

Connect to RPi

Assumption:

- Computer with Ubuntu 20, Raspberry Pi with Raspbian OS.
- Both RPi and Computer are connected to the same router.
- There is only 1 Raspberry Pi connected to the same network, or you know the MAC address of your Raspberry Pi.

1. Find IP Address of RPi

Option 1

1. On Ubuntu, run following command to list IP of all connected devices in the same network.

```
1 | sudo nmap -sn 10.42.0.0/24 | awk '/Nmap scan report for/{printf $5;}/MAC Address:/{print "\t" substr($0, index($0,$3)); }' | sort
```

2. Find the corresponding IP address of Raspberry Pi by its MAC address.
 - Note: Both ethernet and wifi adapter have their own MAC address. Use wifi adapter IP address if it is connected through wifi.

Option 2

If raspberry pi is setup with GrovePi+, scripts can be used to display IP address on LCD display. You may need to wait for less than a minute before IP is displayed.

2. Connect by SSH

Windows

Install [BitVise Client](#), which provides both SSH terminal and SFTP for file transfer.

Ubuntu

Use built-in `ssh` command to connect.

```
1 | ssh pi@<IP>
```

For file transfer, install [Snowflake](#).

3. Connect by XRDP

Apart from VNC, we can also use XRDP to connect to RPi desktop.

On RPi

Raspberry Pi needs to be setup before it can be connected through rgemote desktop.

1. On Raspberry Pi, install RDP and enable it for all future sessions.

```
1 | sudo apt update
2 | sudo apt install xrdp
3 | sudo systemctl status xrdp
4 | sudo systemctl enable xrdp
```

2. Reboot Raspberry Pi

```
1 | sudo reboot now
```

On Ubuntu

On Ubuntu or any Linux OS, use [Remmina](#) to connect to RPi.

On Windows

For Windows, use built-in Remote Desktop program to connect.