

# Configuring Andoid Display with PI

muhammad.imran@miun.se, Mid Sweden University, Sweden.

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By using VNC server client application you can turn the Raspberry PI into portable desktop. It is good to assign static IP so your client device work directly without need to check the IP address of PI first by using standard monitor.

## 1. Install VNC client on the TAB/mobile.

From apps store

## 2. Install VNC server on Raspberry PI

For installing VNC server in Raspberry PI, you will normally follow these steps

1. Install tightvnc server on PI  
`sudo apt-get install tightvncserver`
2. Starting the server with following parameters  
`vncserver :1 -geometry 1200x720 -depth 16`
3. First time when you run the above command, you will be asked for a password which the user must use to connect to the PI via the VNC. Note that password is 8 characters only. A message will appear stating that settings have been saved in `/home/pi/.vnc`. You now have a running server.
4. By default the vnc server starts running on port 5900. `:1` is the display number.

## 3. Connecting to PI from Client device

In the VNC client make a session and enter the IP address followed by `:1` or the the number which you specified in step 2.

For example my session would be

`10.14.15.10 :1`

There are three ways to get IP address from Raspberry PI.

- IP over USB by using USB tethering.
- IP over Wifi
- IP over Ethernet cable

USB tethering will help to connect without the need for internet availability. Only thing you need is USB cable.

You can assign USB interface a static IP with following command.

`sudo nano /etc/network/interfaces`

add these line in the file, save and exit (CTRL+X and Y)

```
iface usb0 inet static
address 192.168.42.30
netmask 255.255.255.0
network 192.168.42.0
broadcast 192.168.42.255
```

## 4. Starting VNC at ever start up of PI

This step would eliminate the need to start VNC server every time you start the PI. Explain in reference [1].

## 5. Killing VNC server

`vncserver -kill :1`

## 6. Killing any process

List processes

`ps -ef`

kill any process by giving its PID

`kill -9 PID`

**References:**

- [1]. <http://joshuawoehlke.com/android-raspberry-pi-display-over-usb/>
- [2]. <http://www.everydaylinuxuser.com/2013/02/connecting-via-vnc-to-raspberry-pi-from.html>