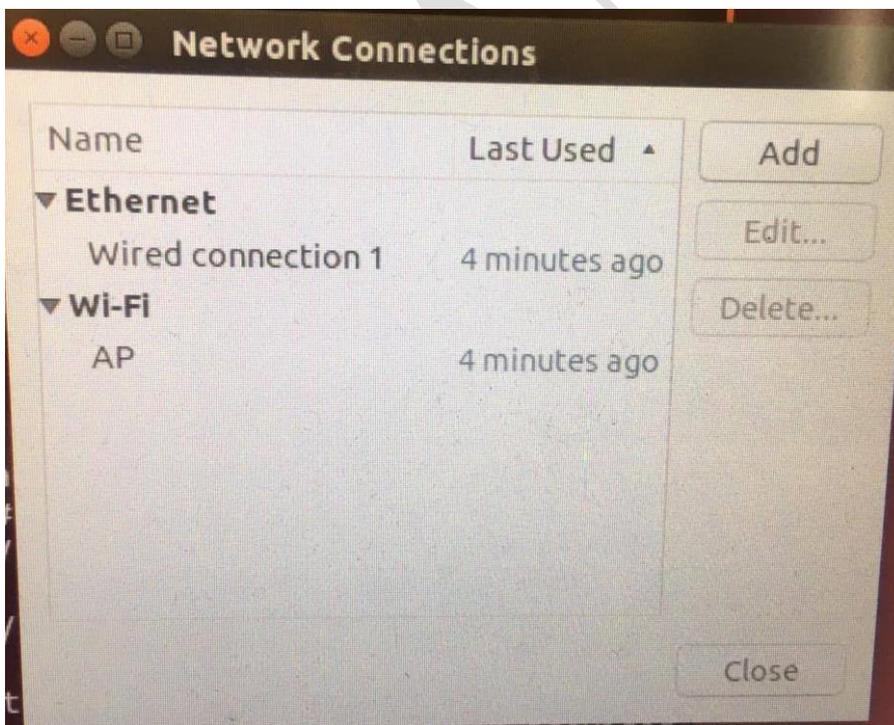
Step2

Disable Wi-Fi by unselecting the **Enable Wi-Fi** option.



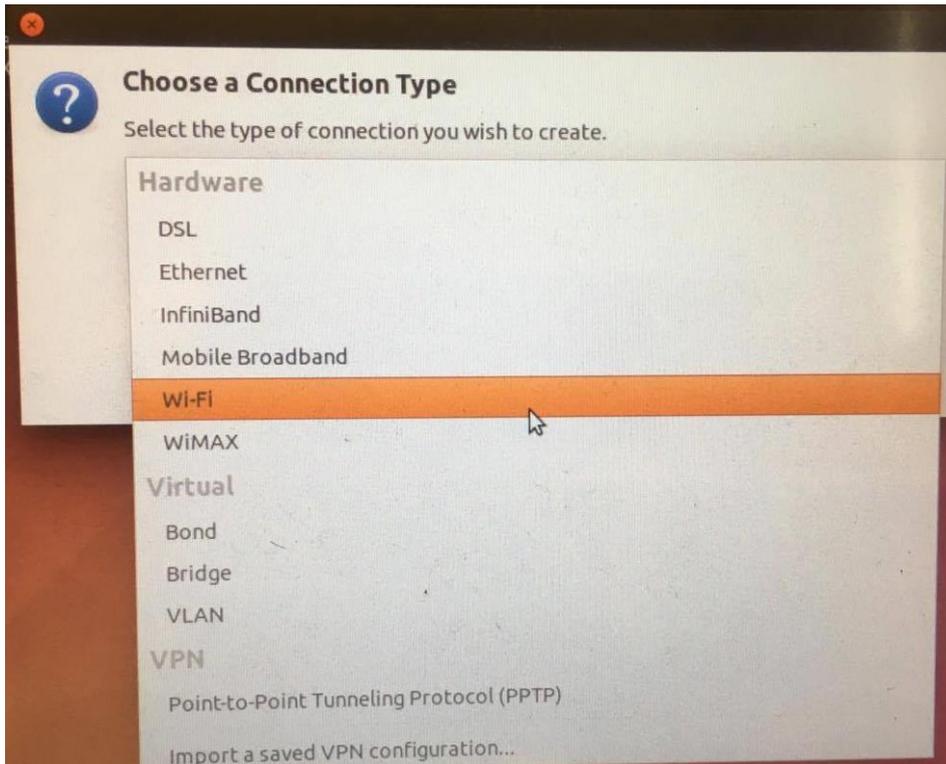
Step3

Select **Edit Connections...** and click **Add**

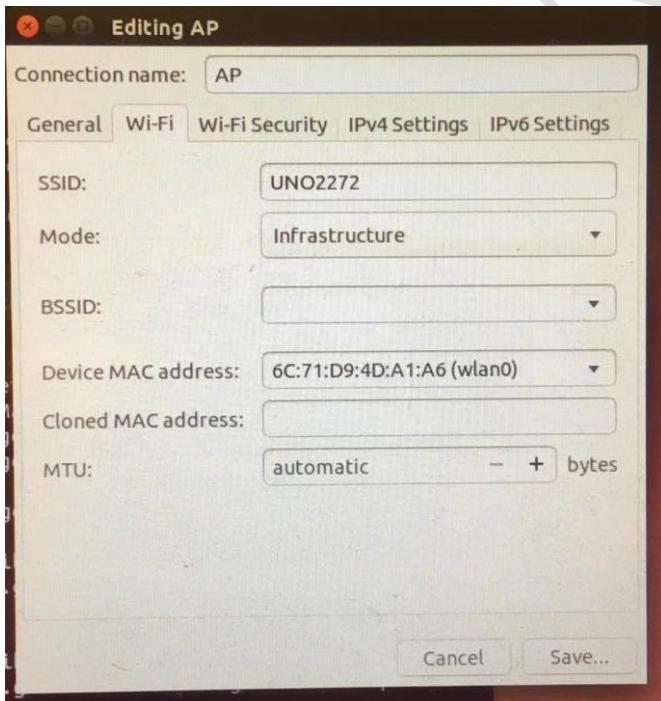


Step4

Follow the prompt ups to choose **Wi-Fi** as the **Connection Type**

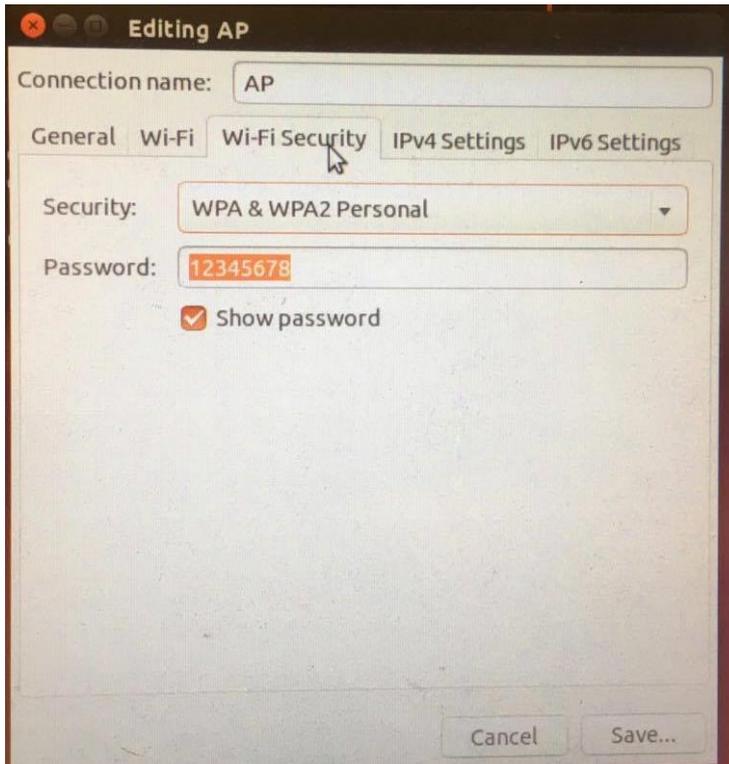


Set your **Connection name**, **SSID** as desired, set **Mode** to **Infrastructure**, select your WIFI module in **Device MAC address**.

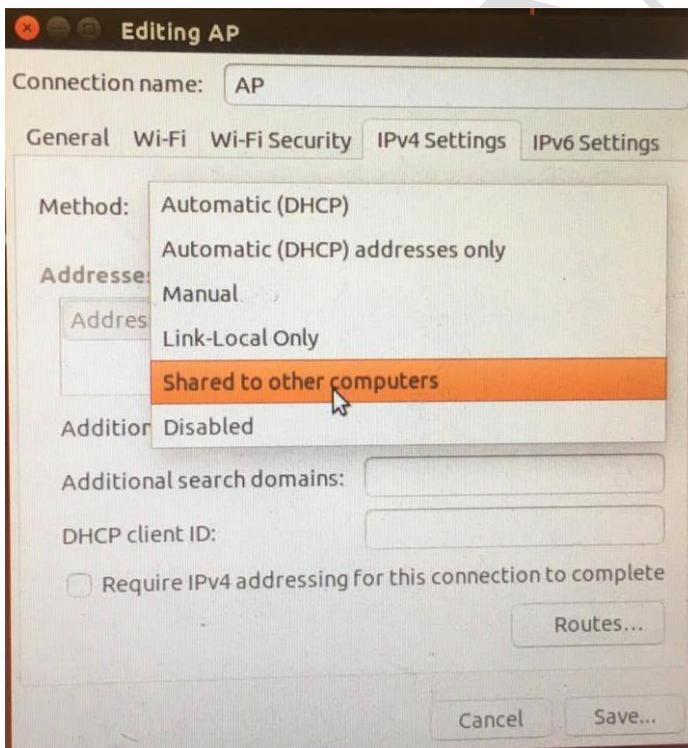


Step5

In **Wi-Fi Security** tab, select **WPA & WAP2 Personal** and password as desired.



In **IPv4 Settings**, select **Shared to other computers**



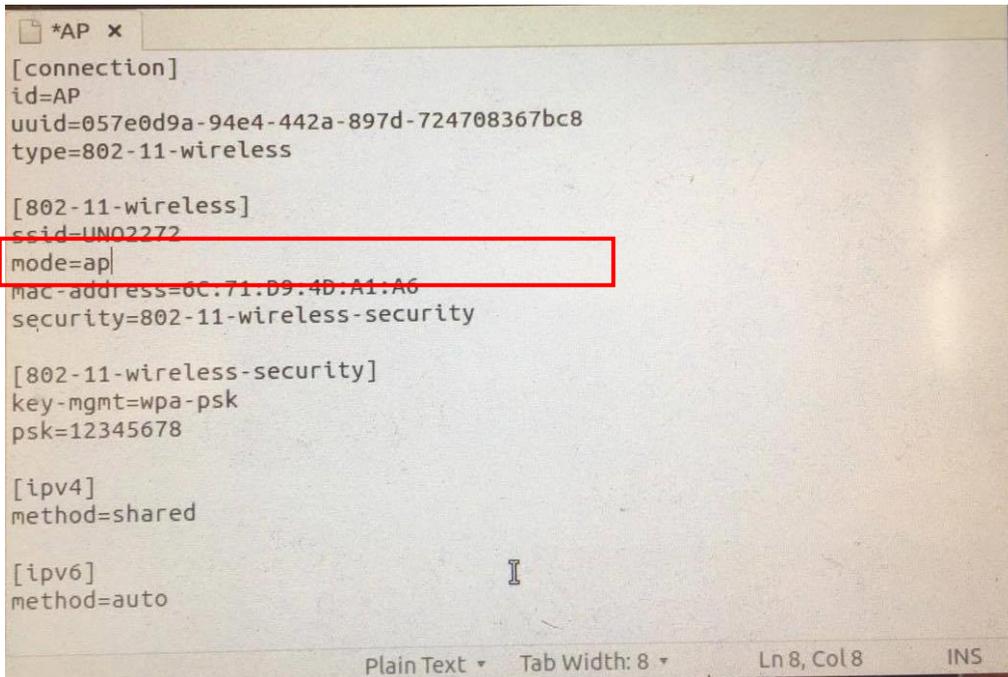
And click **Save** to save the above settings.

Step6

A file will be created under the directory `/etc/NetworkManager/system-connections`. For example, a file called `AP` is created in my case.

```
root@test-UNO-2272G-J2AE:/etc# cd NetworkManager/
root@test-UNO-2272G-J2AE:/etc/NetworkManager# cd system-connections/
root@test-UNO-2272G-J2AE:/etc/NetworkManager/system-connections# ls
AP
root@test-UNO-2272G-J2AE:/etc/NetworkManager/system-connections# gksu gedit AP
```

`gksu gedit AP`, a graphic interface editor will show up, edit `mode` to `ap`



When above things are done, save and exit

Step7

Now enable WIFI from Network Manager and you should see the AP you just set. Use your phone to connect the AP to verify settings are correct.



Reference:**Online Forum Tutorial**<http://ubuntuhandbook.org/index.php/2014/09/3-ways-create-wifi-hotspot-ubuntu/>

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