

Ubuntu 22.04 LTS VNC/RDP setup process for Raspberry Pi

Step 1

Download the latest Ubuntu 22.04 LTS.img from the Ubuntu site and flash it to your SD card. Once flashed, put the card into your Pi, connect to a monitor, keyboard and mouse, boot up, connect to your wifi router, configure and update your Pi. Choose Auto-login on boot.

After the update, disable Wayland display by uncommentating `WaylandEnable=false` in

```
sudo gedit /etc/gdm3/custom.conf
```

Now Reboot the Pi

Step 2

Install xrdp, enable it, create a static IP and allow access via terminal:

```
sudo apt install xrdp
sudo systemctl enable xrdp
```

If you want a static IP do the following (remember to put in the IP address you want. Here I am using 10.42.0.1/24, you can use what ever you want)

```
sudo ufw allow from 10.42.0.1/24 to any port 3389
```

The above will automatically set **Settings -> Sharing** to **ON** and Remote Desktop to **ON**

If it doesn't, do it manually or see "How to Enable Remote Desktop on Ubuntu Desktop 22.04 LTS.pdf" document.

Step 3

Install and create a dummy monitor with the correct resolution. This is required because VNC doesn't work if a physical monitor is not plugged into your Pi, so you need to trick it) via terminal:

```
sudo apt-get install xserver-xorg-video-dummy
```

Create a file called xorg.conf in /etc/X11 via terminal:

```
sudo gedit /etc/X11/xorg.conf
```

and add the following lines to xorg.conf, save and exit.

```
Section "Device"
    Identifier "DummyDevice"
    Driver "dummy"
    VideoRam 256000
EndSection
```

```
Section "Screen"
  Identifier "DummyScreen"
  Device "DummyDevice"
  Monitor "DummyMonitor"
  DefaultDepth 24
  SubSection "Display"
    Depth 24
    Modes "1920x1080_60.0"
  EndSubSection
EndSection
```

```
Section "Monitor"
  Identifier "DummyMonitor"
  HorizSync 30-70
  VertRefresh 50-75
  ModeLine "1920x1080" 148.50 1920 2448 2492 2640 1080 1084 1089 1125 +Hsync
+Vsync
EndSection
```

Step 4

Active Sharing in Ubuntu by going to **Settings -> Users**

Make sure auto login is on (It should already be if you followed Step 1 of setup, if not turn it on).

In Ubuntu **Settings -> Privacy -> Screen**

Make sure:

- Blank Screen Delay Never
- Automatic Screen Lock Off
- Lock Screen on Suspend Off
- Show Notifications on Lock Screen Off

Step 5

Set Authentication password so it does not dynamically change on reboots. Create a file called **password_fix.desktop** in the auto-start directory via terminal:

```
sudo gedit .config/autostart/password_fix.desktop
```

and add following to **password_fix.desktop** (just change username to your computer username and password)

```
[Desktop Entry]
Type=Application
Name=Password Fix
Comment=Corrects password in Settings > Users for use by Remmina
Exec=/usr/bin/python3 -c "import
keyring;keyring.set_password('login','username','password');"
```

Step 6

Create a hotspot, got **Settings** → **Wi-Fi** and in the top right hand corner of the window, click on the 3 vertical dots, hit **Turn ON Wi-Fi Hotspot**

Give the hotspot a name and password and exit.

Finally forget the wifi router you are connected too. Then on reboot, Ubuntu will automatically boot into Hotspot mode.

Goto Passwords and Keys (search ubuntu). On the left hand side, under Passwords, right click on Login, and select Change Password from the menu. Enter your current password, and then when asked for a new password, leave it blank. You will get a warning that passwords will be stored unencrypted, but Screen Sharing will now remember the password without you having to unlock gnome-keyring every login.