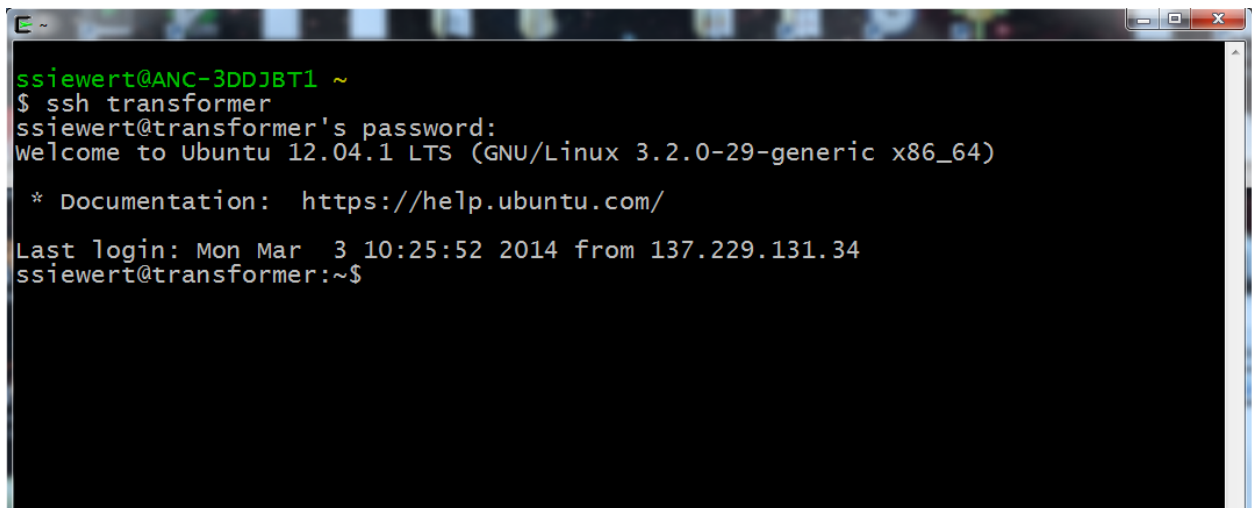# Linux Remote Access

Ubuntu 12.04 LTS on transformer.uaa.alaska.edu

You can simply **ssh**, **sftp**, or **scp** to transformer.uaa.alaska.edu. If you use Windows, one of the best tools to use for this is Cygwin - http://cygwin.com/install.html (make sure you select SSH or OpenSSH for installation when you configure the download), but easier than this if you just want a simple terminal is to use Putty for windows - http://www.putty.org/

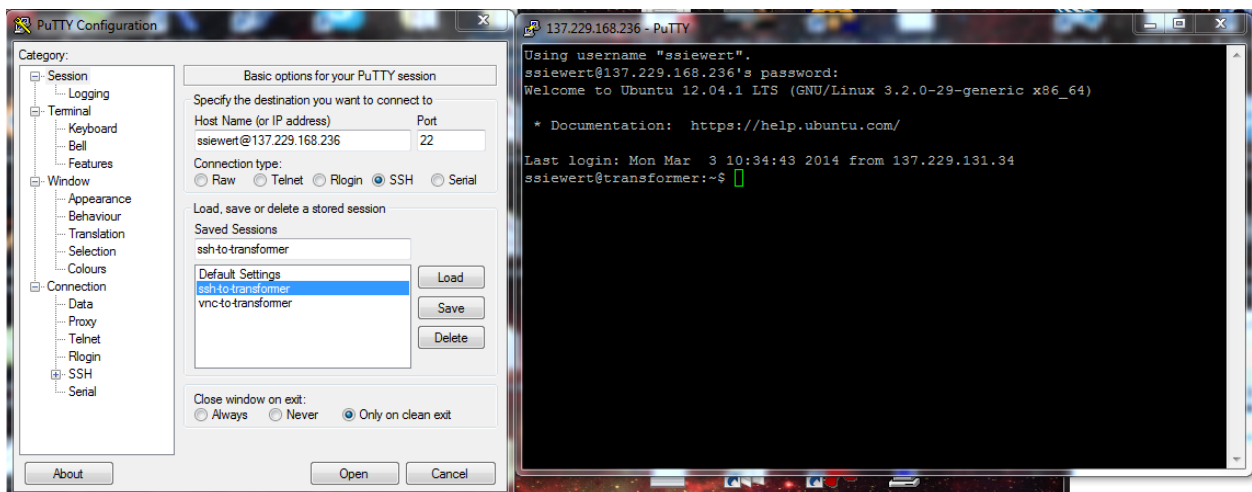Assuming you use Cygwin, a simple SSH login will look like this:
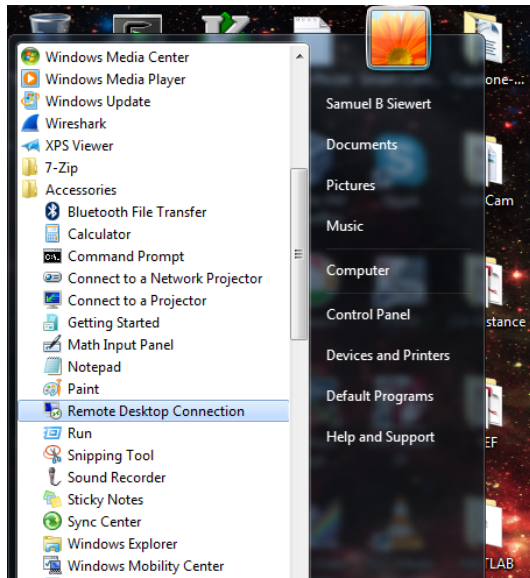

Assuming you use Putty, a simple SSH login will look like this:

For a Remote Desktop on Windows

There are two options: 1) Windows Remote Desktop to XRDP (running on transformer) or 2) TightVNC client connection over and SSH tunnel to VNC server running on transformer.
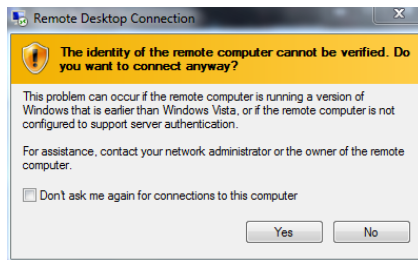
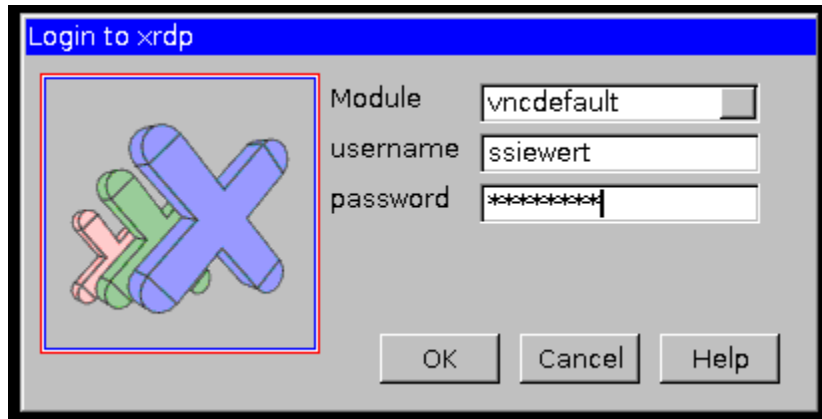## The simplest option is to use Windows Remote Desktop

You should be prompted for the remote connection, so enter transformer:
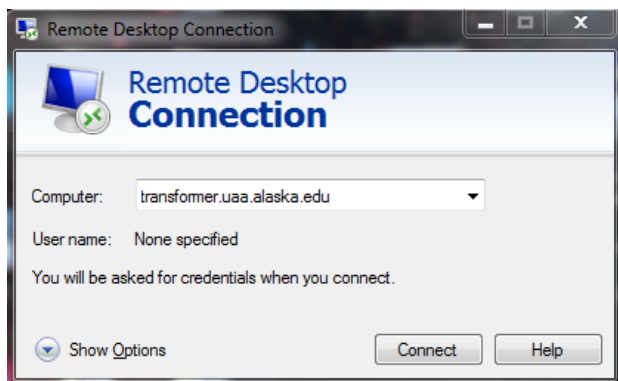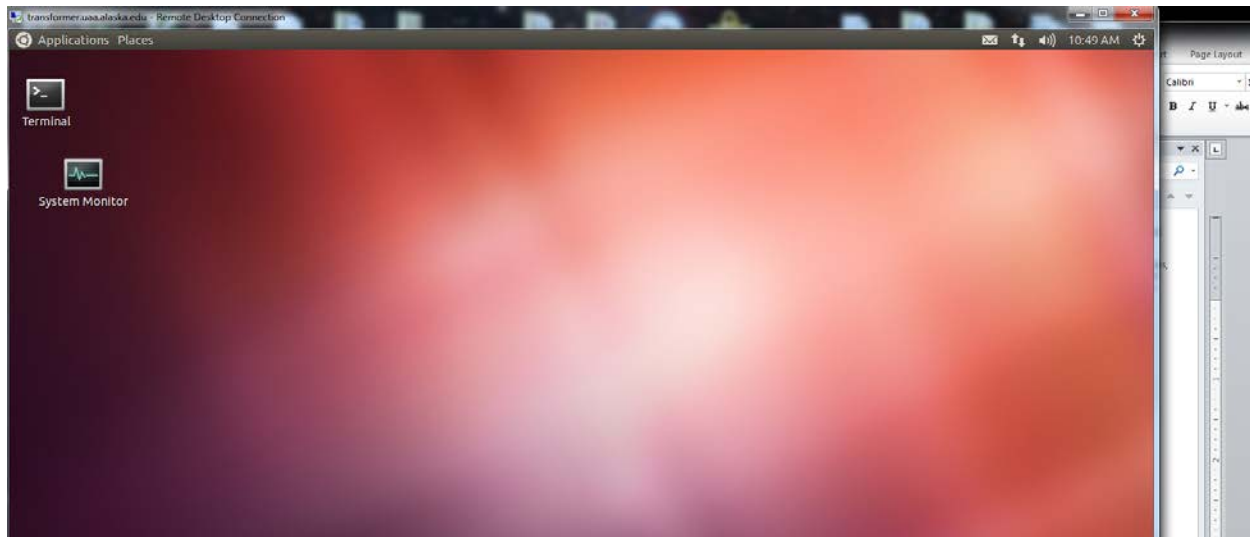

You may be prompted to ok lack of server authentication (just say OK):

Next, you'll be asked to enter login credentials:

After this, you should see a desktop (make sure you have a good configuration in your .vnc directory):

Copy over ~ssiewert/.vnc

```
Edit xstartup:

#!/bin/sh

# Uncomment the following two lines for normal desktop:
unset SESSION_MANAGER
#exec /etc/X11/xinit/xinitrc
gnome-session --session=gnome-classic &

[ -x /etc/vnc/xstartup ] && exec /etc/vnc/xstartup
[ -r $HOME/.Xresources ] && xrdb $HOME/.Xresources
xsetroot -solid grey
vncconfig -iconic &
#x-terminal-emulator -geometry 1280x1024+10+10 -ls -title "$VNCDESKTOP
Desktop" &
#x-window-manager &
```

On a Windows machine use SSH to setup a tunnel (get help to start tunnel server)

`ssh -L 5907:localhost:5907 ssiewert@transformer.uaa.alaska.edu`

Copy over ~ssiewert/.vnc

```
Edit xstartup:

#!/bin/sh

# Uncomment the following two lines for normal desktop:
unset SESSION_MANAGER
#exec /etc/X11/xinit/xinitrc
gnome-session --session=gnome-classic &

[ -x /etc/vnc/xstartup ] && exec /etc/vnc/xstartup
[ -r $HOME/.Xresources ] && xrdb $HOME/.Xresources
xsetroot -solid grey
vncconfig -iconic &
#x-terminal-emulator -geometry 1280x1024+10+10 -ls -title "$VNCDESKTOP
Desktop" &
#x-window-manager &
```
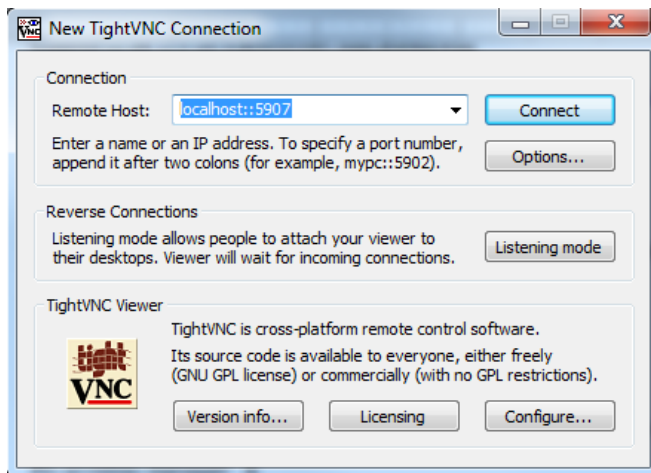
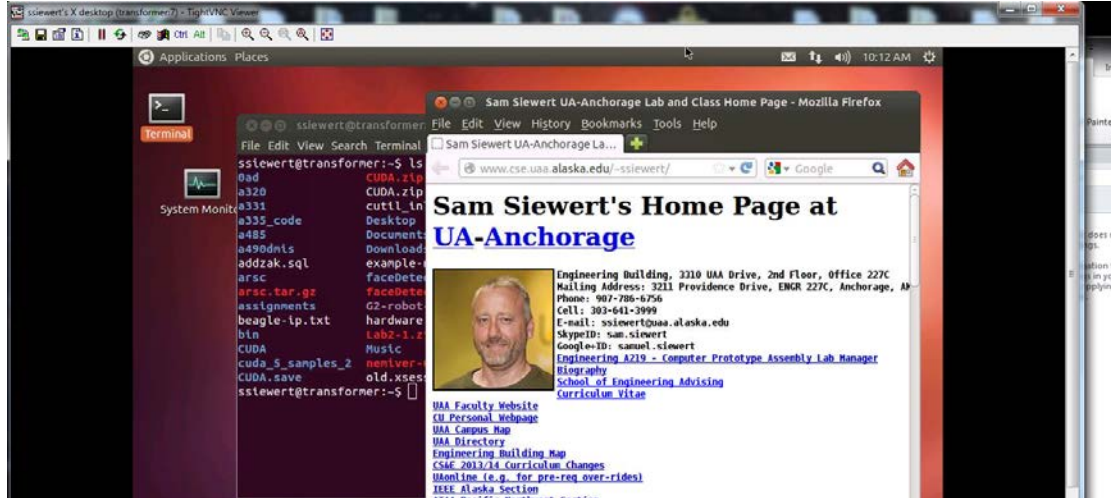**Install tightVNC on your Windows machine**: http://www.tightvnc.com/download.php

While you are SSH'd into transformer, run VNC client to localhost::5907 to connect to your desktop.

You should then be prompted for your password for the SSH tunnel (enter normal password):
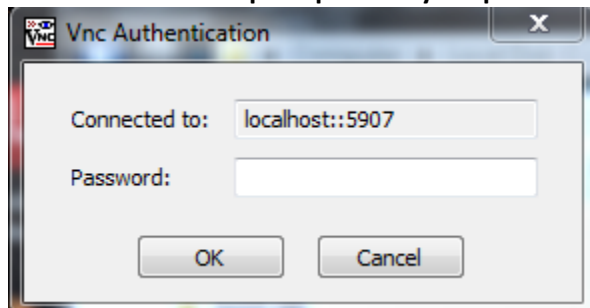
If all goes well, you should get a remote desktop like this:

Setting up server to start automatically (/etc/init.d/vncserver)

After adding a new user to /etc/init.d/vncserver and assigning a DISPLAY, do:

sudo /etc/init.d/vncserver restart

```
#!/bin/bash
PATH="$PATH:/usr/bin/"
export USER="ssiewert"
DISPLAY="7"
DEPTH="16"
GEOMETRY="1024x768"
OPTIONS="-depth ${DEPTH} -geometry ${GEOMETRY} :${DISPLAY} -localhost"
. /lib/lsb/init-functions

case "$1" in
start)
log_action_begin_msg "Starting vncserver for user '${USER}' on
localhost:${DISPLAY}"
su ${USER} -c "/usr/bin/vncserver ${OPTIONS}"
;;

stop)
log_action_begin_msg "Stoping vncserver for user '${USER}' on
localhost:${DISPLAY}"
su ${USER} -c "/usr/bin/vncserver -kill :${DISPLAY}"
;;

restart)
$0 stop
$0 start
;;
esac
exit 0
```

References:

1. http://www.hiddentao.com/archives/2013/09/17/setting-up-tightvnc-on-ubuntu-12-04/

2. http://askubuntu.com/questions/130110/tightvncserver-on-ubuntu-12-04-server-with-ubuntu-desktop-installed-no-unity

3. http://www.havetheknowhow.com/Configure-the-server/Install-VNC.html

4. http://www.liberiangeek.net/2012/05/connect-to-ubuntu-12-04-precise-pangolin-via-windows-remote-desktop/