

Xp-embedded Thin Clients managed by server with OS Ubuntu 14.04

Getting Started

1. Install and connect computer, router and XP-embedded thin clients
2. Install Ubuntu 14.04 (clean install) on the computer that will function as server.
3. Create users and grant root privileges. Start by opening terminal (ctrl+alt+t) and use following commands in terminal:

```
sudo su  
Adduser User1
```

Add user

4. User will be created. You will have the option of creating a password and adding personal information to the user account:

```
Creating home directory `/home/user1' ...  
Copying files from `/etc/skel' ...  
Enter new UNIX password:  
Retype new UNIX password:  
passwd: password updated successfully  
Changing the user information for user1  
Enter the new value, or press ENTER for the default  
Full Name []: User  
Room Number []:  
Work Phone []:  
Home Phone []:  
Other []:
```

If desired, add password, phone nr, etc.

5. Grant root privileges by typing following commands in the terminal:

“Sudo nano /etc/sudoers” and create the following entry :

```
User1 ALL=(ALL:ALL) ALL
```

Grant root privileges

Installing Remote Desktop

1. The next step is to install the remote desktop, XFCE4 and the XFCE4 Terminal. This can be done via the terminal as follows:

```
sudo apt-get update
sudo apt-get install xrdp
install XRDP
```

```
sudo apt-get install xfce4
Install XFCE4
```

```
sudo apt-get install xfce4-terminal
install XFCE terminal and 2 icons sets
```

```
echo xfce4/session > ~/.xsession
create or edit .xsession file in home directory
```

```
Sudo nano
/etc/xrdp/startwm.sh
edit startup file for xrdp, so it will start xfce4
```

```
#!/bin/sh

if [ -r /etc/default/locale ]; then
  . /etc/default/locale
  export LANG LANGUAGE
fi

startxfce4

content should look like this, edit if not the same
```

```
sudo service xrdp restart
restart xrdp to make changes effective
```

2. After the installation of Remote Desktop and XFCE4 is done, you'll be able to log in to the remote desktop from the attached thin client. You can log in using the username and password you created.

Getting Sound to Work

1. Return to terminal and install Pulse Audio by entering the following commands:

1

```
cd
git clone https://github.com/scarygliders/x11rdp-o-matic.git
cd x11rdp-o-matic
sudo ./x11rdp-o-matic.sh --justdoit --withsound --withjpeg --branch devel
```

2

```
sudo apt-get install dpkg-dev
```

3

```
Cd /tmp
apt-get source pulseaudio
```

4

```
sudo apt-get build-dep pulseaudio
```

5

```
cd pulseaudio-4.0
dpkg-buildpackage -rfakeroot -uc -b
```

6

```
cd~/x11rdp-o-
matic/work/xrdp/sesman/chansrv/pulse
```

7

```
diff --git a/sesman/chansrv/pulse/makefile b/sesman/chansrv/pulse/makefile
index dala894..59809f9
100644
--- a/sesman/chansrv/pulse/makefile
+++ b/sesman/chansrv/pulse/makefile
@@ -2,7 +2,7 @@
 # build xrdp pulseaudio modules
#

-pulse_dir = /home/lk/pulseaudio-1.1
+pulse_dir = /tmp/pulseaudio-4.0
cflags = -wall -O2 -i$(pulse_dir) -i$(pulse_dir)/src -dhave_config_h -fpic

all: module-xrdp-sink.so module-xrdp-source.so
```

8

```
make
```

9

```
sudo cp module-xrdp-sink.so module-xrdp-source.sp /usr/lib/pulse-4.0/modules/
```

10

```
sudo service xrdp start
```

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Handtekening:


