

## VNC

Virtual Network Computers allow you to remotely control computers over a network. VNC is a flexible protocol that has led to the creation of a number of powerful free and paid-for applications

## TightVNC

According to their [website](#):

What is TightVNC?

TightVNC is a free remote control software package. With TightVNC, you can see the desktop of a remote machine and control it with your local mouse and keyboard, just like you would do it sitting in the front of that computer. TightVNC is:

- free for both personal and commercial usage, with full source code available,
- useful in administration, tech support, education, and for many other purposes,
- cross-platform, available for Windows and Unix, with Java client included, compatible with standard VNC software, conforming to RFB protocol specifications.

With TightVNC, you can:

- cut your expenses and save your time on traveling,
- help your friends and family to solve problems with their computers remotely,
- make sure nothing wrong is happening on your computers when you are away.

## Installation

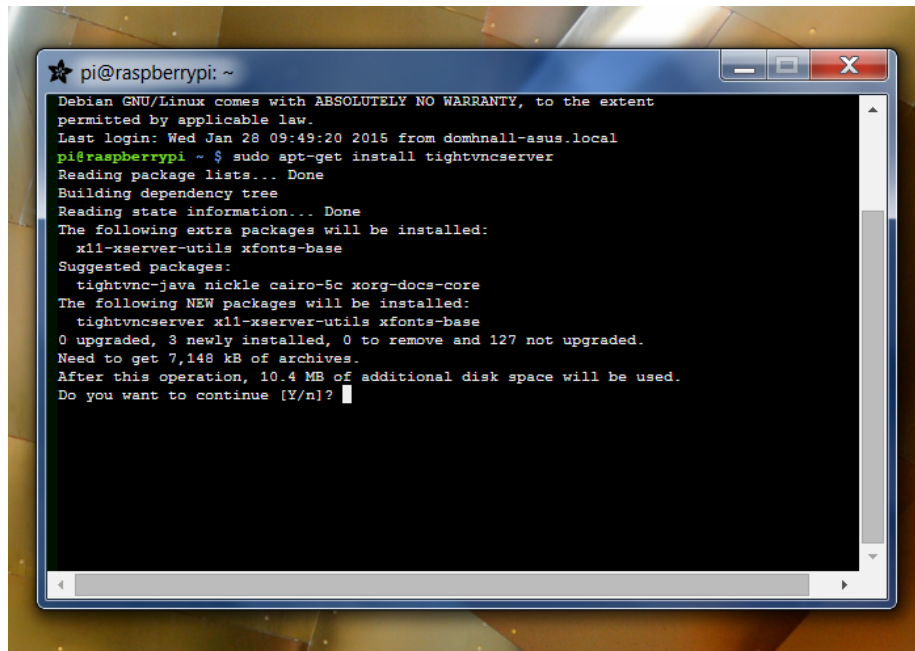
To install TightVNC Server on your Raspberry Pi Simply run the following command:

```
sudo apt-get install tightvnc server
```

Click Y on your keyboard to agree and install.

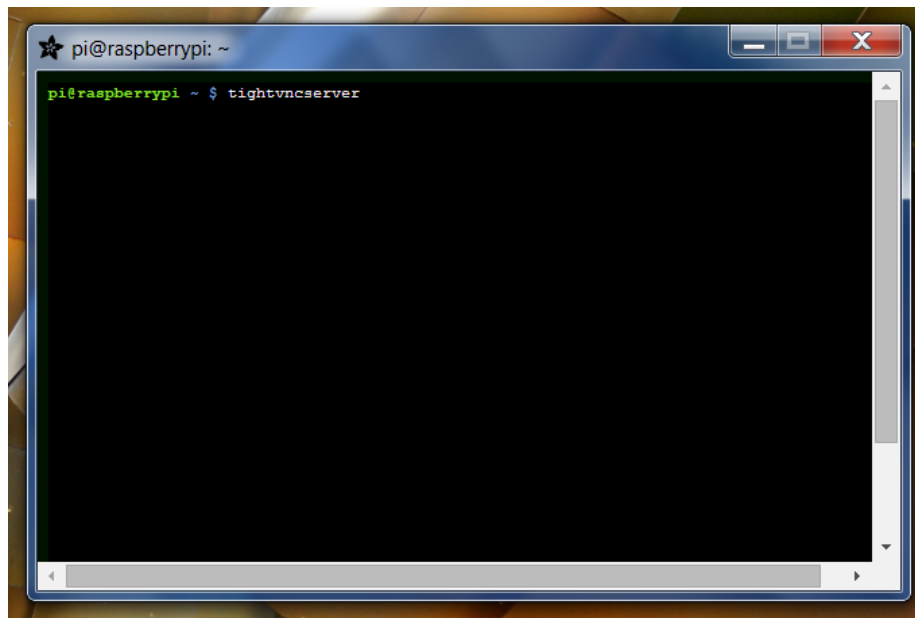
## Running

The first time to run tightvncserver you will be prompted to enter an 8 character password.

A terminal window titled "pi@raspberrypi: ~" with standard window controls. The terminal output shows the execution of "sudo apt-get install tightvncserver". It displays the Debian GNU/Linux warranty notice, the last login time, and the progress of the installation. It lists extra packages (x11-xserver-utils, xfonts-base), suggested packages (tightvnc-java, nickle, cairo-5c, xorg-docs-core), and the new packages to be installed (tightvncserver, x11-xserver-utils, xfonts-base). It also shows disk space requirements and asks for confirmation to continue.

```
pi@raspberrypi: ~  
Debian GNU/Linux comes with ABSOLUTELY NO WARRANTY, to the extent  
permitted by applicable law.  
Last login: Wed Jan 28 09:49:20 2015 from domhnall-asus.local  
pi@raspberrypi ~ $ sudo apt-get install tightvncserver  
Reading package lists... Done  
Building dependency tree  
Reading state information... Done  
The following extra packages will be installed:  
  x11-xserver-utils xfonts-base  
Suggested packages:  
  tightvnc-java nickle cairo-5c xorg-docs-core  
The following NEW packages will be installed:  
  tightvncserver x11-xserver-utils xfonts-base  
0 upgraded, 3 newly installed, 0 to remove and 127 not upgraded.  
Need to get 7,148 kB of archives.  
After this operation, 10.4 MB of additional disk space will be used.  
Do you want to continue [Y/n]?
```

Figure 1: Command Line

A terminal window titled "pi@raspberrypi: ~" with standard window controls. The terminal shows the command "tightvncserver" being entered at the prompt. The rest of the terminal is currently empty.

```
pi@raspberrypi ~ $ tightvncserver
```

Figure 2: run

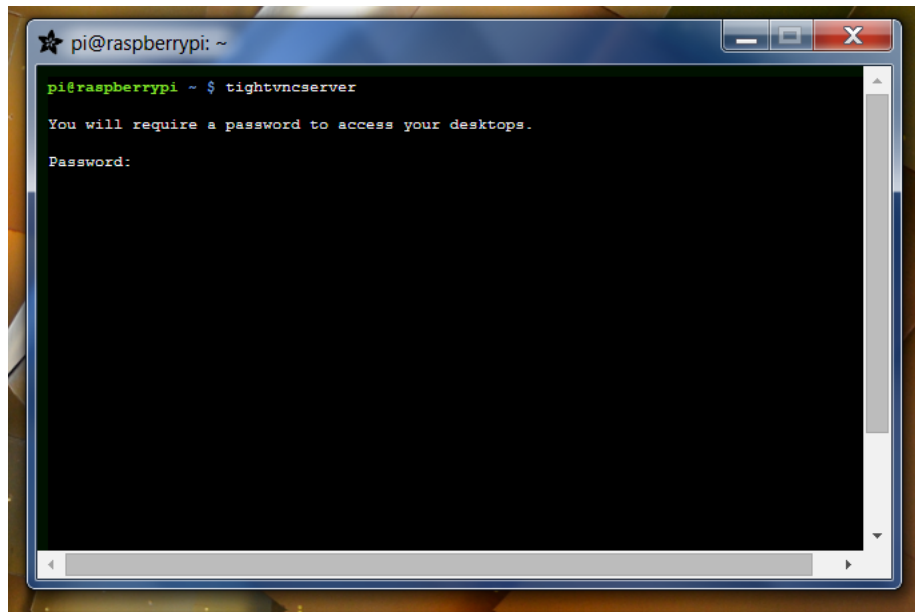


Figure 3: pw

### That's All Folks!

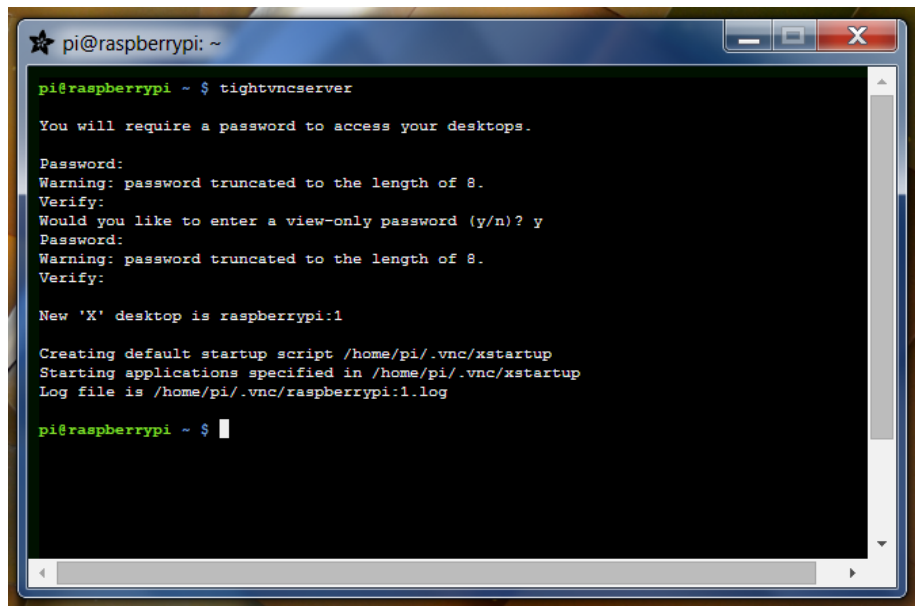
You don't have to specify a view-only password if you don't want to. Make a note of your VNC name, typically a number between 0 and 4. In the example below it's `raspberrypi:1`

That's everything you need to do to get `tightvncserver` running on your Raspberry Pi. If you know your IP address you can take remote control of your Pi using [a VNC client](#). If you're not sure of your IP you should probably [SSH in](#) and run `ifconfig` to find out.

### Summary

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A terminal window titled "pi@raspberrypi: ~" with standard window controls. The terminal shows the command "tightvncserver" being executed. The output includes a message about requiring a password, prompts for a password and its verification, a warning about password truncation, a prompt for a view-only password, and another password prompt and verification. It then announces a new 'X' desktop, creates a startup script, starts applications, and shows the log file path. The prompt returns to the user.

```
pi@raspberrypi ~ $ tightvncserver

You will require a password to access your desktops.

Password:
Warning: password truncated to the length of 8.
Verify:
Would you like to enter a view-only password (y/n)? y
Password:
Warning: password truncated to the length of 8.
Verify:

New 'X' desktop is raspberrypi:1

Creating default startup script /home/pi/.vnc/xstartup
Starting applications specified in /home/pi/.vnc/xstartup
Log file is /home/pi/.vnc/raspberrypi:1.log

pi@raspberrypi ~ $
```

Figure 4: running