

# Telit le910c4 on EPC-R7200

## 1).Install wvdial tool

```
$ sudo apt update  
$ sudo apt install -y wvdial
```

## 2).Edit configuration file

```
$ vi /etc/wvdial.conf
```

Init5 = AT+CGDCONT=1,"ip","internet" is for Chunghwa Telecom

### [Dialer Defaults]

```
Init1 = ATZ  
Init2 = ATQ0 V1 E1 S0=0 &C1 &D2 +FCLASS=0  
Init5 = AT+CGDCONT=1,"ip","internet"  
Password = any  
Phone = *99#  
Modem Type = Analog Modem  
Stupid Mode = 1  
Baud = 9600  
New PPPD = yes  
Dial Command = ATDT  
Modem = /dev/ttyUSB5  
ISDN = 0  
Username = any
```

## 3).Update wvdial configuration file

Due to EPC-R7200 udev port is random, before dial to internet, we need to do this first. wvdialconf utility will find a suitable baud rate and modem port for you automatically.

```
$ wvdialconf
```

## 4).Dial to Internet via wvdial utility

```
$ wvdial
```

```

ubuntu@linux:~$ sudo -s
[sudo] password for ubuntu:
root@linux:~# wvdial
--> WvDial: Internet dialer version 1.61
--> Initializing modem.
--> Sending: ATZ
ATZ
OK
--> Sending: ATQ0 V1 E1 S0=0 &C1 &D2 +FCLASS=0
ATQ0 V1 E1 S0=0 &C1 &D2 +FCLASS=0
OK
--> Sending: AT+CGDCONT=1,"ip","internet"
AT+CGDCONT=1,"ip","internet"
OK
--> Modem initialized.
--> Sending: ATDT*99#
--> Waiting for carrier.
ATDT*99#
CONNECT 1500000000
~[7f]]#@!}!}.} }9}"&} } } } }#}%B#}%}%}&[0b]z,}/}'"}{ }"}#^~
--> Carrier detected. Starting PPP immediately.
--> Starting pppd at Wed Jan 12 01:25:52 2022
--> Pid of pppd: 10694
--> Using interface ppp0
--> local IP address 10.114.173.117
--> remote IP address 10.64.64.64
--> primary DNS address 168.95.1.1
--> secondary DNS address 168.95.192.1

```

5). Make sure the **ppp0** interface is available. Keep in mind the IP address.

```
$ ifconfig -a
```

```

ppp0: flags=4305<UP,POINTOPOINT,RUNNING,NOARP,MULTICAST> mtu 1500
    inet 10.114.173.117 netmask 255.255.255.255 destination 10.64.64.64
    ppp txqueuelen 3 (Point-to-Point Protocol)
    RX packets 5 bytes 62 (62.0 B)
    RX errors 0 dropped 0 overruns 0 frame 0
    TX packets 6 bytes 101 (101.0 B)
    TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0

```

6). Add ppp0 IP to default gateway and ping to Internet.

```
$ sudo route add default gw 10.114.173.117
```

```

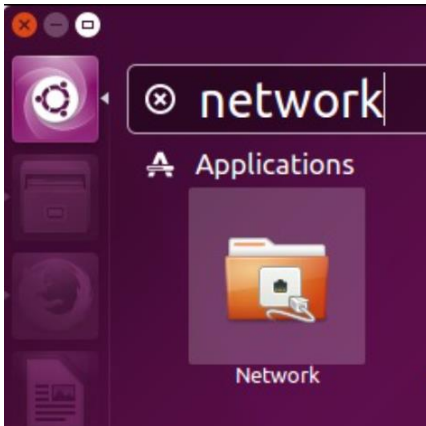
ubuntu@localhost:~$ sudo route add default gw 10.114.173.117
[sudo] password for ubuntu:
ubuntu@localhost:~$ ping 8.8.8.8
PING 8.8.8.8 (8.8.8.8) 56(84) bytes of data.
64 bytes from 8.8.8.8: icmp_seq=1 ttl=55 time=47.8 ms
64 bytes from 8.8.8.8: icmp_seq=2 ttl=55 time=37.5 ms
64 bytes from 8.8.8.8: icmp_seq=3 ttl=55 time=50.7 ms
64 bytes from 8.8.8.8: icmp_seq=4 ttl=55 time=66.5 ms
^C
--- 8.8.8.8 ping statistics ---
4 packets transmitted, 4 received, 0% packet loss, time 3003ms
rtt min/avg/max/mdev = 37.525/50.675/66.598/10.419 ms
ubuntu@localhost:~$

```

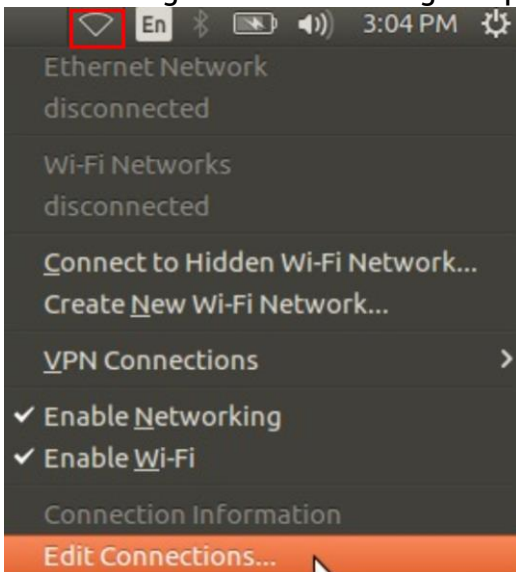
## [LTE] Connect to Internet via Built-In Network Setting on Ubuntu.

1).Open Network Panel.

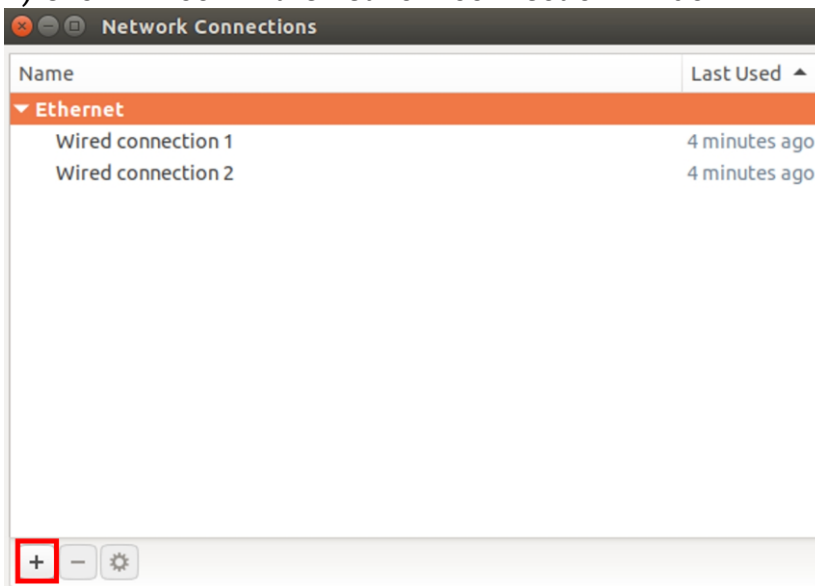
Click “Search” Icon on toolbar and enter “network”, or



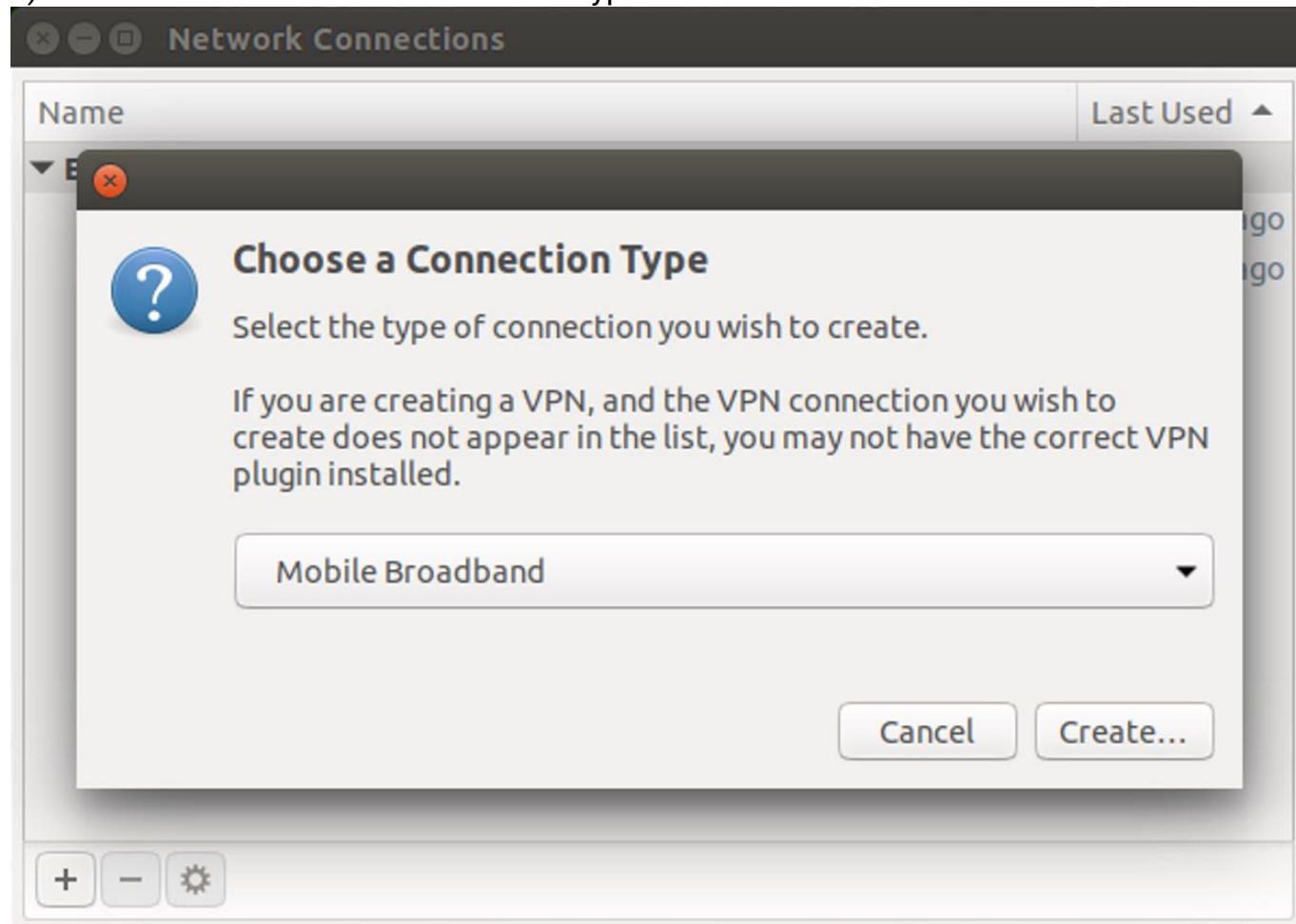
Click the signal icon on the right-top bar and select “Edit Connections” in the pop-up menu.



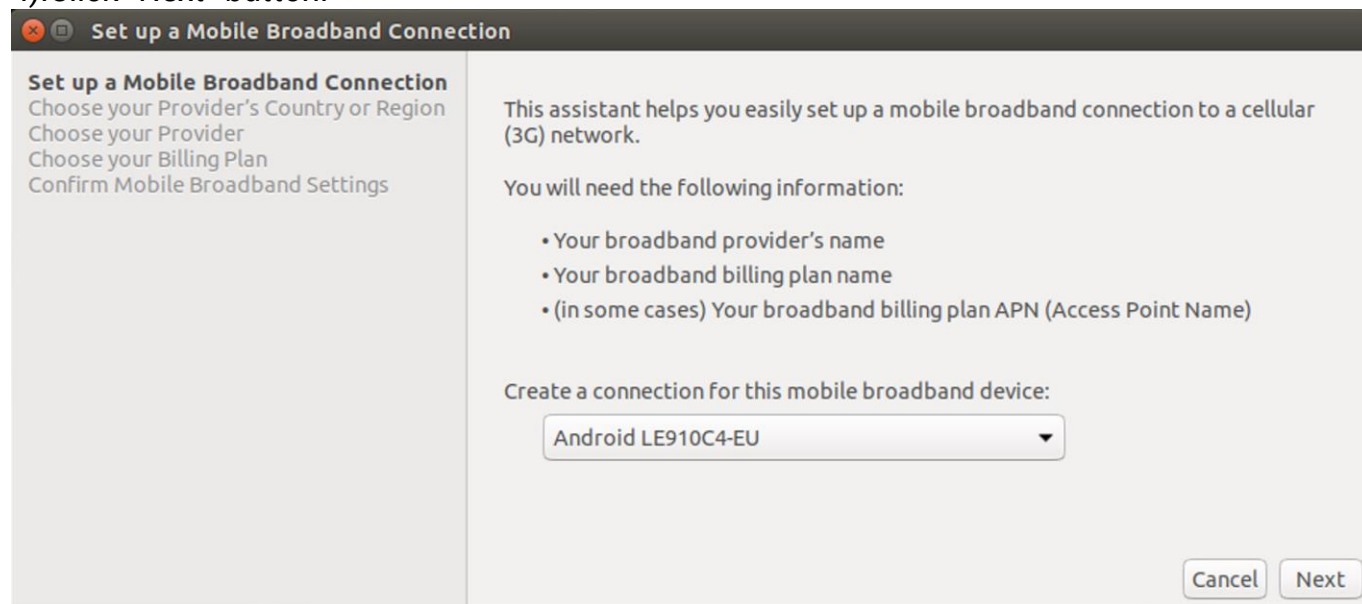
2).Click “+” icon in the network connection window.



3).Select "Mobile Broadband" connection type



4).Click "Next" button.



5).The region please select “Taiwan”.

The screenshot shows a window titled "Choose your Provider's Country or Region". On the left, a sidebar lists the steps: "Set up a Mobile Broadband Connection", "Choose your Provider's Country or Region" (highlighted), "Choose your Provider", "Choose your Billing Plan", and "Confirm Mobile Broadband Settings". The main area is titled "Country or Region List:" and contains a scrollable list of countries and regions. "Taiwan" is selected and highlighted with an orange background. Other visible options include Swaziland, Sweden, Switzerland, Syrian Arab Republic, Tajikistan, Tanzania, Thailand, and Timor-Leste. At the bottom right, there are "Cancel", "Back", and "Next" buttons.

Country or region
Swaziland
Sweden
Switzerland
Syrian Arab Republic
<b>Taiwan</b>
Tajikistan
Tanzania
Thailand
Timor-Leste

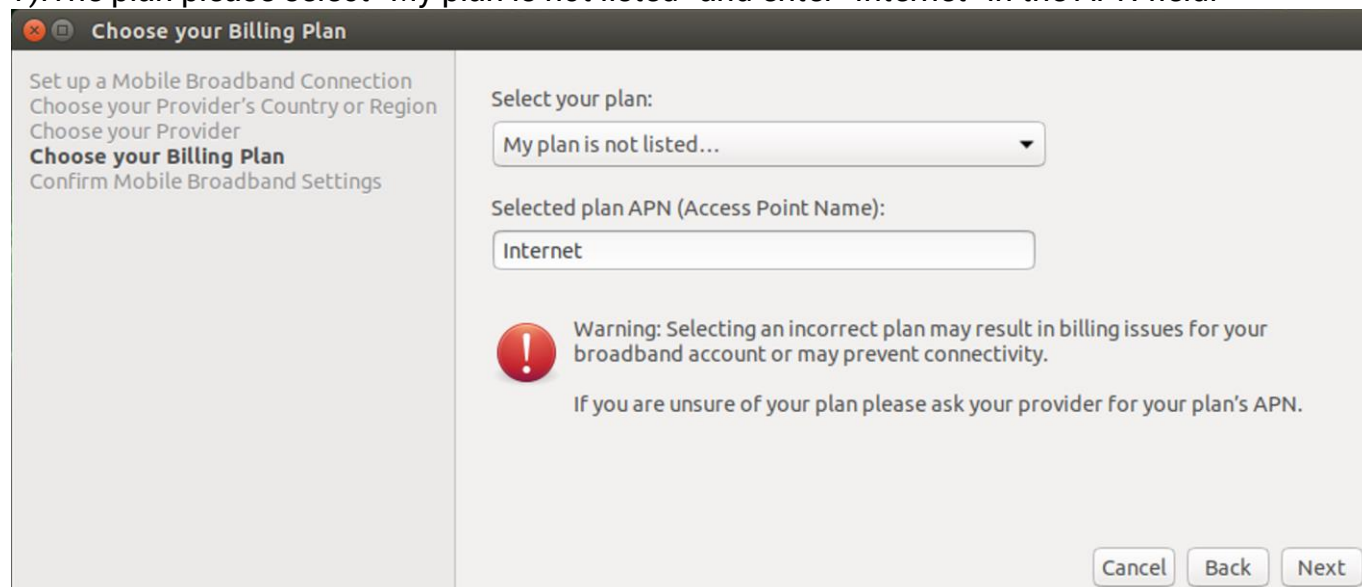
6).Select the right ISP according to your sim card.

The screenshot shows a window titled "Choose your Provider". The sidebar on the left is identical to the previous window, with "Choose your Provider" highlighted. The main area is titled "Select your provider from a list:". Below this is a scrollable list of providers. "Chunghwa Telecom (emome)" is selected and highlighted with an orange background. Other visible providers are Far Eastone / KGT, TransAsia, TW Mobile, and Vibo Telecom / Aurora. Below the list, there is an option "I can't find my provider and I wish to enter it manually:" with a radio button. Under this option is a text input field labeled "Provider:". At the bottom right, there are "Cancel", "Back", and "Next" buttons.

Provider
<b>Chunghwa Telecom (emome)</b>
Far Eastone / KGT
TransAsia
TW Mobile
Vibo Telecom / Aurora

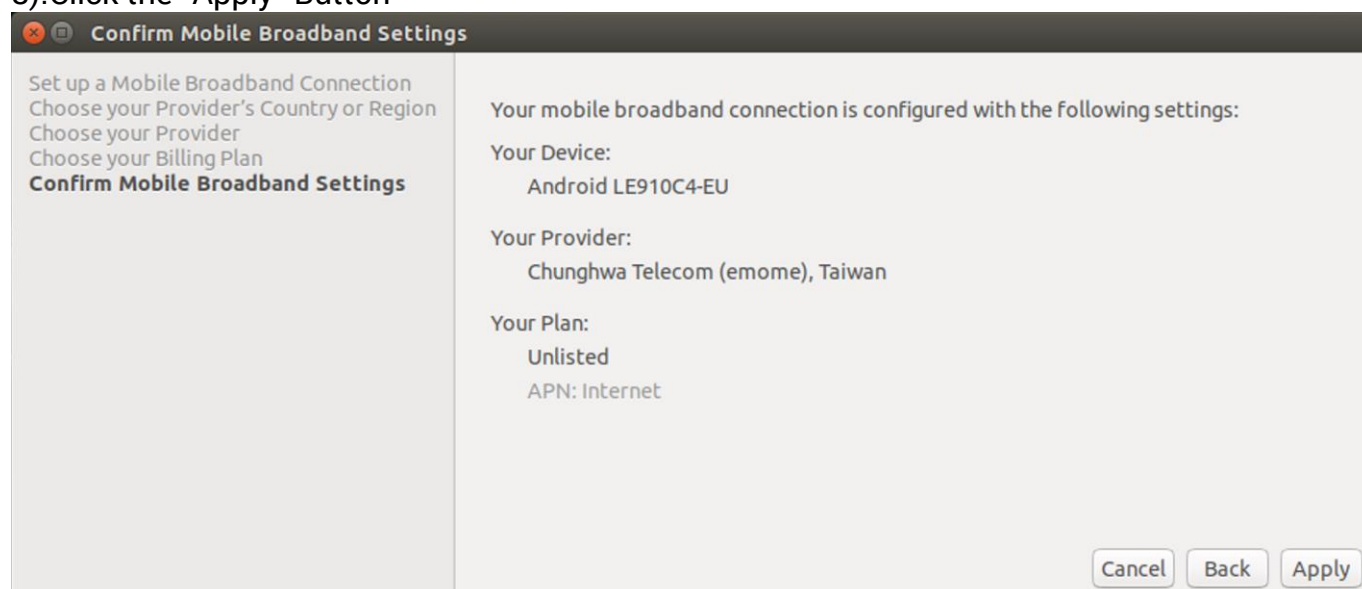
☐ I can't find my provider and I wish to enter it manually:  
Provider:

7).The plan please select “My plan is not listed” and enter “Internet” in the APN field.



The screenshot shows a window titled "Choose your Billing Plan". On the left, a sidebar lists the steps: "Set up a Mobile Broadband Connection", "Choose your Provider's Country or Region", "Choose your Provider", "Choose your Billing Plan" (which is highlighted), and "Confirm Mobile Broadband Settings". The main area contains a "Select your plan:" dropdown menu with "My plan is not listed..." selected. Below this is a "Selected plan APN (Access Point Name):" text field containing "Internet". A warning icon (red circle with an exclamation mark) is followed by the text: "Warning: Selecting an incorrect plan may result in billing issues for your broadband account or may prevent connectivity. If you are unsure of your plan please ask your provider for your plan's APN." At the bottom right are three buttons: "Cancel", "Back", and "Next".

8).Click the “Apply” Button



The screenshot shows a window titled "Confirm Mobile Broadband Settings". The left sidebar is identical to the previous window, with "Confirm Mobile Broadband Settings" highlighted. The main area displays the configured settings: "Your mobile broadband connection is configured with the following settings:", "Your Device: Android LE910C4-EU", "Your Provider: Chunghwa Telecom (emome), Taiwan", "Your Plan: Unlisted", and "APN: Internet". At the bottom right are three buttons: "Cancel", "Back", and "Apply".

9).Keep all of fields default and click “Save”

Editing Chunghwa Telecom (emome) connection 1

Connection name: Chunghwa Telecom (emome) connection 1

General Mobile Broadband PPP Settings Proxy IPv4 Settings IPv6 Settings

**Basic**

Number: \*99#

Username:

Password:

**Advanced**

APN: Internet Change...

Network ID:

☒ Allow roaming if home network is not available

PIN:

☐ Show passwords

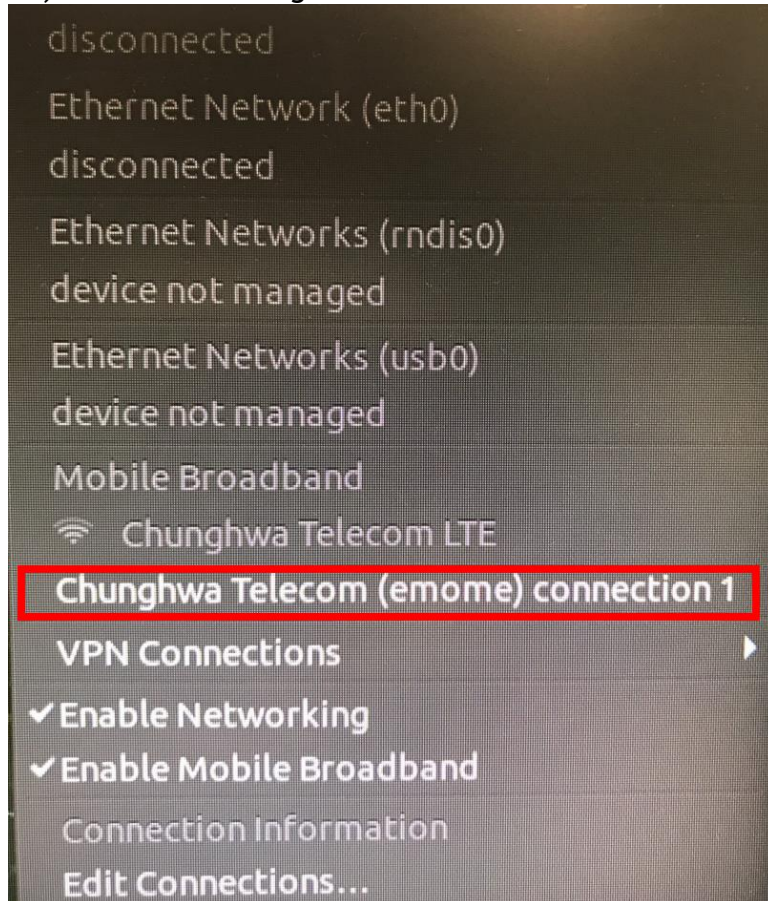
Cancel Save

10).This is what we created in the network connection window

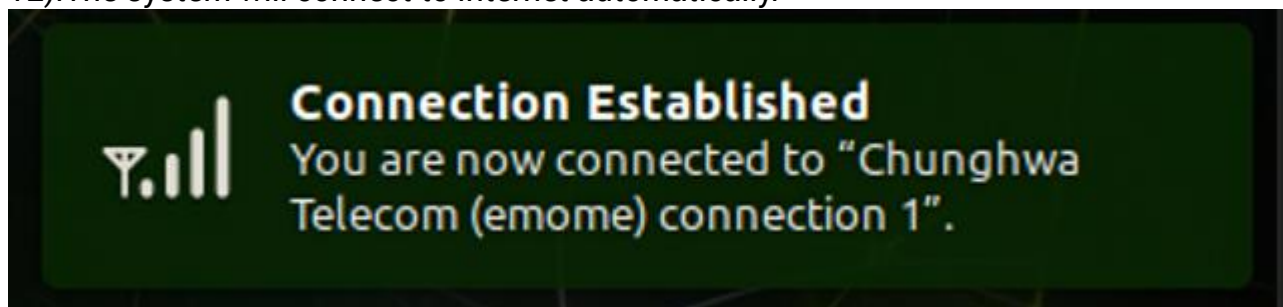
Name	Last Used ▲
<b>Ethernet</b>	
Wired connection 1	4 minutes ago
Wired connection 2	4 minutes ago
<b>Mobile Broadband</b>	
Chunghwa Telecom (emome) connection 1	never

+ - ⚙

11).Select the configuration we created on the network menu



12).The system will connect to internet automatically.



13).You may check the network interface ppp0 and test connection

```
ppp0: flags=4305<UP,POINTOPOINT,RUNNING,NOARP,MULTICAST> mtu 1500
    inet 10.73.145.42 netmask 255.255.255.255 destination 0.0.0.0
    ppp txqueuelen 3 (Point-to-Point Protocol)
    RX packets 18 bytes 1056 (1.0 KB)
    RX errors 0 dropped 0 overruns 0 frame 0
    TX packets 27 bytes 1662 (1.6 KB)
    TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0

ubuntu@linux:~$ 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=113 time=62.2 ms
64 bytes from 8.8.8.8: icmp_seq=2 ttl=113 time=67.7 ms
64 bytes from 8.8.8.8: icmp_seq=3 ttl=113 time=52.6 ms
```