

X Server

Accessing your remote machine with an X Server on your Windows machine might be some challenge. Here is the sequence you should check in order to get this running.

Configure sshd

```
# vim /etc/ssh/sshd_config
X11Forwarding yes
X11DisplayOffset 10
X11UseLocalhost yes
```

see <http://www.straightrunning.com/XmingNotes/trouble.php>

Install and configure Xming

1. Install Xming and fonts <http://www.astro.yale.edu/astr255/xming-install/xming-install.html>
2. Instructions for portable install <http://www.portablefreeware.com/index.php?id=419>

Install and configure PuTTY

see <https://wiki.utdallas.edu/wiki/display/FAQ/X11+Forwarding+using+Xming+and+PuTTY>

Check whether you get a X display

```
$ echo $DISPLAY
```

This should return

```
$ localhost:10.0
```

If you don't get the correct display, restart sshd like so:

```
# /etc/init.d/ssh restart -d
```

Leave the terminal window open to check the debug messages. Connect with another terminal window over SSH and watch for the following error message: **Failed to allocate internet-domain X11 display socket error**

Apparently this is a bug in sshd:

```
Looks like the fix for CR 6684003 breaks sshd's ability to bind to a local
```

```
socket for X forwarding. bind() returns EADDRNOTAVAIL for every bind call to
::1
for ports 6010->6999, but never tries IPv4 localhost addresses.
```

So apparently if you don't have an IPv6 interface, you get this error. There are two solutions:

1. add "AddressFamily inet" to the sshd_conf and restart sshd
2. or enable IPv6 on lo0

Reconfigure who can start an X server:

```
# dpkg-reconfigure x11-common
```

This modifies /etc/X11/Xwrapper.config - This file has a setting called "allowed_users". It can accept three values:

1. root
2. anybody
3. console

X11 Forwarding: <http://aruljohn.com/info/x11forwarding/>

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<https://wiki.condrau.com/> - **Bernard's Wiki**

Permanent link:
<https://wiki.condrau.com/deb720:x11>

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