



How to use iOS devices as a monitor of Raspberry Pi

by **Being Engineers** on October 9, 2016

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Author: Being Engineers

We run YouTube channel and provide some video tutorials on electronics and programming and also videos on cool projects - how to make them, tech news and more. Subscribe to our channel. :)

Intro: How to use iOS devices as a monitor of Raspberry Pi

If you are watching this tutorial, then you must know about Raspberry Pi and its use. So without making more delay let's start this **Instructable**. But before that, I want to clarify something:

1. I have used **Raspbian** OS in this case.
2. It is one of the many ways by which you can get the same result. So if you don't feel comfortable you can use other methods also. Please let me know the process in which you are comfortable in.
3. The apps I have used is available in **app Center** and found these very helpful and easy to use. Feel free to tell me what are the other software that can be used.
4. The whole process will take about 2-3 minutes, though it mainly depends on your internet connection speed.
5. We have also made three other instructables about the following topics based on Raspberry PI -
 - How to install operating system in Raspberry PI. - <http://www.instructables.com/id/HOW-TO-INSTALL-RAS...>
 - How to use android device as a monitor for Raspberry PI. - <http://www.instructables.com/id/HOW-TO-USE-ANDROID...>
 - How to use Linux based laptop as Raspberry PI monitor - <http://www.instructables.com/id/How-to-Use-Your-Li...>

Check these out if you are interested.

6. We have a separate video demonstrating the whole process. Here's the link:

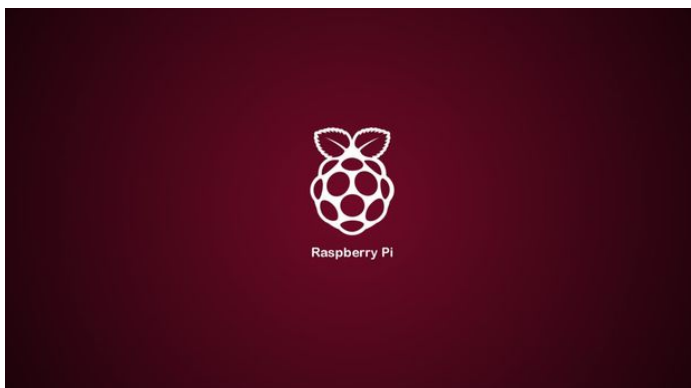


Step 1: Install operating system in Pi

You can skip this step if you have installed the OS already in the Pi.

If yes then go to step 2 or else look the complete OS installing instructions in this link that I uploaded.

<http://www.instructables.com/id/HOW-TO-INSTALL-RAS...>



<http://www.instructables.com/id/How-to-Use-Ios-Devices-As-a-Monitor-of-Raspberry-P/>

Step 2: Download required apps

You have to download following two apps from ios app store -

1. VNC Viewer
2. vSSH Lite

After downloading these go to step 3

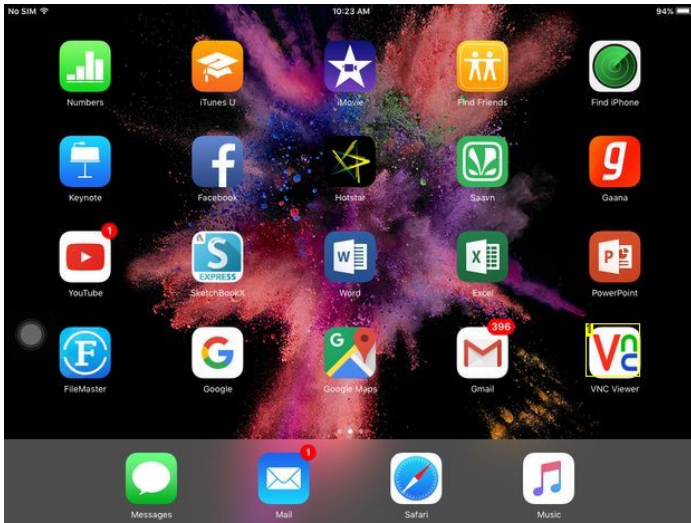


Image Notes
1. VNC Viewer



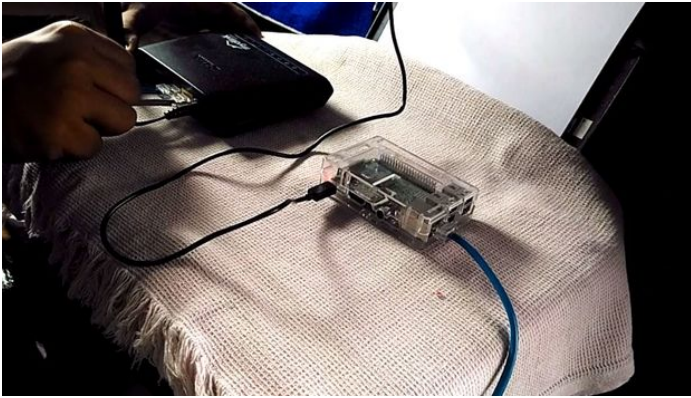
Image Notes
1. vSSH Lite

Step 3: Power up Pi and connect with router

Connect USB power adapter to your Pi (5V-2A recommended).

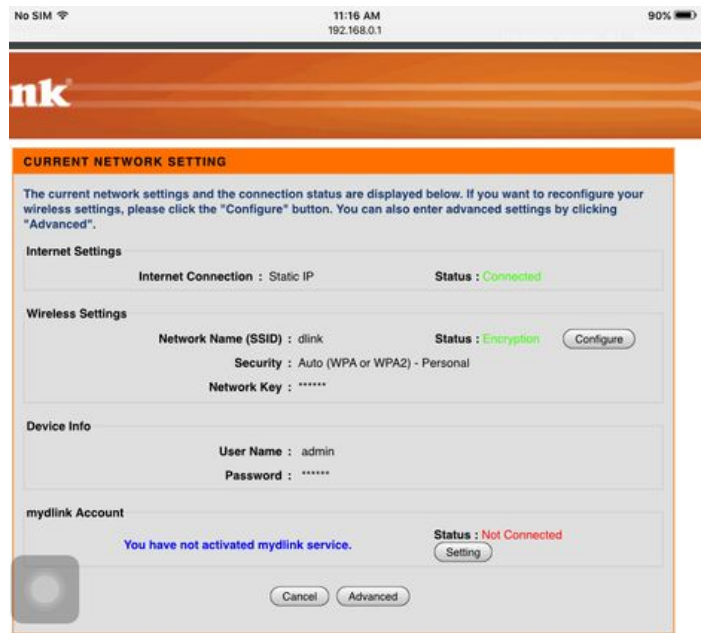
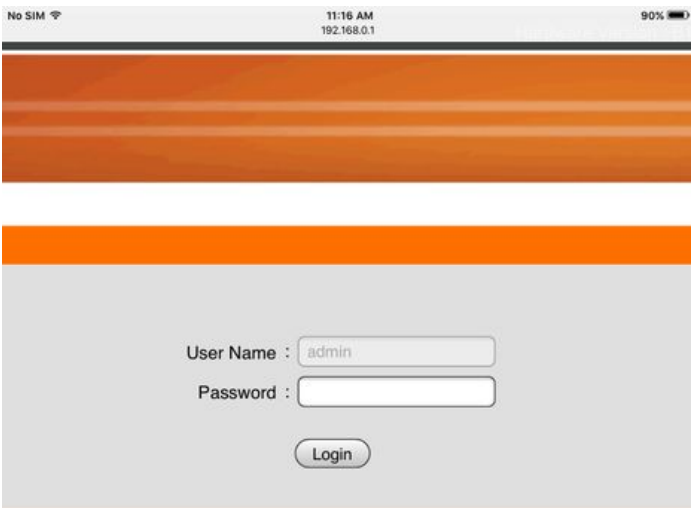
Connect the Ethernet port of Pi to the LAN port of your router.





Step 4: Find your Raspberry Pi IP address

1. Open your browser.
2. Go to your router IP (for me, it was 192.168.0.1. You can find it on the router sticker.)
3. Login to your router settings
4. Search for LAN ports.
5. Find Raspberry Pi in the list and note the IP address (for me, it was 198.162.0.103.)



DHCP SERVER SETTINGS

Use this section to configure the built-in DHCP Server to assign IP addresses to the computers network.

Enable DHCP Server :

DHCP IP Address Range : to (address within the LAN subnet)

DHCP Lease Time : (minutes)

DHCP CLIENT LIST

Host Name	IP Address	MAC Address	Expired Time
Souvick-PC	192.168.0.102	0c:d2:92:5f:ae:a6	Never
SAHA-PC	192.168.0.100	34:68:95:38:7e:27	3 Hours 49 Minutes
android-bf9ad3897c5adbb9	192.168.0.101	0c:b3:19:a5:19:86	22 Hours 40 Minutes
iPad	192.168.0.103	a8:fa:d8:52:62:12	23 Hours 58 Minutes
android-df3bd1b09ac05278	192.168.0.104	98:0c:a5:d7:69:e8	21 Hours 10 Minutes
android-b0f4127790756707	192.168.0.105	2c:56:dc:05:36:7f	20 Hours 48 Minutes
raspberrypi	192.168.0.106	b8:27:eb:91:00:c3	22 Hours 36 Minutes

AVOID ARP ATTACK

Avoid Arp Attack :

24--DHCP RESERVATION

Remaining number of clients that can be configured : 23

Image Notes

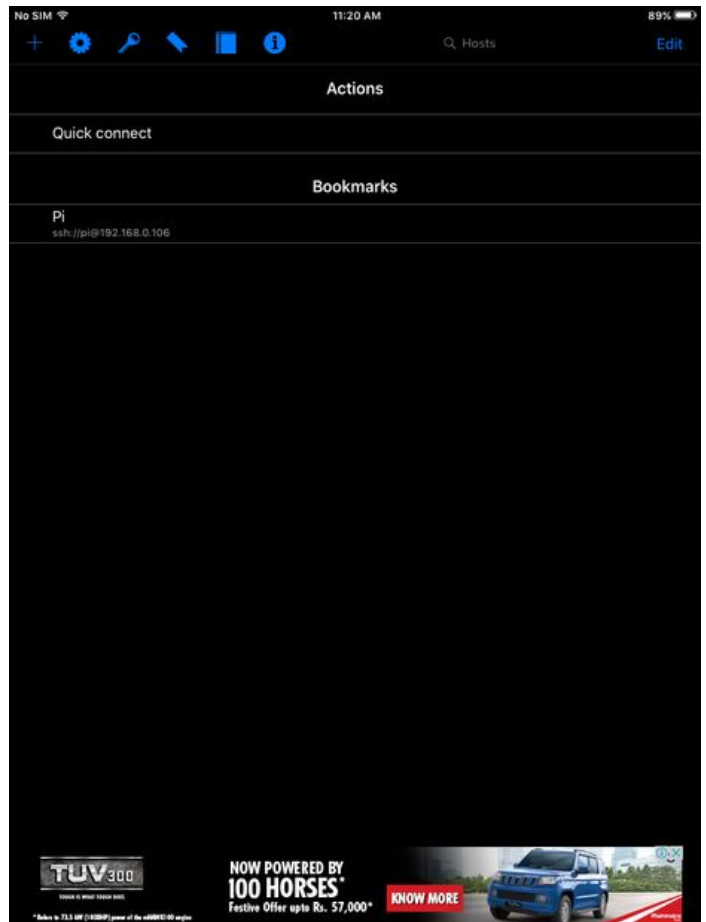
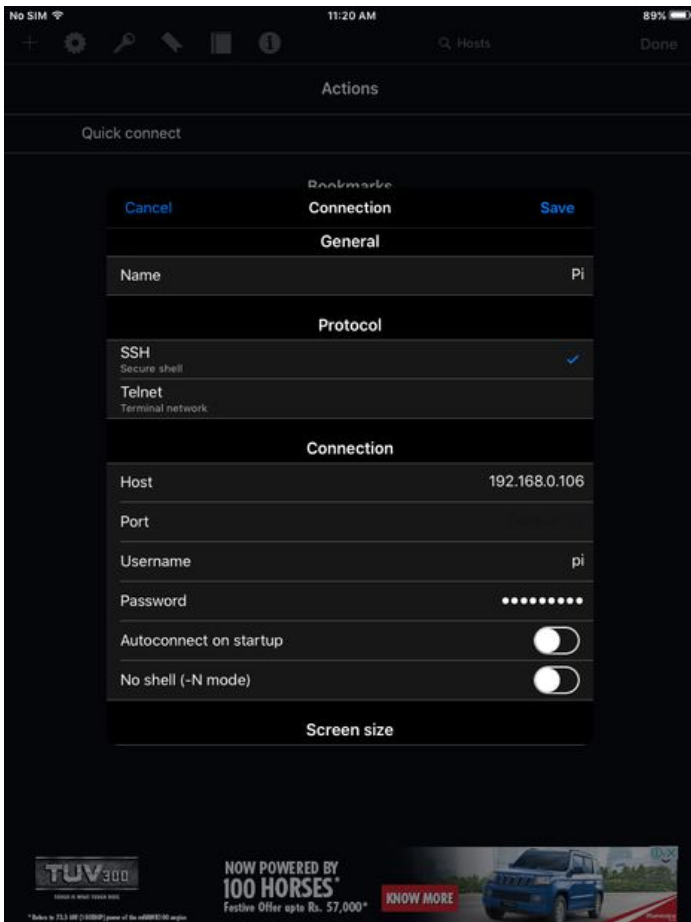
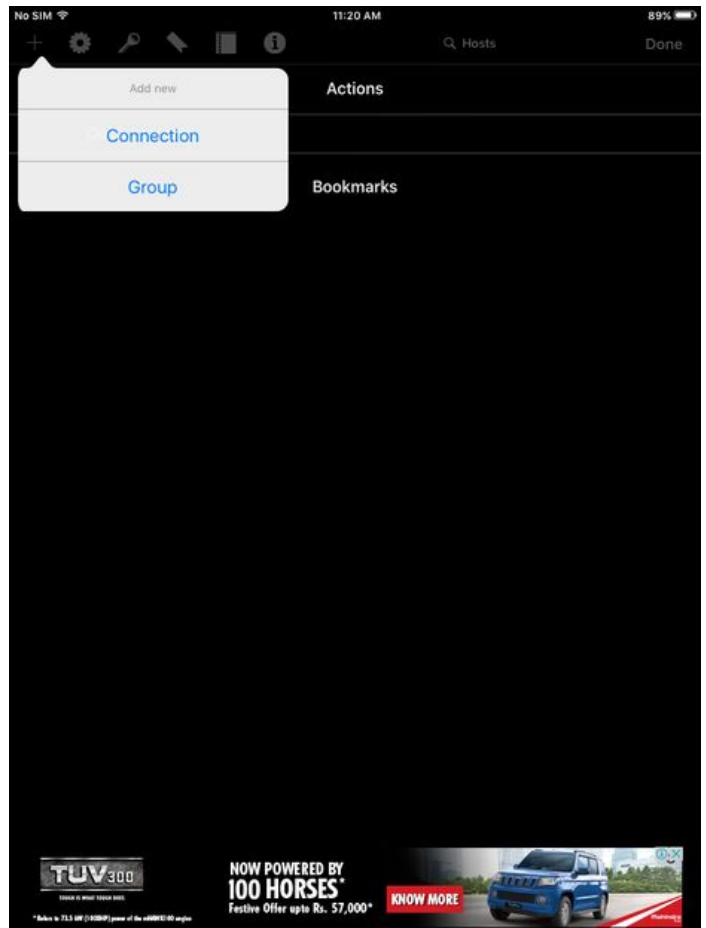
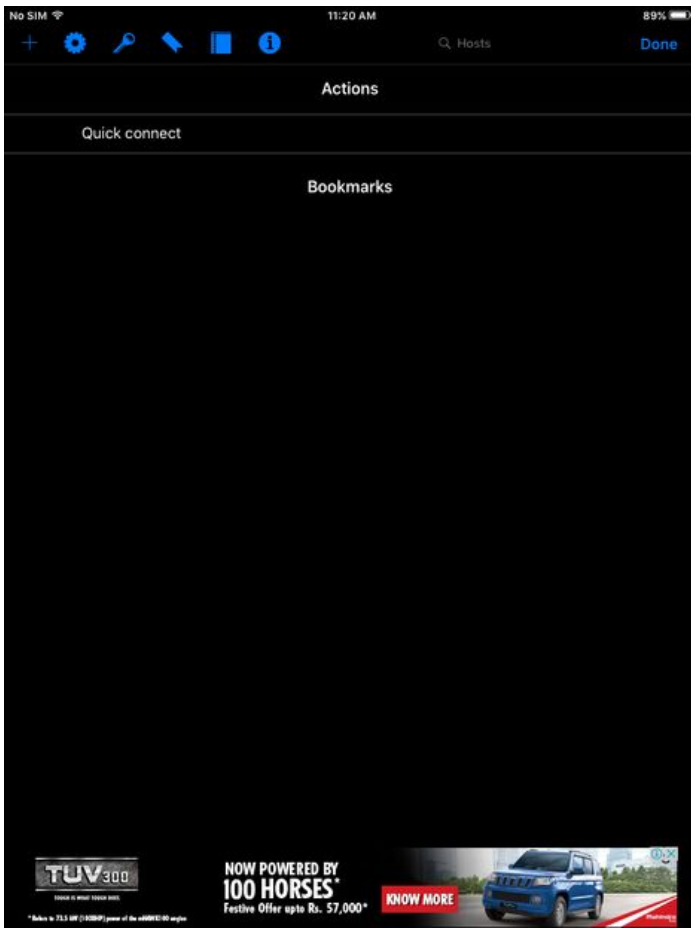
- 192.168.0.106

Step 5: Create SSH connection with your PI

Now open vSSH Lite app.

1. Tap on '+' icon to add a new connection.
2. Give any name to the new connection. Example - pi.
3. Check SSH.
4. **Type the IP** of PI in the host part.
5. Port is 22 by default.
6. Type in "pi" as username and "raspberrypi" as password.
7. Click on save and then tap on the newly created connection with name Pi.
8. Now you are logged in to your PI.
9. Type in the command - "sudo apt-get install tightvncserver" (Exclude " ")
10. When installation is completed again type "tightvncserver" and return.
11. It will ask for a password. **Give the password and give it again to verify.** Remember the password.
12. **Note down the desktop number.** Here it is 1.

Look at the screenshots for reference.



```
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: Wed Oct 12 04:25:21 2016 from 192.168.0.103
pi@raspberrypi:~$
```



```
11:21 AM
[en-IN] pi@raspberrypi:~ (ssh)
Hosts
Debian GNU/Linux comes with ABSOLUTELY NO WARRANTY, to the extent
permitted by applicable law.
last login: Wed Oct 12 04:25:21 2016 from 192.168.0.103
pi@raspberrypi:~$ tightvncserver

New 'X' desktop is raspberrypi:2

Starting applications specified in /home/pi/.vnc/xstartup
Log file is /home/pi/.vnc/raspberrypi:2.log

pi@raspberrypi:~$
```



Step 6: Use vnc viewer to view PI screen in your ios device

Open **VNC Viewer** app.

Go to settings and create a new connection to the IP address of your PI. Give a colon after your IP address and type in your desktop number. like this - "192.168.0.106:1". For you it will be different.

Click on connect. If any security warning comes ignore that and continue. This is not harmful so be relaxed.

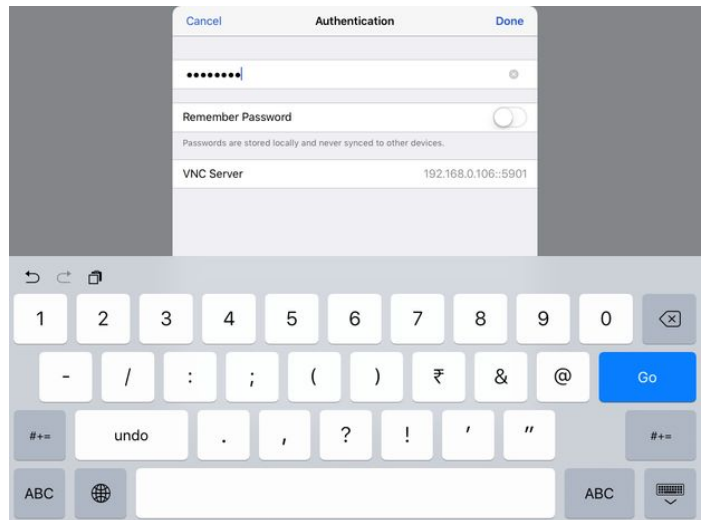
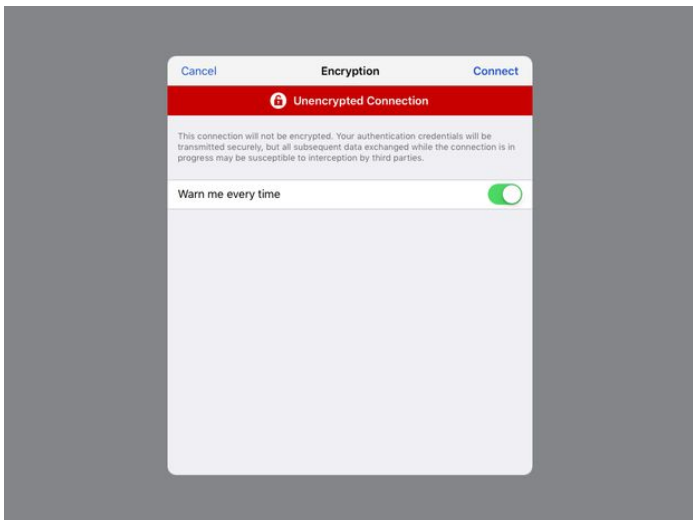
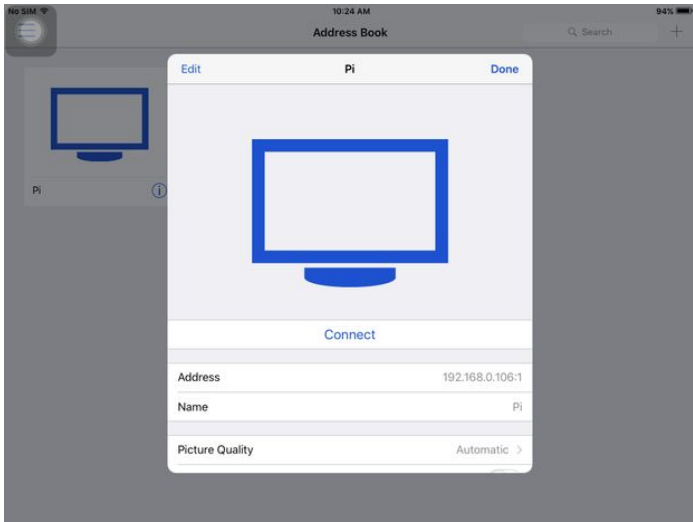
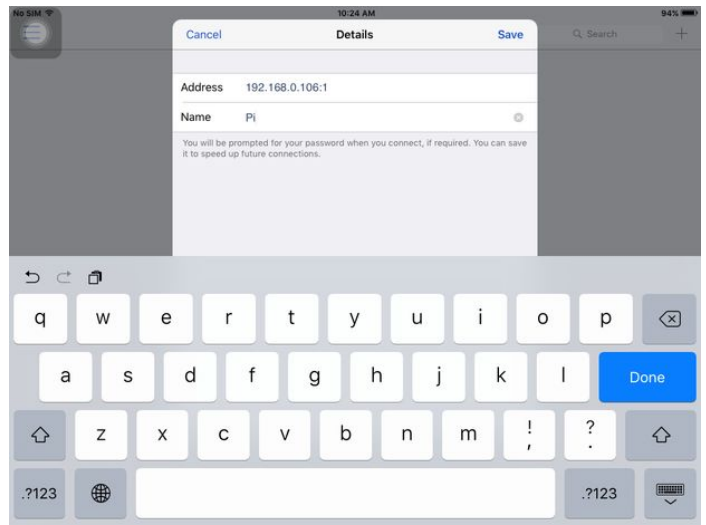
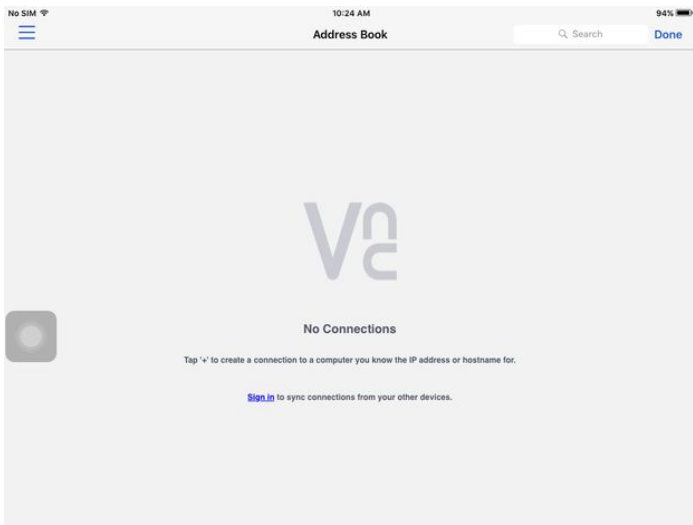
After that the **app will ask that password** which you have given in last step. Give that and **continue**.

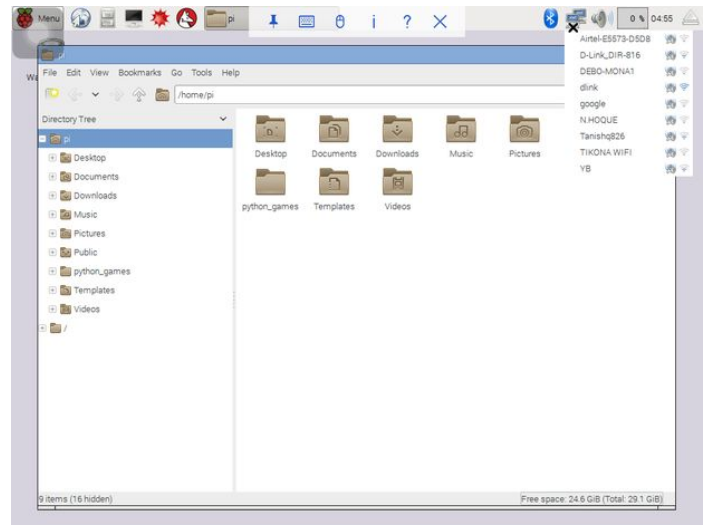
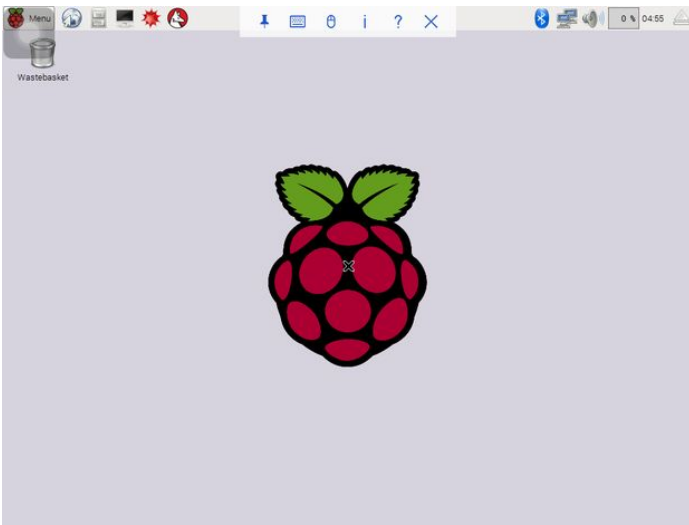
BINGO!! Now you are on the monitor of your raspberry.

So that's it. I have tried to write in brief because you can get the whole thing if you go through the pics provided step by step. In spite of that if you face any error or any difficulty in completing the process feel free to ask me in the comment.

Take a look at our **Youtube cannel 'Being Engineers'** - <https://www.youtube.com/channel/UCpB6R5qY3ZQf00C5K...>

Thank you.

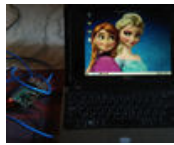




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How to connect raspberry pi to laptop display by prayag nao



Connecting Your Raspberry Pi to a Linux Laptop by fbooth



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Raspberry Pi - VNC & SSH by Bay Yolah



HOW TO USE ANDROID DEVICE AS RASPBERRY PI MONITOR by Being Engineers

Comments

2 comments

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Van Damage says:

Oh this is definitely a game changer for me, Will definitely be using this in the future

Oct 12, 2016. 8:49 AM [REPLY](#)



Being Engineers says:

Sure. :)

Oct 12, 2016. 9:10 AM [REPLY](#)