Raspberry Pi

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Remote Access with TightVNC

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1 TightVNC is a remote control software that allows you to take control of a remote machine and use it just like you would if you were directly connected to it. First we need to install the TightVNC package on the Pi. Open a Terminal Window and execute the command:

```
$ sudo apt-get update

$ sudo apt-get install tightvncserver
```

! apt-get update simply ensures the software repository information for your Linux distribution is up to date. You usually run this before trying to install any new software on your Pi

2 When the installation is complete start the server. The first time your start VNC it will prompt you for a password. If you want to set a password for remote access now is the time to do it.

```
$ /usr/bin/tightvncserver
```

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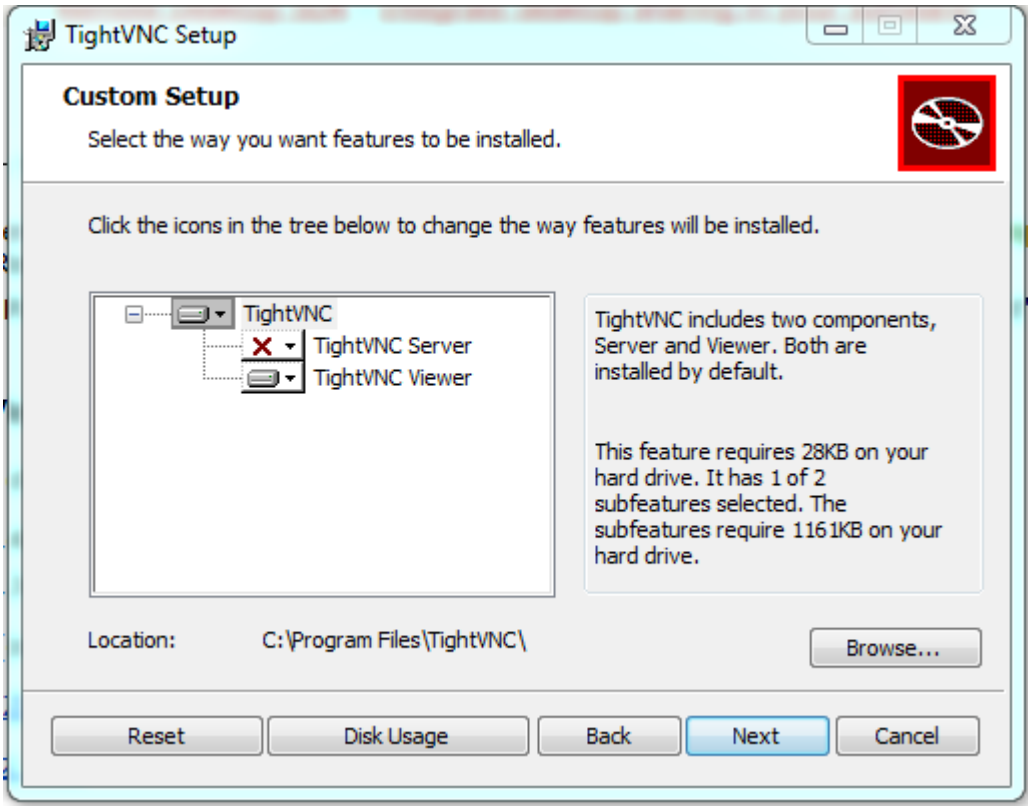
3 Now you will also need to install a Tightvnc viewer on your Windows machine. Go to http://www.tightvnc.com/download.php and download the appropriate installer. There is a java version which can be used on Apple machines, or you could choose to use that instead.

! When installing the windows package you only need to install the Viewer feature and not the Server (unless you want someone to remotely control your own machine!)



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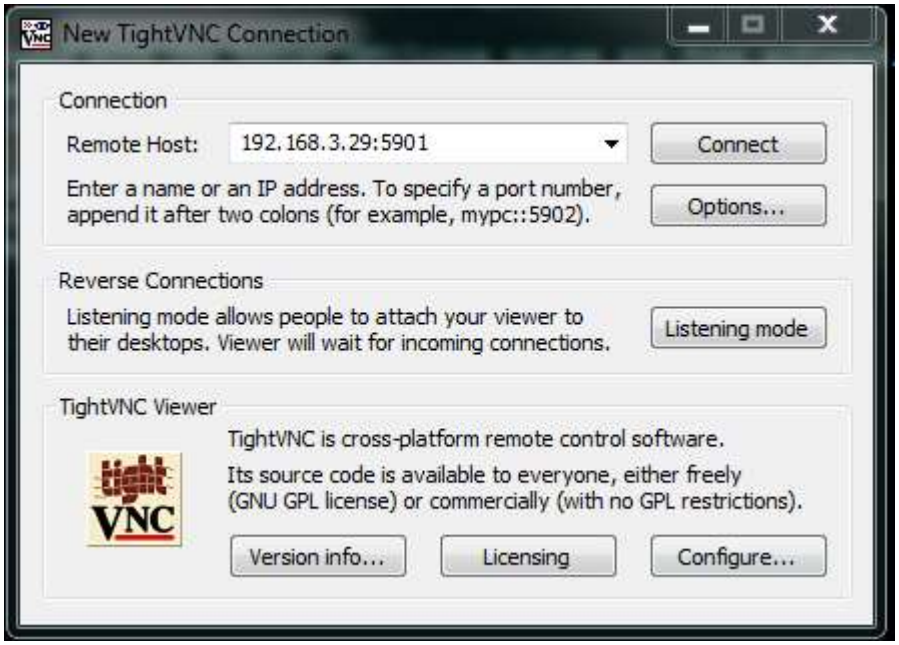
3 Now run the TightVNC viewer program (it will be in Programs:TightVNC)



Enter the IP Address for your Pi and make sure the default port of 5901 is used!

This shows the the Java client connection. A similar screen is displayed for the Windows client.

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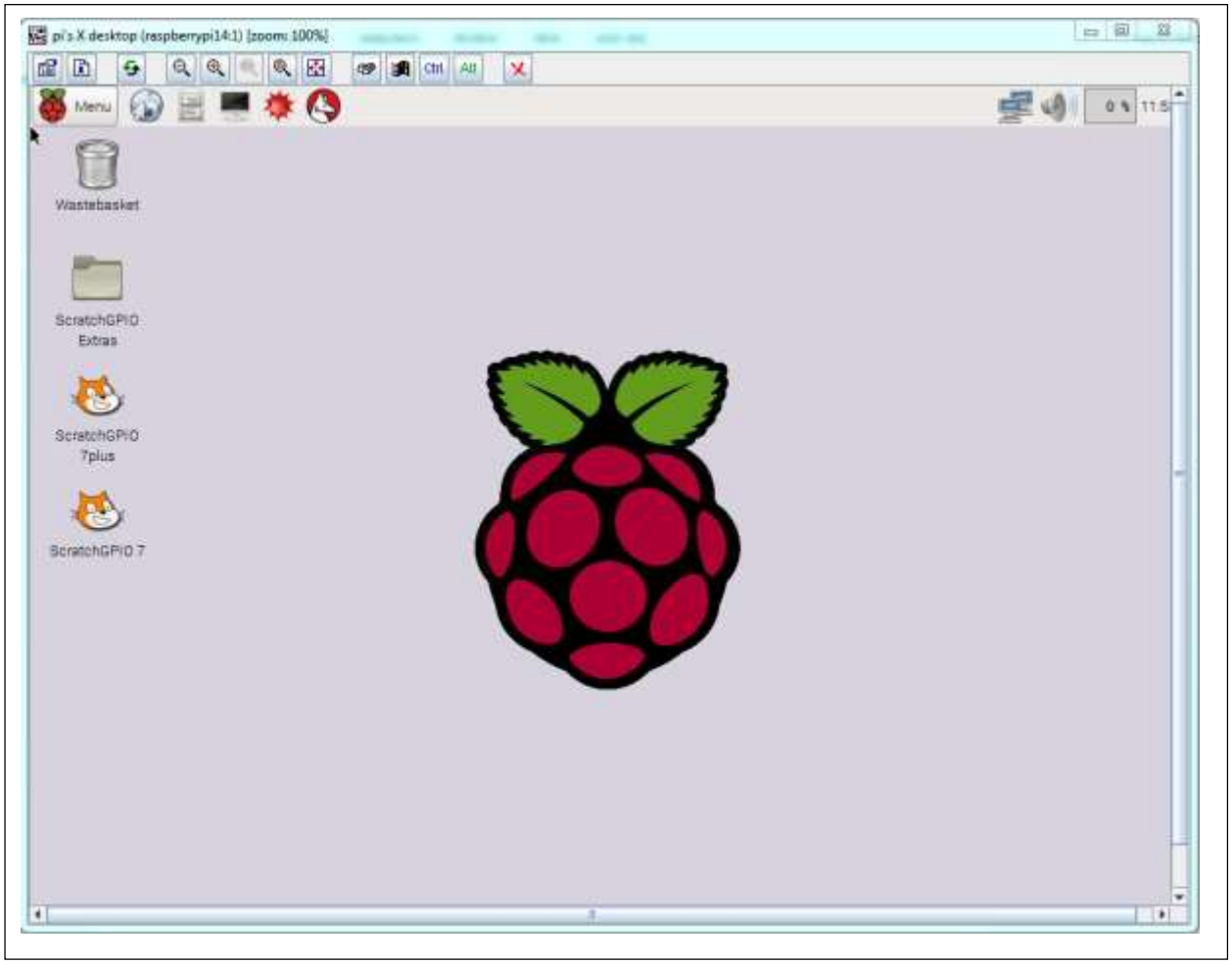
4 Your Pi Desktop should now be displayed and you have full control of your Pi without a monitor, keyboard or mouse!



5 The last step is to ensure that TightVNC is restarted when the Pi restarts. In a terminal window (or putty session) complete the following steps.

Create a new file for the tightvnc service:

```
$ sudo nano /etc/systemd/system/tightvncserver.service
```

Add the following lines:

```
[Unit]
Description=TightVNC remote desktop server
After=sshd.service

[Service]
Type=dbus
ExecStart=/usr/bin/tightvncserver :1
User=pi
Type=forking

[Install]
WantedBy=multi-user.target
```

Write out the changes and save the file.

Change the file so it is owned by root

```
$ sudo chown root:root /etc/systemd/system/tightvncserver.service
```

Make the file executable by running

```
$ sudo chmod 755 /etc/systemd/system/tightvncserver.service
```

Enable startup at boot using

```
$ sudo systemctl enable tightvncserver.service
```

To test reboot your Pi and check that you can still access it remotely.

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More information about installing and using TightVNC can be found at

http://www.penguintutor.com/linux/tightvnc

http://www.tightvnc.com/faq.php