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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

<u>http://www.tightvnc.com/download.php</u> 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!)

闄 TightVNC Setup	
Custom Setup Select the way you want features to be installed.	
Click the icons in the tree below to change the wa	ay features will be installed.
TightVNC	TightVNC includes two components, Server and Viewer. Both are installed by default.
	This feature requires 28KB on your hard drive. It has 1 of 2 subfeatures selected. The subfeatures require 1161KB on your hard drive.
Location: C:\Program Files\TightVNC\	Browse
Reset Disk Usage	Back Next Cancel







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

Connection Remote Host: Enter a name o	192.168.3.29:5901	Connect for Su	[·] your Pi and ma re the default po 5901 is used!
append it after	two colons (for example, mypc::5902).	Options	
Reverse Connec	tions allows people to attach your viewer to	····	
their desktops.	Viewer will wait for incoming connections.	Listening mode	
tight VNC	TightVNC is cross-platform remote control Its source code is available to everyone, e (GNU GPL license) or commercially (with no Version info	oftware. ther freely GPL restrictions). Configure	
is shows the	the Java client connection. A	similar screen is display	ed for the
ndows clien	t.		







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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:







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[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



