

# RaspberryPi folder sharing configuration

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13/03/2022

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## 1. Settings in RaspberryPi

### 1.1 Install the wifi module

Because there is no wifi connection module in Raspberry Pi, so each time when it is reboot, a wifi module have to be download with a wired network with wire network is connected:

```
sudo dhcpcd -4
```

Then the Pi can successfully connect to a wifi network.

### 1.2 Connect Pi in a local area network by wifi

Don't forget to write down the ip address of the Raspberry Pi (e.g. 172.29.18.245).  
Can use a command to know the detail:

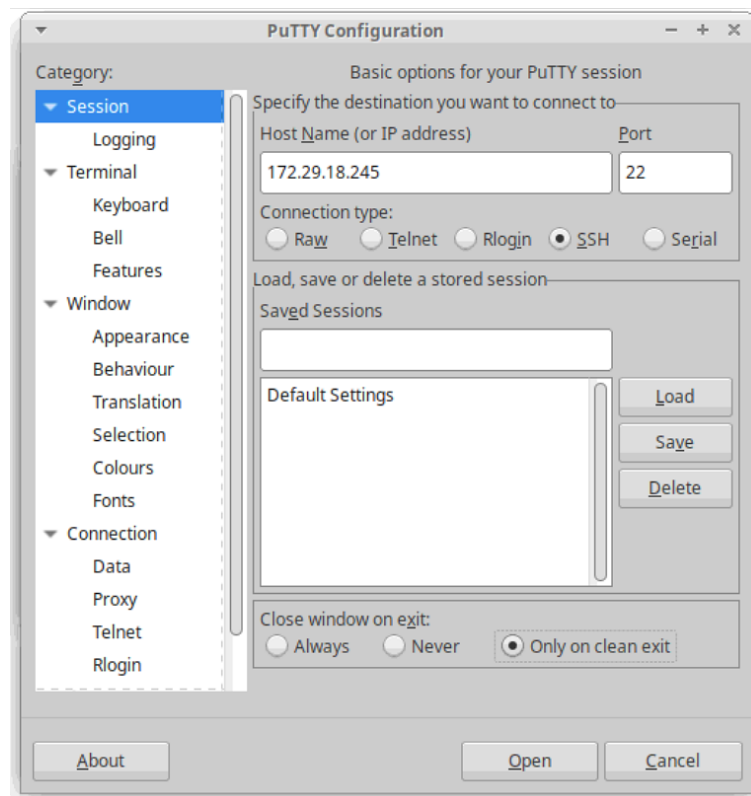
```
ipconfig
```

## 2. Settings in PC

2.1 Connect the pc to the local area network where the raspberry pi is located

### 2.2 PuTTY configuration

Firstly make sure PuTTY is installed on the PC. Then in 'PuTTY SSH Client' application, input the ip address of Raspberry Pi (e.g. 172.29.18.245) and the username/password.



*Port: 22*

*Connection type: SSH*

*Close window on exit: Only on clean exit*

*Username: pi*

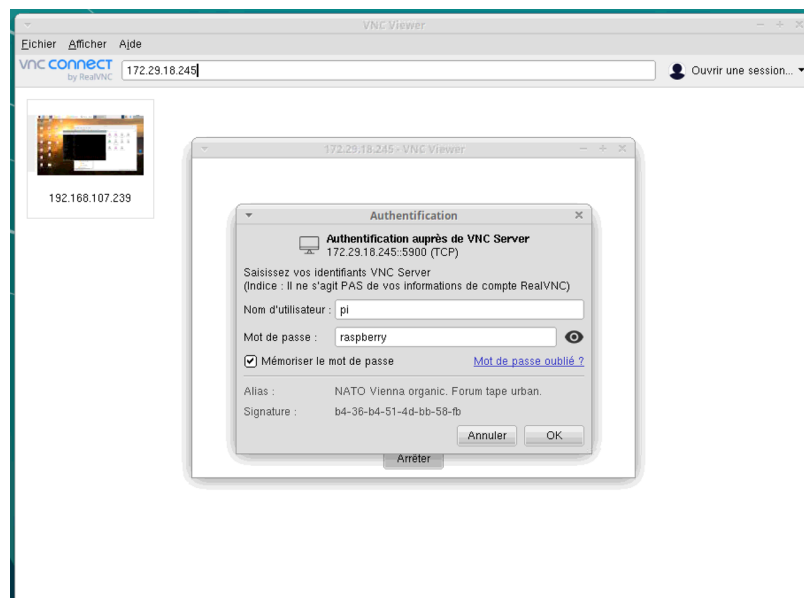
*Password: raspberry*

Then the PC is successfully connected with the Pi.

```
pi@raspberrypi:~  
login as: pi  
pi@172.29.18.245's password:  
Linux raspberrypi 5.10.60-v7l+ #1449 SMP Wed Aug 25 15:00:44 BST 2021 armv7l  
  
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: Tue Mar 15 10:41:34 2022  
  
SSH is enabled and the default password for the 'pi' user has not been changed.  
This is a security risk - please login as the 'pi' user and type 'passwd' to set  
a new password.  
  
pi@raspberrypi:~$
```

### 3. Using graphical interface of Pi in PC

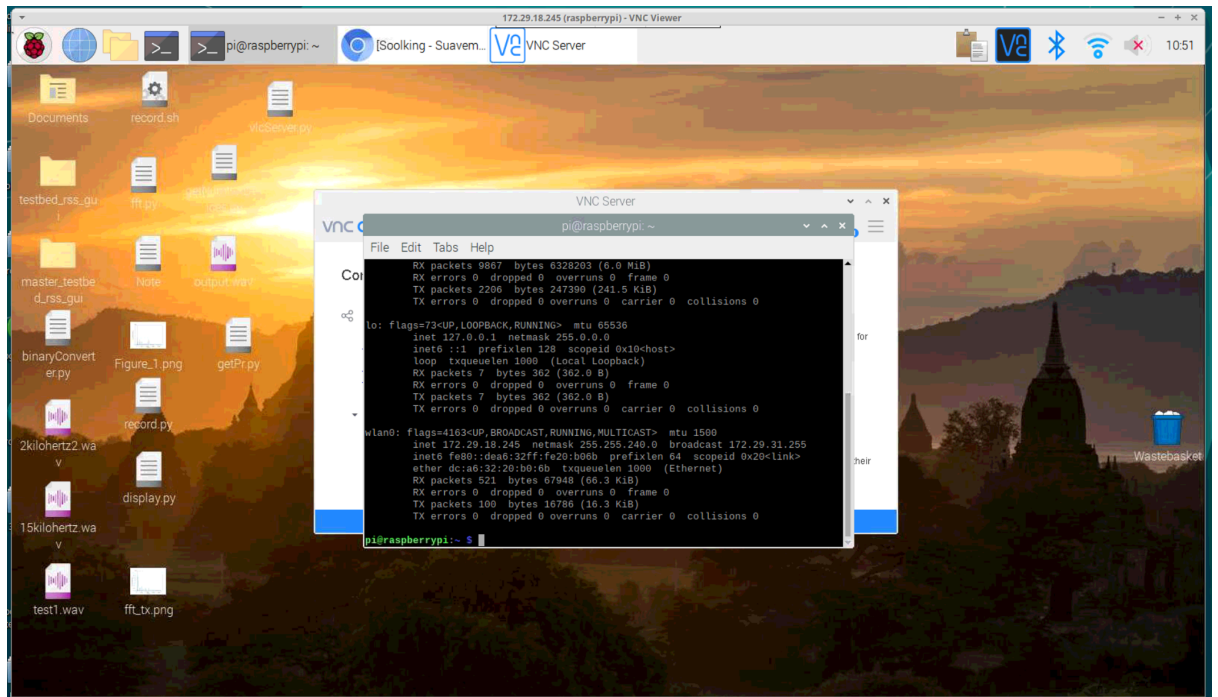
If we want to use the graphical interface of Pi, a VNC server application is needed. Download this application in PC and Pi, use the ip address of Raspberry Pi (e.g. 172.29.18.245) , username and password can make the connection:



*Username: pi*

*Password: raspberry*

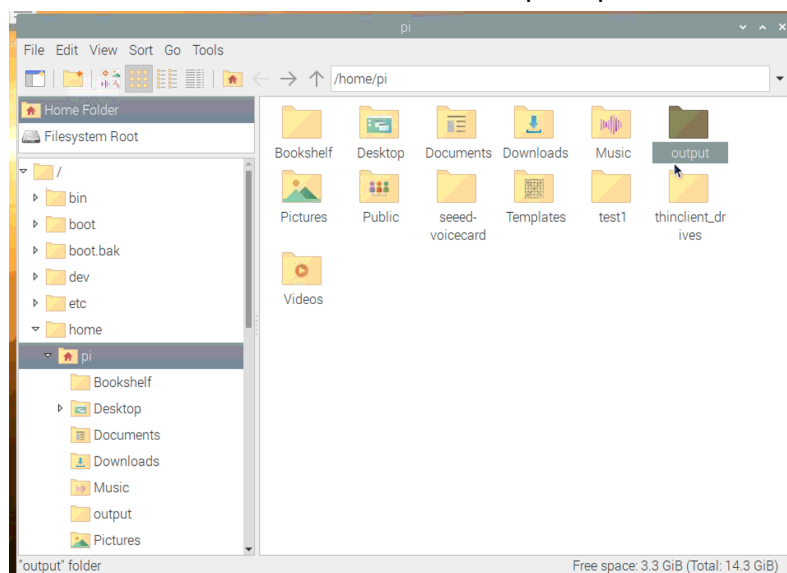
Then the graphical interface of Pi can be shown on PC.



## 4. Shared folders between Pi and PC

### 4.1 Specify a folder to share

Specify a folder in Pi in : /home, such as: /home/pi/output



### 4.2 Upload settings

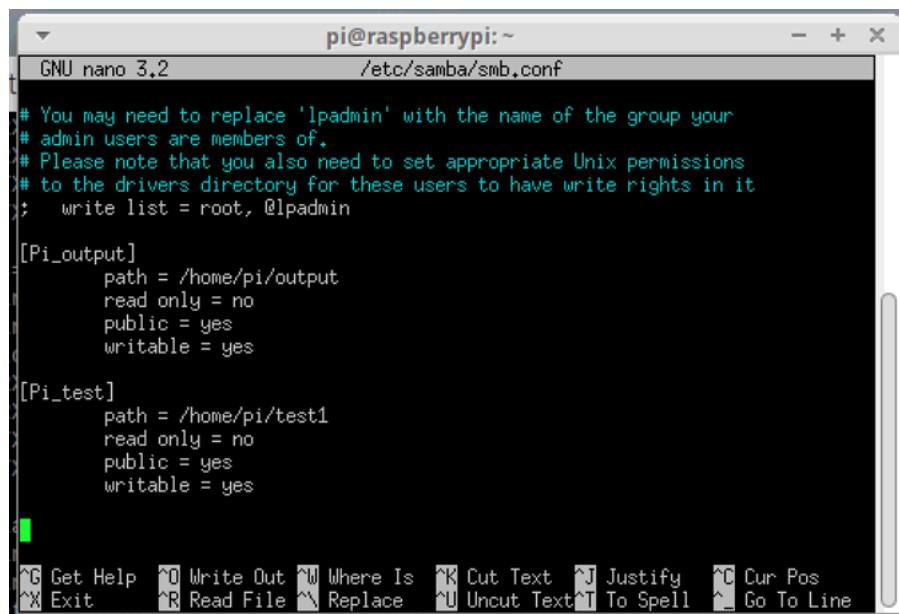
In Raspberry Pi, execute following commands:

```
sudo nano/etc/samba/smb.conf
```

In this config file, add following contents at the end of the file:

```
[Pi_output]
path = /home/pi/output
read only = no
public = yes
writable = yes
```

Then save and quit.



```
pi@raspberrypi: ~
GNU nano 3.2 /etc/samba/smb.conf
# You may need to replace 'lpadmin' with the name of the group your
# admin users are members of.
# Please note that you also need to set appropriate Unix permissions
# to the drivers directory for these users to have write rights in it
; write list = root, @lpadmin

[Pi_output]
  path = /home/pi/output
  read only = no
  public = yes
  writable = yes

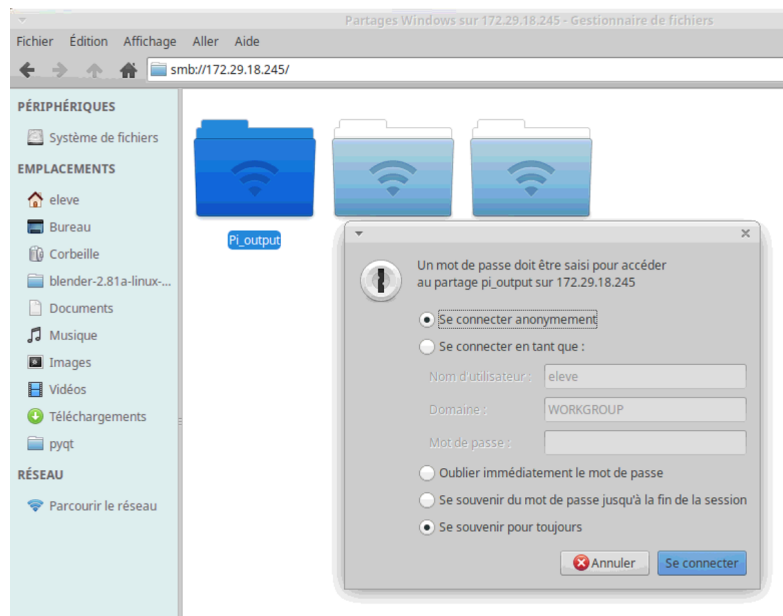
[Pi_test]
  path = /home/pi/test1
  read only = no
  public = yes
  writable = yes

^G Get Help  ^O Write Out ^W Where Is  ^K Cut Text  ^J Justify   ^C Cur Pos
^X Exit      ^R Read File ^M Replace   ^U Uncut Text ^T To Spell  ^_ Go To Line
```

### 4.3 Check shared folders in PC

With the connection of PuTTY, open the network in the file management. find the 'raspberrypi' folder. This folder represents documents in Raspberry Pi. In ubuntu, input the file path with the ip address of Pi (e.g. 172.29.18.245):

```
smb://172.29.18.245
```



Open it, the shared folder 'Pi\_output' can be found. The two folders are synchronized, any modification and deletion will take effect on both devices at the same time.

