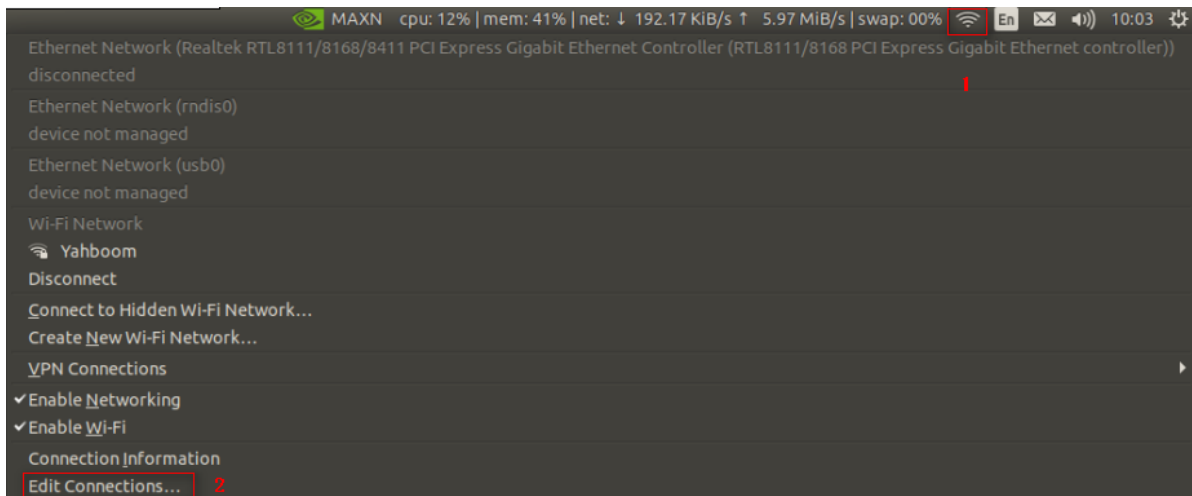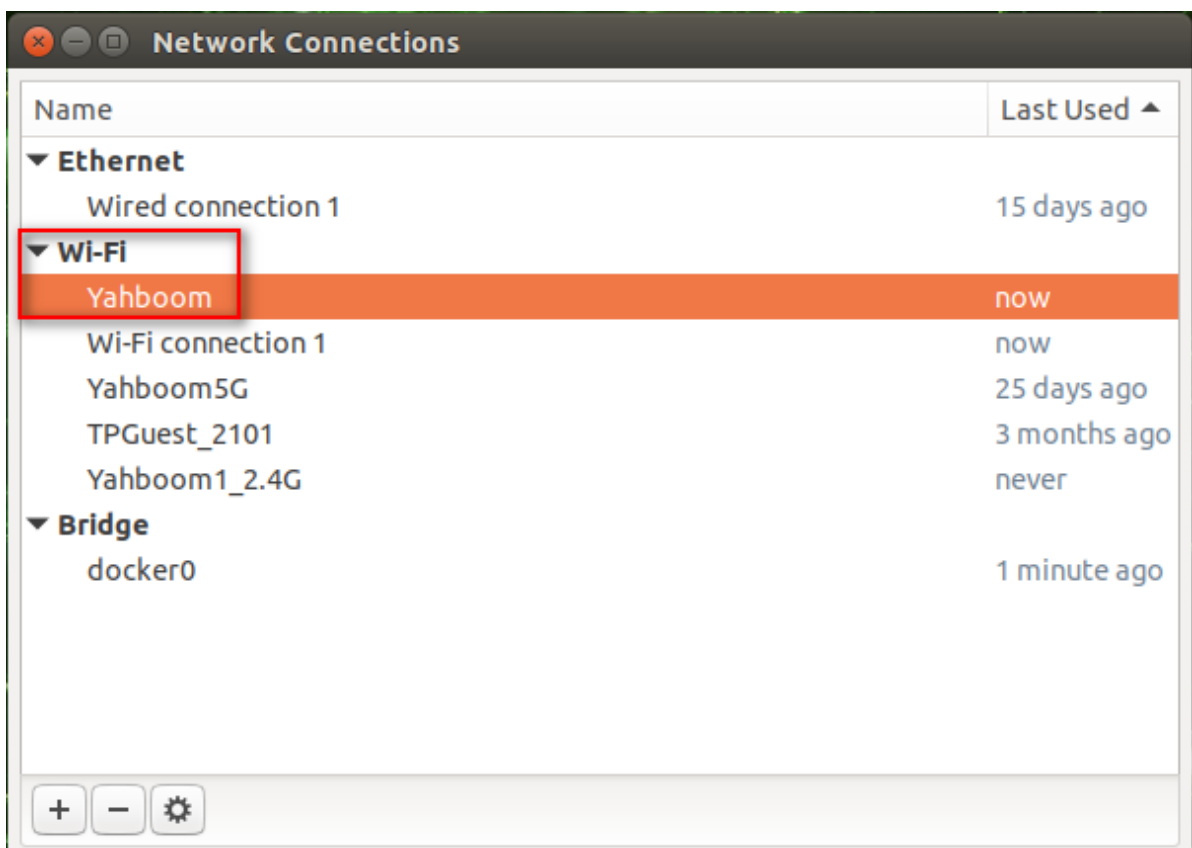# 5、Static IP and WiFi hotspot mode

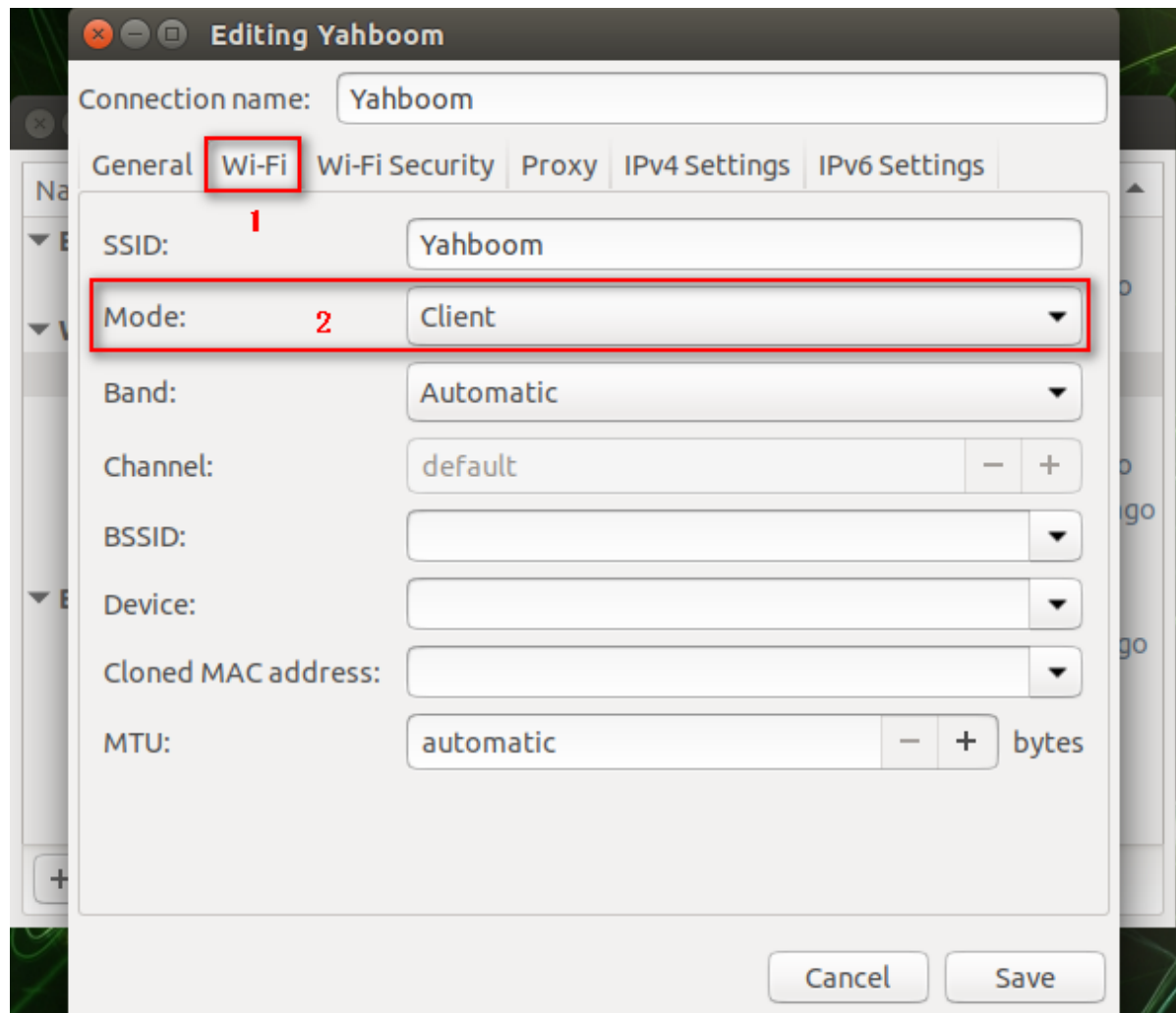**This section takes jetson nano as an example.**

5.1、Static IP

First, click the WiFi icon in the upper right corner, and the following info will appear, click 【Edit Connections...】. As shown below.
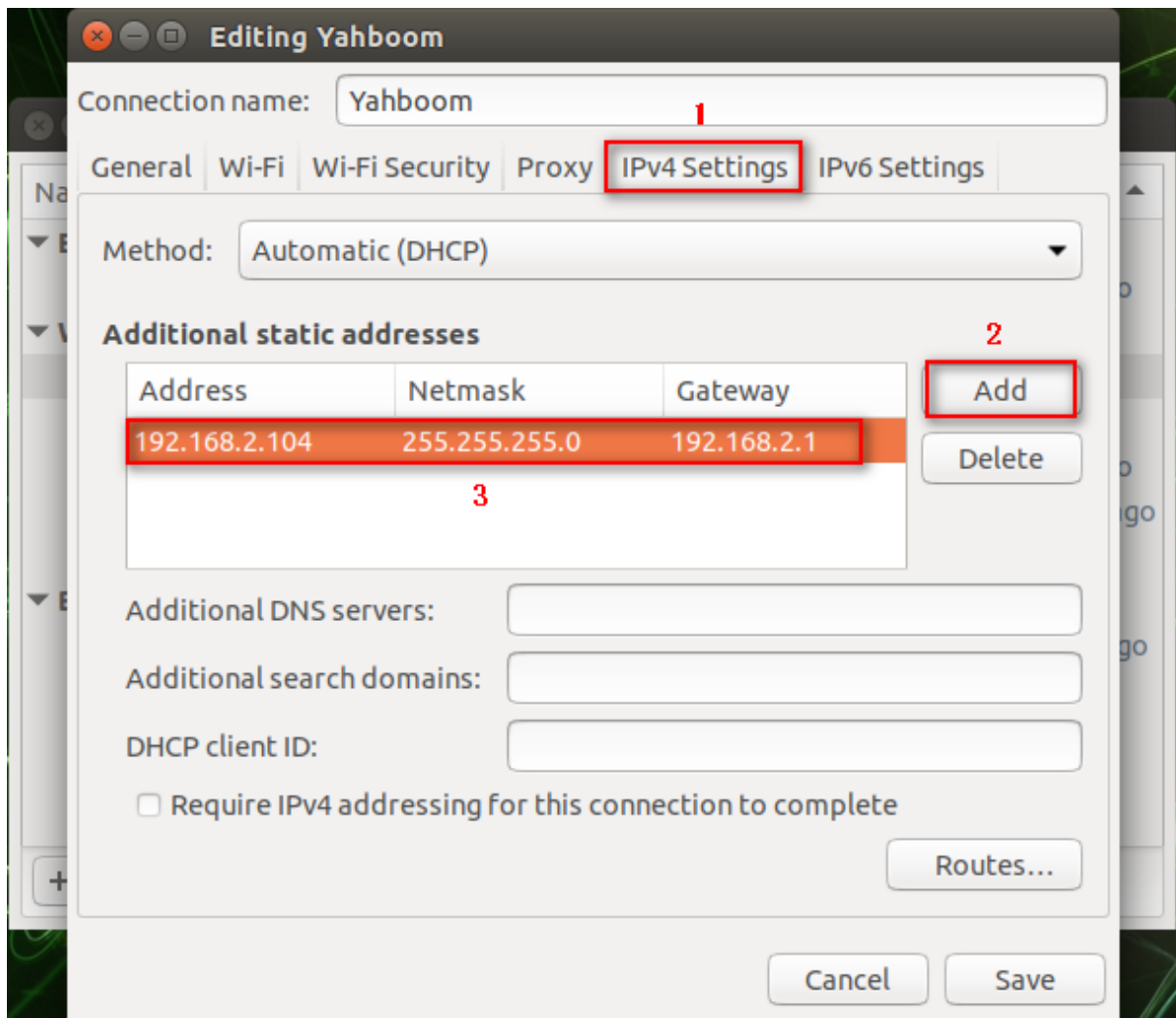

Double-click the connected Wi-Fi.

Choose【Wi-Fi】option,【Mode】choose【Client】.

Choose【IPv4 Settings】, click【Add】and input IP address, click【save】.
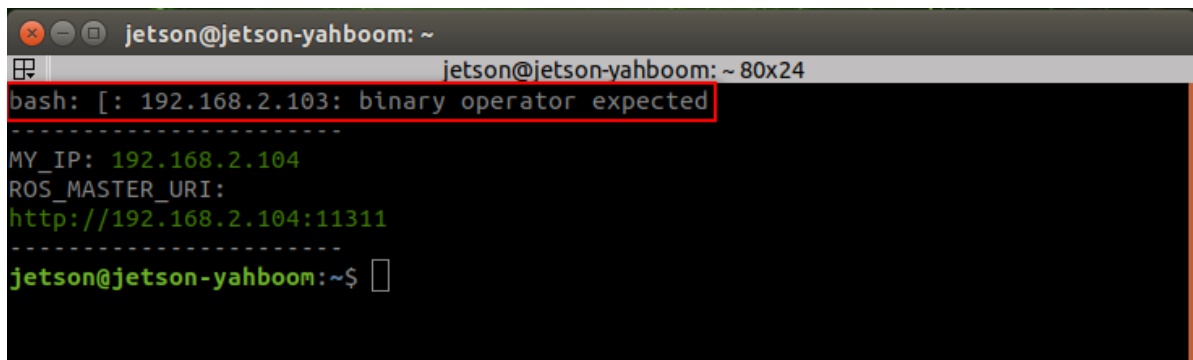
Modify .bashrc file, input following command.

```
sudo vim ~/.bashrc
```

Set ROS_IP to the IP modified in the previous step, as shown below.

Note: if you do not connect to this Wi-Fi, be sure to shield the modified line (add # in front of it).
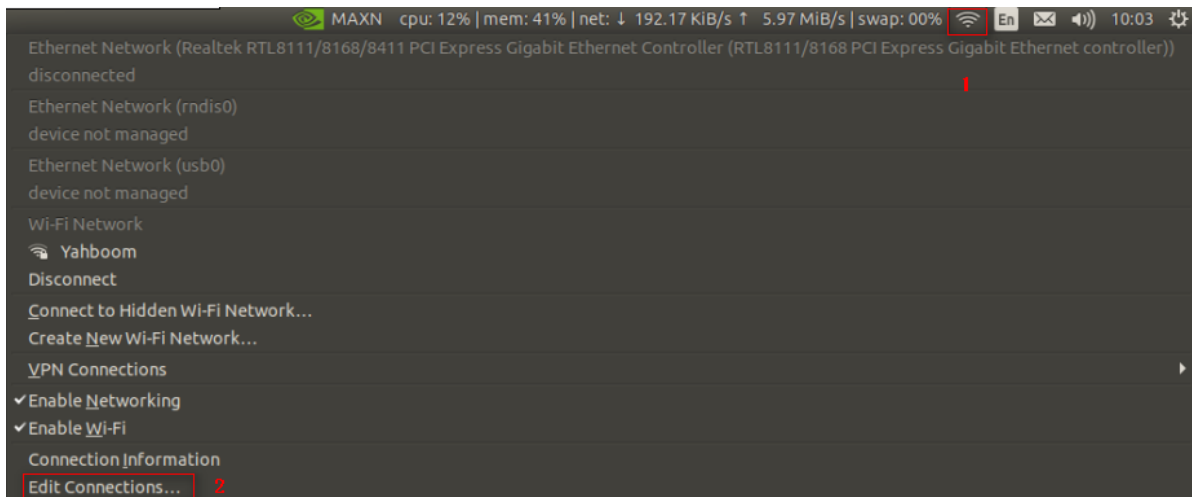

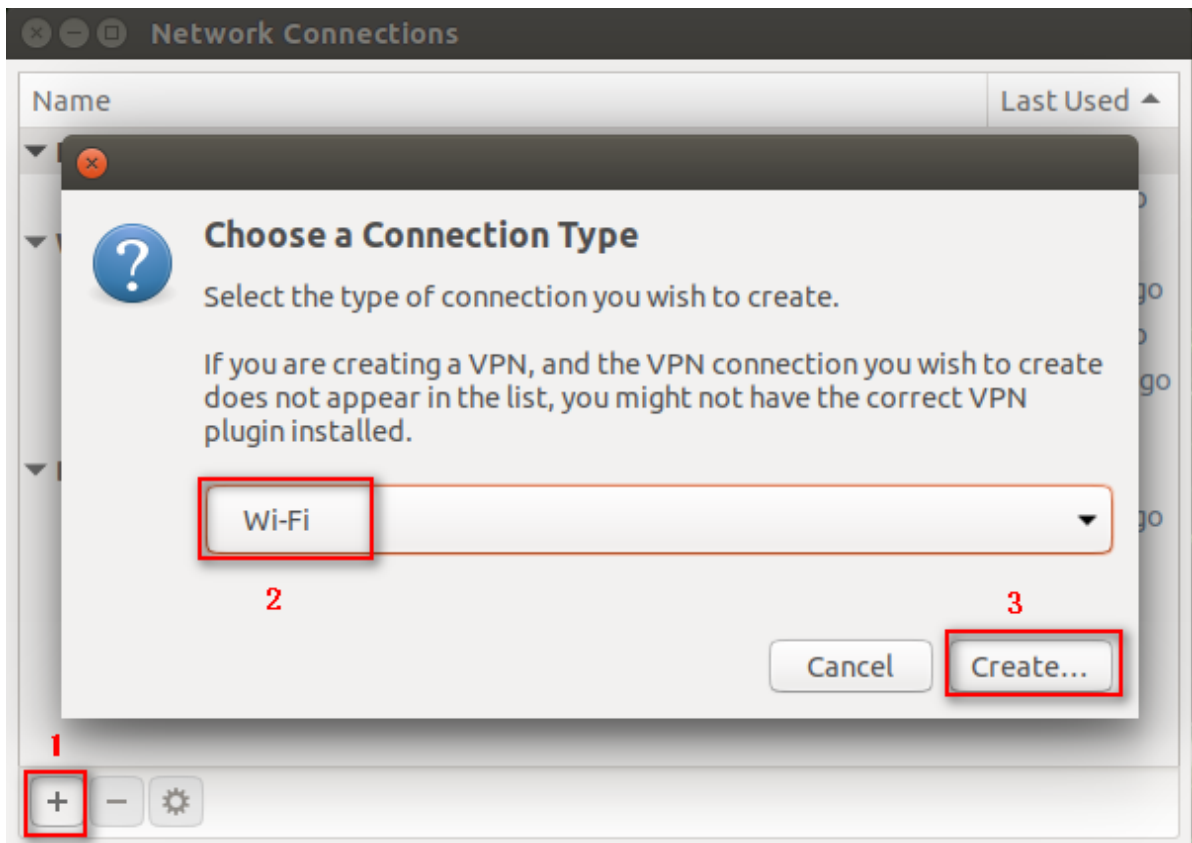When we open new terminal, 【binary operator expected】 will appear, don't care it.
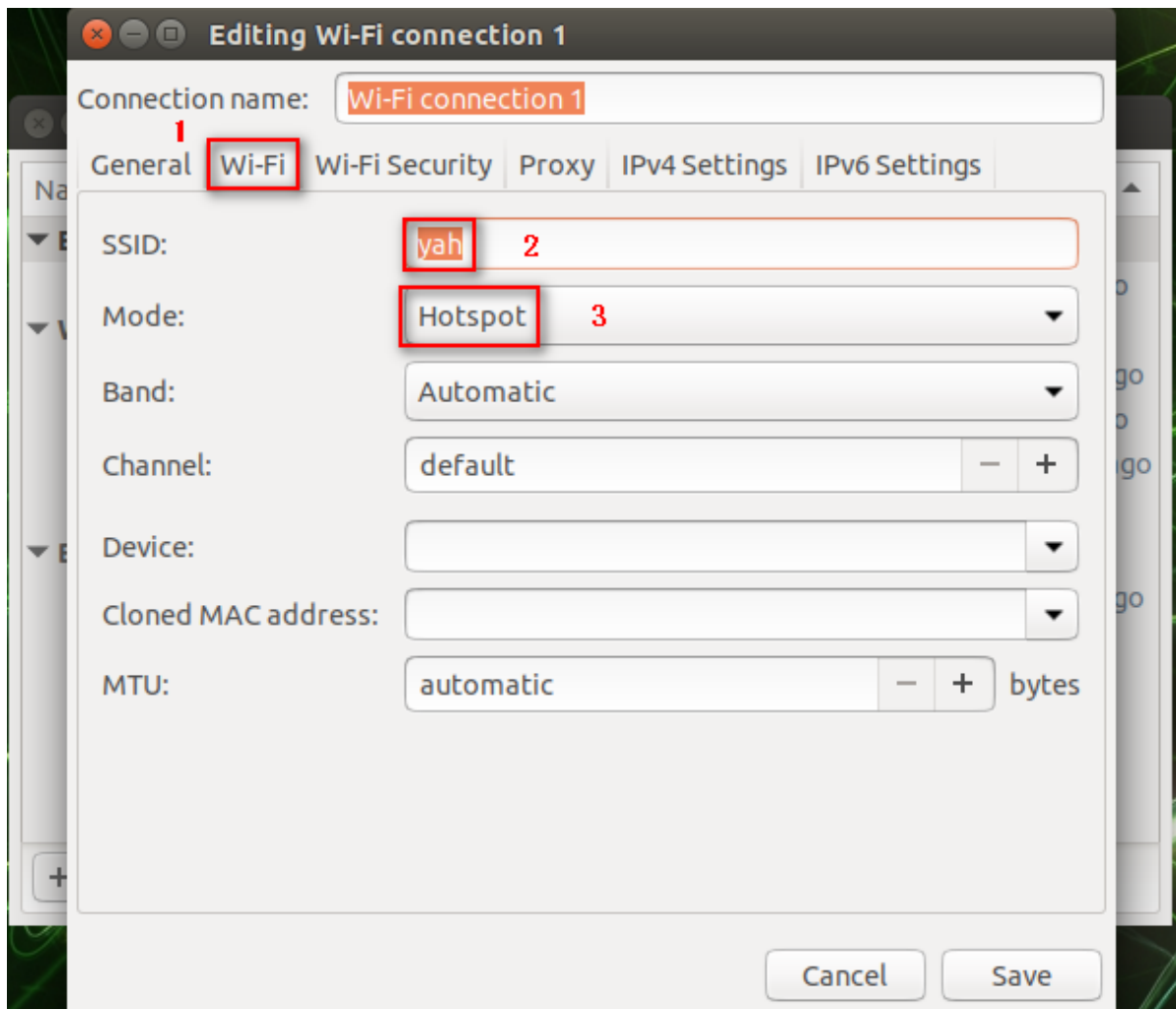
5.2、WiFi hotspot mode

First, click the WiFi icon in the upper right corner, and the following info will appear, click 【Edit Connections…】. As shown below.
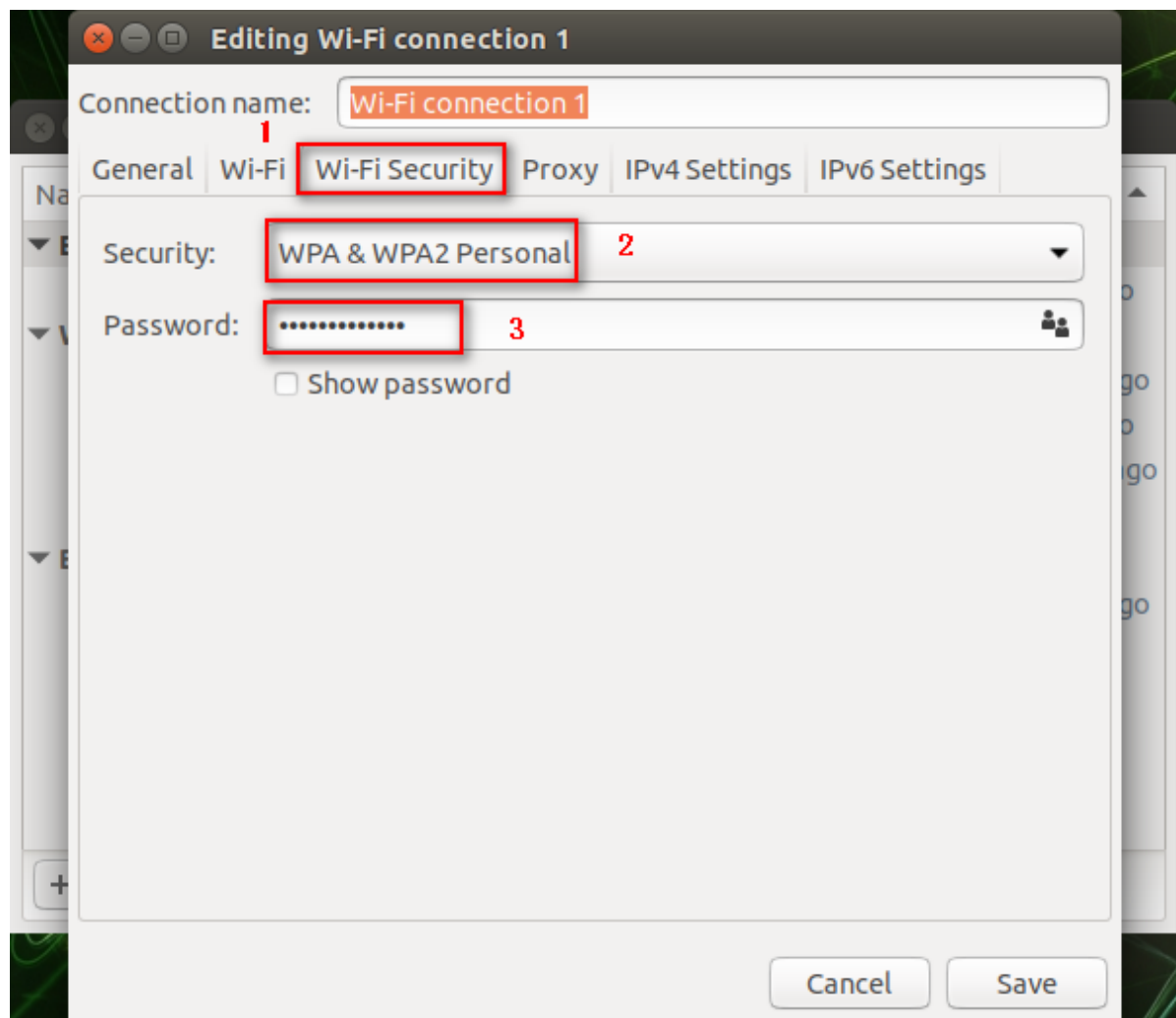

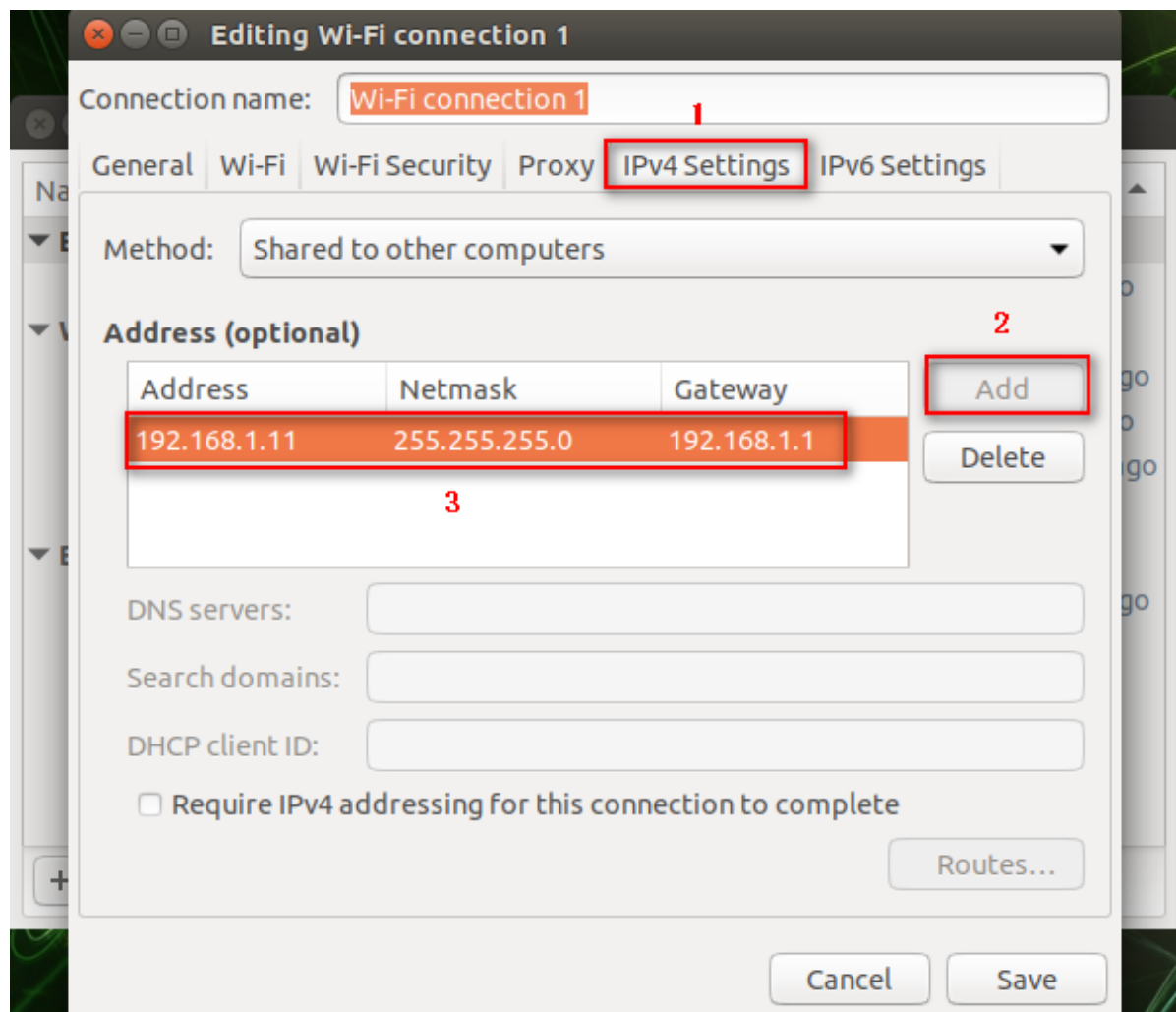It will appear following interface, click 【+】choose 【Wi-Fi】mode, click 【Create…】.

Choose【Wi-Fi】option, choose 【SSID】add 【yah】, choose 【Hotspot】in the 【Mode】.
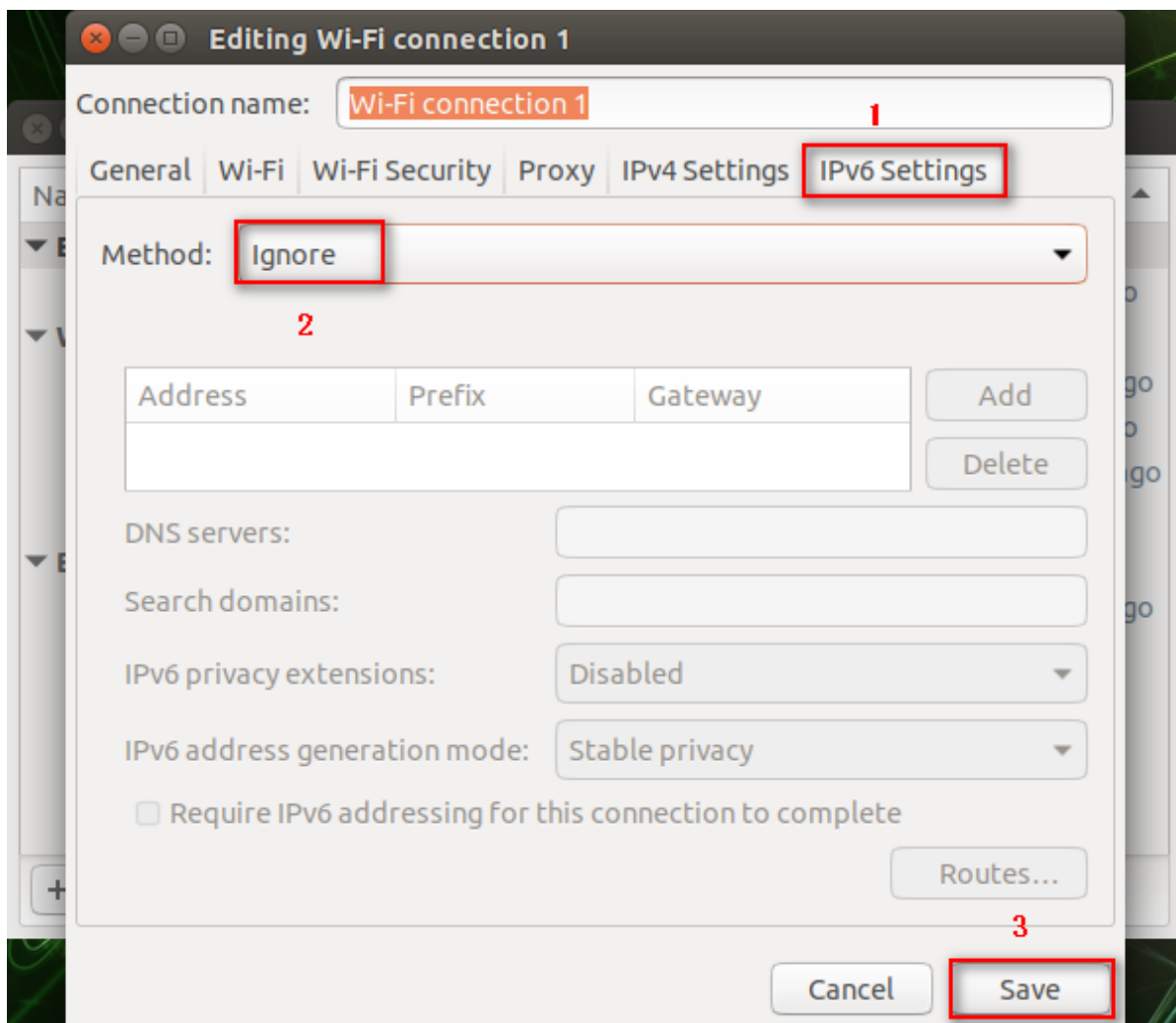
Choose【Wi-Fi Security】option, choose【WPA & WPA2 Personal】in【Security】, input password in 【Password】.

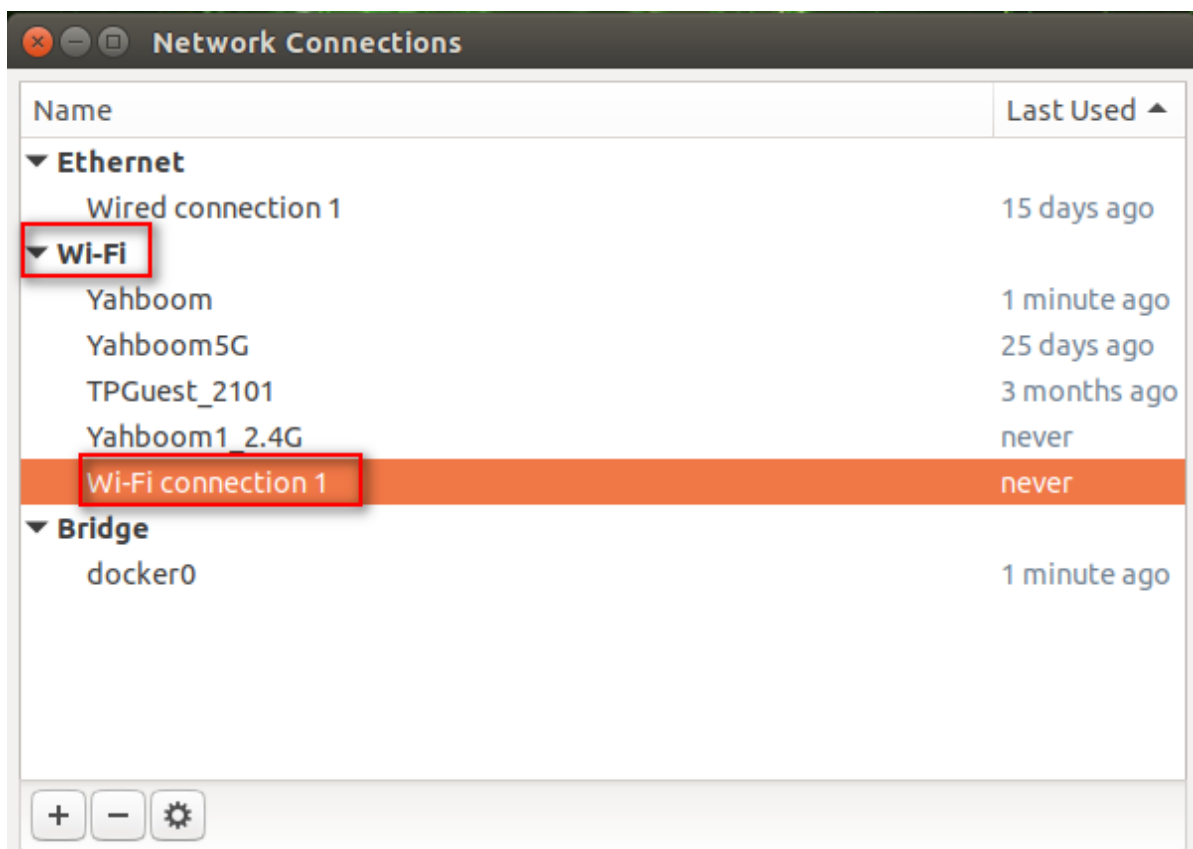Choose【IPv4 Settings】option, click 【Add】, input password, as shown below.

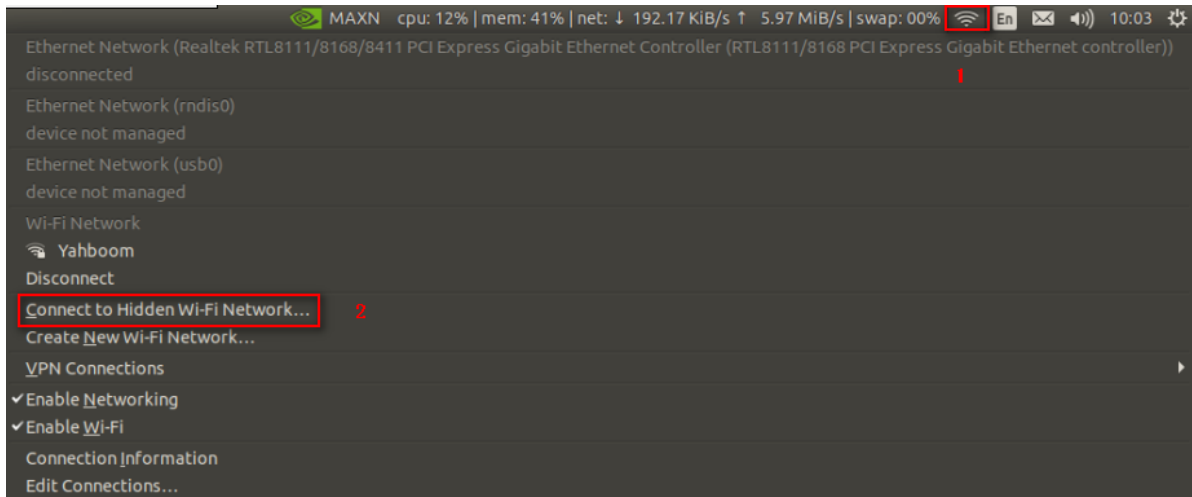Choose【IPv4 Settings】, click 【Ignore】in【Method】, click 【save】.

Choose 【Wi-Fi】 mode, the new WiFi we created will appera.

At this point, the new WIFI has been successfully created, and then we can connect to this new WIFI.

Follow the steps in the figure below.

Choose new WiFi we created【Wi-Fi connections 1】in【Connections】, click【Connect】.