# Secure Shell Virtual Network Computing By John Lewis oflameo@yandex.com 2017-05-02

# Minimal Requirements

- IPv4 Networking
- SSH-2 Client
- VNC Client
- 2 PCs

### Recommended Requirements

- IPv4 Networking
- OpenSSH 6.7p1 or later or PuTTY 0.69 or later
- Remmina 1.1.0 or newer or 1.2.1.2 or newer
- Laptop Running
  - Debian 8 or newer or Ubuntu 16.04 or newer
  - Windows 7 or newer
- Raspberry Pi B series
  - Class provided image on SD Card

#### Get Software

- Windows
  - http://www.uvnc.com/downloads.html
  - http://www.chiark.greenend.org.uk/~sgtatham/putty/lates t.html
- Debian & Ubuntu
  - `sudo aptitude update`
  - `sudo aptitude install ssh remmina`

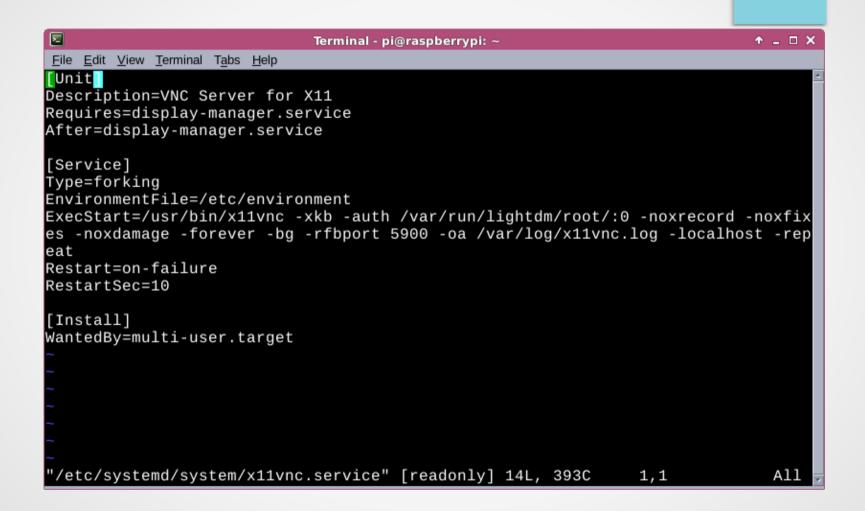
#### Move the Unit file to the Pi

cd sshvnc\_ws/src/ansible/template/ scp x11vnc.service pi@\$PINAME:

#### Connect to Pi

ssh -t -L 5901:localhost:5900 pi@\$PINAME

#### vim x11vnc.service



# Get Systemd to load file

sudo mv x11vnc.service /etc/systemd/system sudo systemctl daemon-reload systemctl enable x11vnc systemctl start x11vnc systemctl status x11vnc

# Status should show running

```
Terminal - pi@raspberrypi: ~
                                                                              ↑ _ □ X
File Edit View Terminal Tabs Help

    x11vnc.service - VNC Server for X11

  Loaded: loaded (/etc/systemd/system/x11vnc.service; enabled)
   Active: active (running) since Wed 2017-05-03 13:05:00 UTC; 58min ago
 Main PID: 1147 (x11vnc)
   CGroup: /system.slice/x11vnc.service
           __1147 /usr/bin/x11vnc -xkb -auth /var/run/lightdm/root/:0 -noxrec...
May 03 13:05:00 raspberrypi x11vnc[987]: PORT=5900
May 03 13:05:00 raspberrypi systemd[1]: Started VNC Server for X11.
pi@raspberrypi:~ $
```

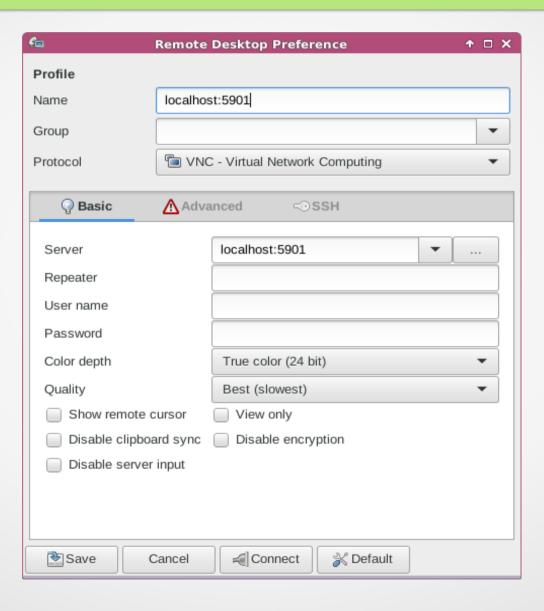
#### Disconnect from Pi

# exit

## Connect to Pi Again



# Configure new VNC connection



#### Connect to VNC

