



Home • My Setup • Resources • News • Projects/Code • FAQs • Contact

[Raspberry Pi Projects](#) > [FAQs and HowTos](#) > Setting up Tight VNC Server

## Setting up Tight VNC Server

Sets up Tight VNC so that you can run an VNC connection and access the RPi as a remote graphical device.



**Note:** This is a minimal configuration setup. It will run as root, not as the pi or other user. There are more complex setup instructions that can set this up so that you are using the non-root user.

**Warning: This version of VNC is not secure. Using it over the Internet in this manner may compromise your system**

### Install App

```
$ sudo apt-get update
$ sudo apt-get install tightvncserver
```

this will output something like:

```
Reading package lists... Done
Building dependency tree
Reading state information... Done
Suggested packages:
  tightvnc-java
The following NEW packages will be installed:
  tightvncserver
0 upgraded, 1 newly installed, 0 to remove and 0 not upgraded.
Need to get 0 B/786 kB of archives.
After this operation, 1,509 kB of additional disk space will be used.
Selecting previously unselected package tightvncserver.
(Reading database ... 60797 files and directories currently installed.)
Unpacking tightvncserver (from ../tightvncserver_1.3.9-6.4_armhf.deb) ...
Processing triggers for man-db ...
Setting up tightvncserver (1.3.9-6.4) ...
update-alternatives: using /usr/bin/tightvncserver to provide /usr/bin/vncserver (vncserver)
in auto mode
update-alternatives: using /usr/bin/Xtightvnc to provide /usr/bin/Xvnc (Xvnc) in auto mode
update-alternatives: using /usr/bin/tightvncpasswd to provide /usr/bin/vncpasswd (vncpasswd)
in auto mode
```

### Run

```
$ sudo vncserver :1 -geometry 1280x800 -depth 24
You will require a password to access your desktops.

Password:
Verify:
```

```
Would you like to enter a view-only password (y/n)? n
xauth: file /root/.Xauthority does not exist
```

```
New 'X' desktop is rasp02:1
```

```
Creating default startup script /root/.vnc/xstartup
Starting applications specified in /root/.vnc/xstartup
Log file is /root/.vnc/raspi02:1.log
```

## Create Startup Script

### `/etc/init.d/tightvnc`

```
#!/bin/sh
### BEGIN INIT INFO
# Provides: tightvncserver
# Required-Start:
# Required-Stop:
# Default-Start: 2 3 4 5
# Default-Stop: 0 1 6
# Short-Description: start vnc server
# Description:
### END INIT INFO

. /lib/lsb/init-functions

# Carry out specific functions when asked to by the system
case "$1" in
  start)
    su root -c 'vncserver :1 -geometry 1280x800 -depth 24'
    echo "Starting VNC server "
    ;;
  stop)
    pkill Xtightvnc
    echo "VNC Server has been stopped (didn't double check though)"
    ;;
  *)
    echo "Usage: /etc/init.d/tightvnc {start|stop}"
    exit 1
    ;;
esac
```

## Activate

```
$ sudo chmod 0755 /etc/init.d/tightvnc
$ sudo update-rc.d tightvnc defaults
```

## Access

You can now access the VNC server using the IP of your device and using **port 5900**. Some VPN clients may need you to add the port to the ip like: **xxx.xxx.xxx.xxx:5900**

You can (**not advised**) also setup your router to port forward to your Raspberry Pi from the Internet for access to your RPi from the Internet. This version of VNC is not secure however. You would be best to either tunnel to it via SSH or use VPN.

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