

ElderSens Router Wifi Configuration Instructions

Version	Remarks	Update date& Modifier
1.0.0	Configuration Instructions	2018.04.04 叶家俊
1.0.1	Add 1-2	2018.04.10 叶家俊

1-1 Configuring WiFi by wireless network

1-1-1 Setup network environment.

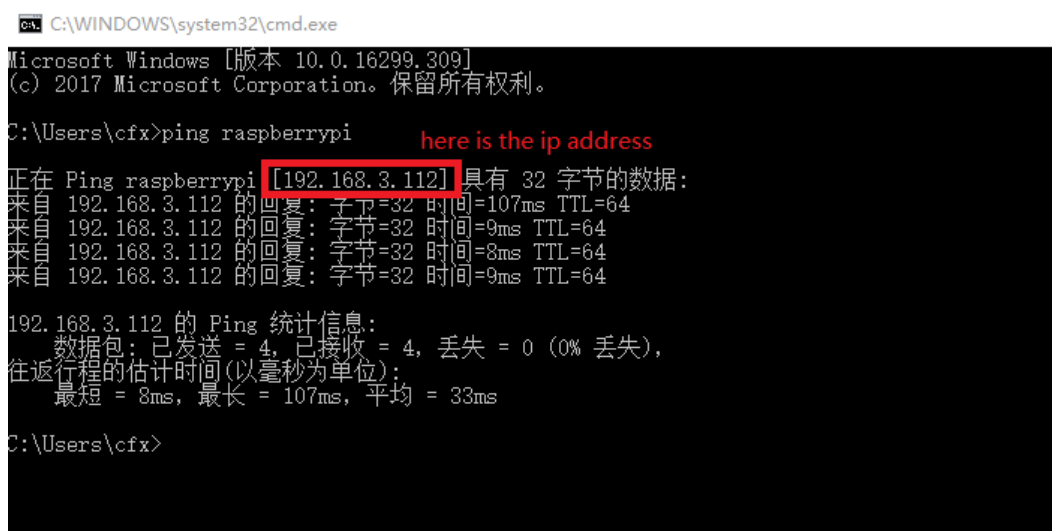
To configure ElderSensRouter network, ElderSensRouter and PC must first connect to the same network. ElderSensRouter itself can automatically connect to the wireless network named "SM919" and password "zhcfx906" by default. So before configuring, please confirm that you have opened the hotspot or WiFi that sets the wireless network name to the "SM919" password as "zhcfx906".

1-1-2 Start the connection.

After setting up the WiFi environment, connect the ElderSensRouter to the power supply, and set up your PC connection network.

1-1-3 Get the IP address of ElderSensRouter.

Open the command line window of the windows system PC, enter the command "ping raspberrypi", and get the IP address after receiving the response data. As shown in the following figure.



```

C:\WINDOWS\system32\cmd.exe
Microsoft Windows [版本 10.0.16299.309]
(c) 2017 Microsoft Corporation。保留所有权利。

C:\Users\cfx>ping raspberrypi      here is the ip address

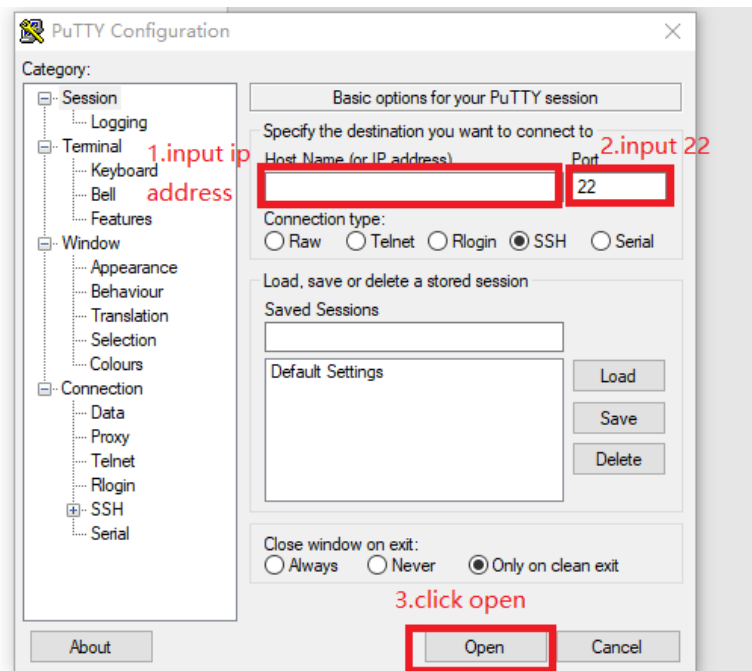
正在 Ping raspberrypi [192.168.3.112] 具有 32 字节的数据:
来自 192.168.3.112 的回复: 字节=32 时间=107ms TTL=64
来自 192.168.3.112 的回复: 字节=32 时间=9ms TTL=64
来自 192.168.3.112 的回复: 字节=32 时间=8ms TTL=64
来自 192.168.3.112 的回复: 字节=32 时间=9ms TTL=64

192.168.3.112 的 Ping 统计信息:
    数据包: 已发送 = 4, 已接收 = 4, 丢失 = 0 (0% 丢失),
    往返行程的估计时间(以毫秒为单位):
        最短 = 8ms, 最长 = 107ms, 平均 = 33ms

C:\Users\cfx>
```

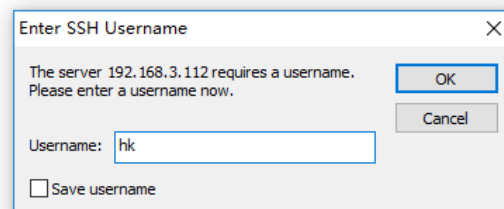
1-1-4 Connect EldersSensRouter by SSH.

On the PC side, open the putty software, input the IP address from the previous step, connect EldersSensRouter.



1-1-5 Login.

When SSH connects to ElderSensRouter, it will ask for input account and password, enter the account name "hk", and password "hkhkhk".



1-1-6 Open configuration file.

After entering the account, you can enter the command :

"vi /etc/wpa_supplicant/wpa_supplicant.conf" then click enter, to enter the configuration file to configure the network.

```
The programs included with the Debian GNU/Linux system are free software;  
the exact distribution terms for each program are described in the  
individual files in /usr/share/doc/*/copyright.  
  
Debian GNU/Linux comes with ABSOLUTELY NO WARRANTY, to the extent  
permitted by applicable law.  
Last login: Mon Apr  2 08:17:06 2018 from 192.168.43.179  
hk@raspberrypi:~$ vi /etc/wpa_supplicant/wpa_supplicant.conf  
input cmd then click enter
```

ssh2: AES-256-CTR 9, 61 24 Rows, 80 Cols VT100 CAP NUM

1-1-7 Edit configuration file.

After open the configuration file, click the keyboard key "i" into the edit mode, you can see that the configuration file has set up several networks. After the edit is completed, click the keyboard Esc button, and then enter ":wq" to save and exit.

```
ctrl_interface=DIR=/var/run/wpa_supplicant GROUP=netdev  
update_config=1  
country=GB  
  
network={  
    ssid="SM919"  
    psk="zhcfx906"  
    key_mgmt=WPA-PSK  
}  
network={  
    ssid="ChuangFeixin"  
    psk="zhcfx906"  
    key_mgmt=WPA-PSK  
}  
Here, input your network ssid and psk  
~  
~  
~  
~  
~  
-- INSERT --
```

default network

network 2

you could set a network here

16,6 All

1-1-8 Do reboot.

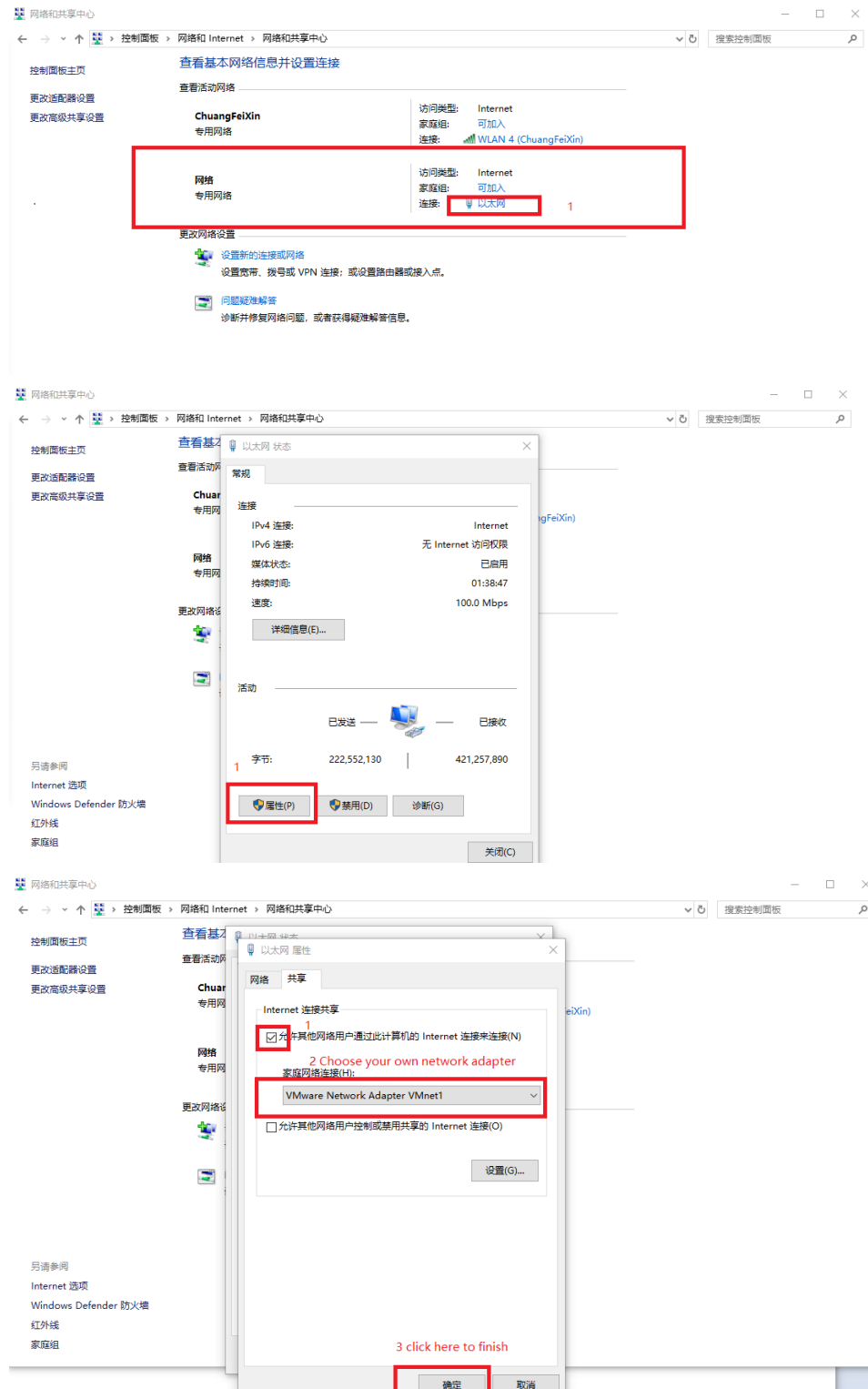
After that, we will go back to the command line mode, enter the command "sudo reboot", and confirm that ElderSensRouter will be restarted. After restarting, the network will be automatically set up according to priority.

1-2 Configuring WiFi using network lines

1-2-1 open the PC local wired network sharing item.

The connection between ElderSensRouter and PC can be built through the network cable. It

is necessary to open the PC local wired network sharing item first.



1-2-2

Then we could do the same things, connect Router with ssh, the same as steps 1-1-3 to 1-1-8.

Be careful

Please save the default network, so that it can still reset after the network settings are wrong.