## Using Xming for X Windows Emulation on Lyle Unix Accounts

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## **Overview and Setup**

This document assumes that you have an SMU Lyle Unix account, and want to have X-Windows emulation on a Windows computer. X-Windows emulation is **required** to run most of the CAD tools (such as Synopsys and Cadence tools) on your Unix account. **Xming** is an X-Windows emulator that runs on Windows machines.

You will need to install two programs on your computer: Putty and Xming

- 1. Putty download from <a href="http://www.putty.org/">http://www.putty.org/</a>
  - a. Install on your computer using the default settings
  - b. The icon for putty on your desktop will be the following:



- 2. Xming download from <a href="http://sourceforge.net/projects/xming/files/">http://sourceforge.net/projects/xming/files/</a>
  - a. Install on your computer using the default settings
  - b. The icon for Xming on your desktop will be the following:



## **Running Xming**

After you have installed both Putty and Xming, you are ready to use your Lyle Unix account in X-windows. Do the following:

- 1. First, start Xming double-click on the Xming icon on your computer desktop
- 2. Next, start Putty double-click on the putty icon on your computer desktop
  - a. Go to the X11 screen (Connection, SSH, X11), and enable X11 forwarding by checking the box:

<b>4</b> 2		
🕵 PuTTY Configurati	on	×
Category:		
<u> </u>	^	Options controlling SSH X11 forwarding
<ul> <li>Keyboard</li> <li>Bell</li> <li>Features</li> <li>Window</li> <li>Appearance</li> <li>Behaviour</li> <li>Translation</li> <li>Selection</li> <li>Colours</li> <li>Connection</li> <li>Data</li> <li>Proxy</li> <li>Telnet</li> <li>Rlogin</li> <li>SSH</li> <li>Kex</li> </ul>		X11 forwarding ☑ Enable X11 forwarding X display location Remote X11 authentication protocol ④ MIT-Magic-Cookie-1 ○ XDM-Authorization-1 X authority file for local display Browse
terret Auth TTY X11 Tunnels		
About	*	Open Cancel

- b. Now go to the Session screen and enter a host name for the Lyle Unix server
  - i. List of Lyle Unix servers (General Use Linux Machines) can be found at <a href="https://www.smu.edu/OIT/Services/genuse">https://www.smu.edu/OIT/Services/genuse</a>
  - ii. I will use genuse40.lyle.smu.edu as an example (below)
- c. Click on **Open** to launch the Putty window.
  - i. NOTE: If this is the first time your computer has accessed the selected Lyle Unix server, you may get a "Putty Security Alert". If so, click Yes to continue.

😵 PuTTY Configuration X				
Category:				
E Session	^	Basic options for your PuTTY session		
Logging		Specify the destination you want to connect to		
i ⊡ ·· Terminal I ··· Keyboard		Host Name (or IP address) Port		
Bell		genuse40.lyle.smu.edu 22		
Features		Connection type: Raw Telnet Rlogin SSH Serial		
Appearance     Behaviour     Translation     Selection     Colours     Connection     Proxy     Telnet     Rlogin     SSH     Kex     Auth     TTY     X11 ✓		Load, save or delete a stored session Saved Sessions		
		Default Settings Load Save Delete		
	•	Close window on exit: Always Never Only on clean exit		
About		Open Cancel		

d. The Putty window will open – login using your Lyle Unix account username and password



e. In the Putty window, type **xterm &** to launch an Xming X window (xterm). NOTE: You have to click on the Xming icon on the bottom tool bar of your screen to show the X window.



Note: All CAD tools should be run from the xterm window.