

# VNC

## Installation

1. Install [TightVNC](#):

```
sudo apt install tightvncserver
```

2. Open the ports in your [UFW Firewall](#):

```
sudo ufw allow VNC
sudo ufw allow 5902/tcp
```

3. Establish a port forward for port 5902 for your client's SSH connection, and open an SSH connection to the server
4. Check connections to the VNC server with a [VNC Viewer for Windows](#), or on a mobile client [VNC Viewer for Android](#). Connect to localhost:5902.
5. Note that port 5902 will open a connection to (local) display :2. It's safer to use display :2 than :1, as :1 sometimes is used by a SSH connection.

## Setup as service

1. Next, we'll set up the VNC server as a systemd service so we can start, stop, and restart it as needed, like any other service. This will also ensure that VNC starts up when your server reboots.
2. First, create a new unit file called `/etc/systemd/system/vncserver@.service` using your favorite text editor:

```
sudo vim /etc/systemd/system/vncserver@.service
```

3. The @ symbol at the end of the name will let us pass in an argument we can use in the service configuration. We'll use this to specify the VNC display port we want to use when we manage the service:

```
[Unit]
Description=Start TightVNC server at startup
After=syslog.target network.target

[Service]
Type=forking
User=<user>
Group=<user>
WorkingDirectory=/home/<user>

PIDFile=/home/<user>/.vnc/%H:%i.pid
ExecStartPre=-/usr/bin/vncserver -kill :%i > /dev/null 2>&1
ExecStart=/usr/bin/vncserver -depth 24 -geometry 1280x800 -dpi 96 :%i
ExecStop=/usr/bin/vncserver -kill :%i
```

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

The ExecStartPre command stops VNC if it's already running, make sure the command is preceded by a "-". The ExecStart command starts VNC and sets the color depth to 24-bit color with a resolution of 1920×1080 and dpi to 96 which ensures the fonts are large enough.

4. Make the system aware of the new unit file

```
sudo systemctl daemon-reload
```

5. Enable the unit file:

```
sudo systemctl enable vncserver@2.service
```

The 2 following the @ sign signifies which display number the service should appear over, in this case the default :2.

6. Stop the current instance of the VNC server if it's still running:

```
vncserver -kill :2
```

7. Check that the following files do not exist. If they do, delete them:

```
/tmp/.X2-lock
/tmp/.X11-unix/X2
```

8. Then start it as you would start any other systemd service:

```
sudo systemctl start vncserver@2
```

9. Check the service is active with one of the following commands:

```
sudo systemctl is-active vncserver@2
sudo systemctl status vncserver@2
```

- Your VNC server will now be available when you reboot the machine.

## Delay starting the service

## Links

- [How to Install and Configure VNC on Debian 9](#)
- [How to Install and Configure VNC on Debian 10](#)
- [How to Install and Configure VNC on Debian 11](#)
- [GUI snaps can't connect to display in VNC](#)
- [Linux xhost command](#)
- [Understanding Systemd Units and Unit Files](#)

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