

PuTTY and Xming on Windows

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Abstract

Using PuTTY and Xming on WinXX machines for use with IRAF/PyRAF.

1 PuTTY and Xming on Windows

The PuTTY program provides a X11/ssh connection to remote machines. Here the machine's hostname is **pier15.local**, the port is 22.

Xming is a X11 “server” (meaning is backwards from data client/server sense) that “serves” the graphics from a remote programming doing all the heavy computing.

Grab Xming and install on a Win machine.

First some X11 magic:

```
the files /etc/X11
/etc/X11/xinit/xserverrc
~/.xinitrc
~/.xsession -- start programs when the login is complete
~/.profile
```

```
ssh-keygen -t ed25519 -C "your_email@example.com"
```

```
xmodmap -pke > ~/.Xmodmap # make a .Xmodmap to hack upon
```

This varies with new modern keyboards, there is massive confusion over what a key is called.

xev program will show keycodes when a key changes state, like shift down, then shift up etc... When using the “caps” key:

```
keycode 37 = Control_L NoSymbol Control_L
```

Run XLaunch verify settings:

1. multiple windows
2. start no client
3. clipboard checked
4. save configuration

Configure PuTTY:

1. Session:
 - (a) hostname: pier15.local port 22
 - (b) CTM_X
 - (c) check Only on clean exit
2. Window
 - (a) 120 50
 - (b) scrollbar 200
 - (c) display scrollbar
 - (d) Reset scrollbar on display activity
 - (e) push erased text into scrollbar
3. Connection -> Data
 - (a) login name
 - (b) Terminal-type string xterm

(c) Terminal Speed 38400, 38400

4. SSH->X11

(a) Enable X11 forwarding

(b) localhost:0.0

(c) MIT-Magic-Cookie-1

On the Windows pane, enter a new configuration for this machine.

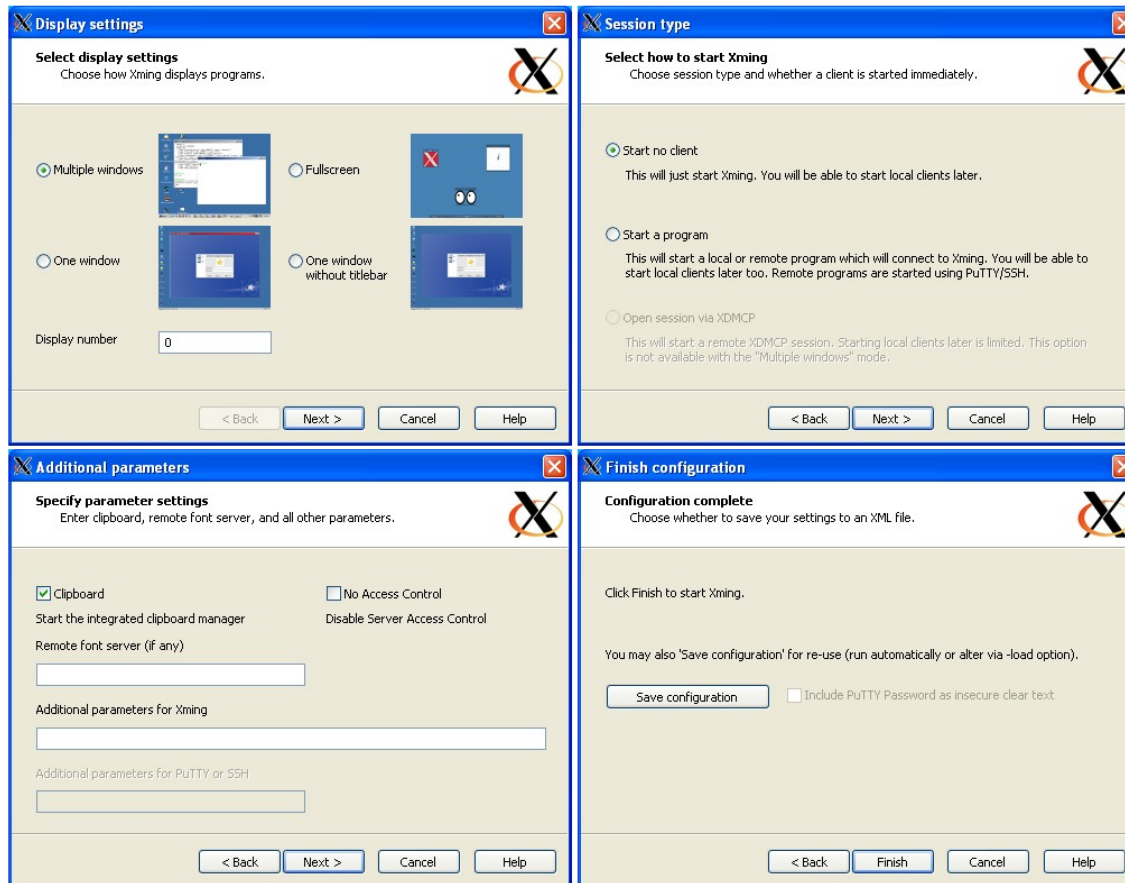


Figure 1-1: Xming screen snaps of the 4 configuration menu panels.

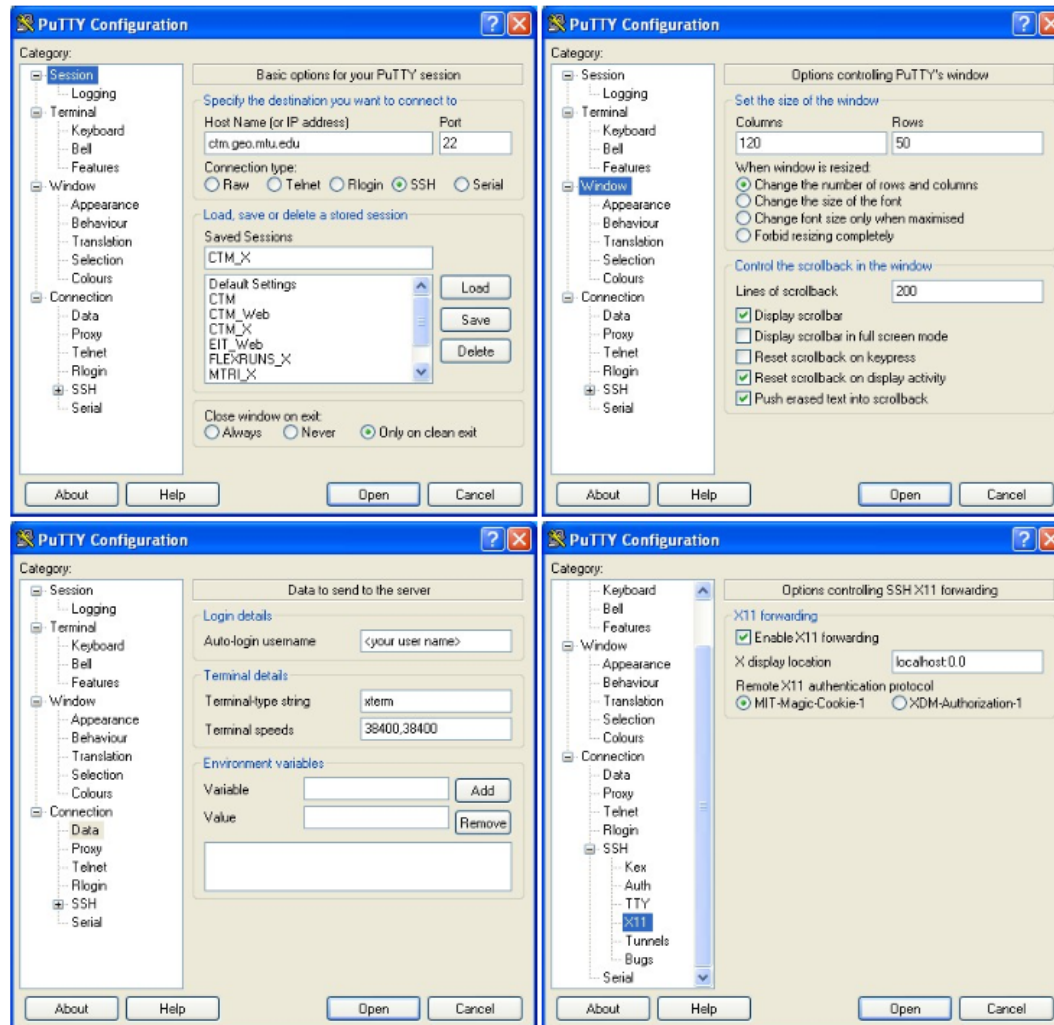


Figure 1-2: PuTTY screen snaps of the 4 configuration menu panels.