

# SSH X11 Forwarding - Running GUI Applications remotely

## For Linux users:

Open Terminal.

Type:

```
ssh -Y YOUR_USERNAME@cseX11.cse.csusb.edu
```

- For CSE 201/202 students, make sure you have the following packages installed:
  - xfonts-75dpi (Ubuntu/mint/Debian Based Linux);
  - xorg-x11-fonts (Fedora/Scientific Linux/Red Hat Based Linux)
  - xorg-fonts-75dpi (Arch Linux)

## For Mac Users:

Run “Applications > Utility > Xterm”

Type:

```
ssh -Y YOUR_USERNAME@cseX11.cse.csusb.edu
```

## For Windows Users:

Windows users need to install [Xming](#), an X server to handle local display, and an secure shell program. For CSE201/202, you also need to install Xming-font.

Xming can be downloaded from <http://sourceforge.net/projects/xming/files/latest/download>.

Putty can be downloaded from <http://www.chiark.greenend.org.uk/~sgtatham/putty/download.html>.

Xming-font can be downloaded from <http://sourceforge.net/projects/xming/files/Xming-fonts/>.

### *Configure Putty*

1. Add Hostname: cseX11.cse.csusb.edu
2. Switch Protocol to SSH
3. Type name of session in saved sessions
4. Click ‘Save’
5. Expand the ‘SSH’ tab from the ‘Category’ list
6. Choose ‘X11’ from ‘SSH’ list
7. Check ‘Enable X11 Forwarding’
8. Choose ‘Session’ From ‘Category’ list
9. Click ‘Save’

### *Starting the X Server on Windows*

#### Connecting

1. Start Xming
2. Start Putty
3. Double click on the saved session you want.
4. Enter username and password.
5. You should be able to run X applications from the host on your desktop.