

# x2go Installation and Configuration at Home Computer

If you want to run an application, such as Eclipse, ARM DS etc., with **Graphical User Interface** on a **Lab Machine** from your **Home Computer**, you will need to remote login into the lab machine using **x2go**. x2go is **free** to download and available for both **Windows** and **Mac** machines. x2go uses **VcXsrv** on **Windows** machines and it will be automatically installed when you install x2go. x2go uses **XQuartz** on **Mac** machines and you will need to install **XQuartz** separately. Both **VcXsrv** and **XQuartz** are required to get X based application displays from the remote linux/unix machines. X2go remote login establishes an **ssh** session with **X forwarding** with the remote machine.

This document has information on how to **download, install, run, and configure** x2go on both Windows and Mac machines. It also tells how to download, install, and test **XQuartz** on Mac machines.

## Download and Install

### Windows Users

Download and Install x2go and VcXsrv

- Download **Windows version of x2go setup software** from **x2go** download page (<https://wiki.x2go.org/doku.php/download:start>)
- Double click on the setup exe to start the installation.
- Follow the prompt and finish the installation.

### Mac Users

Download and Install XQuartz

- Browse to **<https://www.xquartz.org/>** and download the version 2.7.11 dmg file.
- In Finder, double-click on the downloaded dmg file.
- In the XQuartz window double-click on the XQuartz.pkg package to launch the installer
- In the "Install XQuartz" window
- Click "Continue"
- Read the Important Information, click "Continue"
- Click Agree to agree to the software license agreement
- Click "Install"
- If required, enter credentials to allow the install to proceed and click "Install Software"
- [Software will install]
- A permissions window may prompt to allow the installer to access the System Events. Click "OK"
- Click "OK" for the message "You will need to log out and log back in..."
- Click "Close" when the installation completes

- If prompted about moving the installer to Trash, click "Move to Trash"
- Log out and log back in so that XQuartz will be picked up as the default X server and so the shell display variable will be set correctly.

#### Test XQuartz

- Launch the Terminal application
- Use Spotlight Search to locate "terminal" app and launch it
- Connect to csci.viu.ca using X forwarding and ssh
- **\$ ssh -X user@csci.viu.ca**
- Using the -X (X forwarding) switch will cause the XQuartz app to launch on the local Mac upon successful login
- Accept the server's host key by type "y"
- Enter a valid CSCI password to login
- Once logged into otter test the ability to launch graphical applications on otter and display on the local computer
- At the shell prompt type "xeyes" and hit enter
- The xeyes application will open on the local Mac. This application displays a set of eyes that appear to follow the mouse movements.
- Click on the red circle in the top left corner to shutdown xeyes and return to the shell prompt

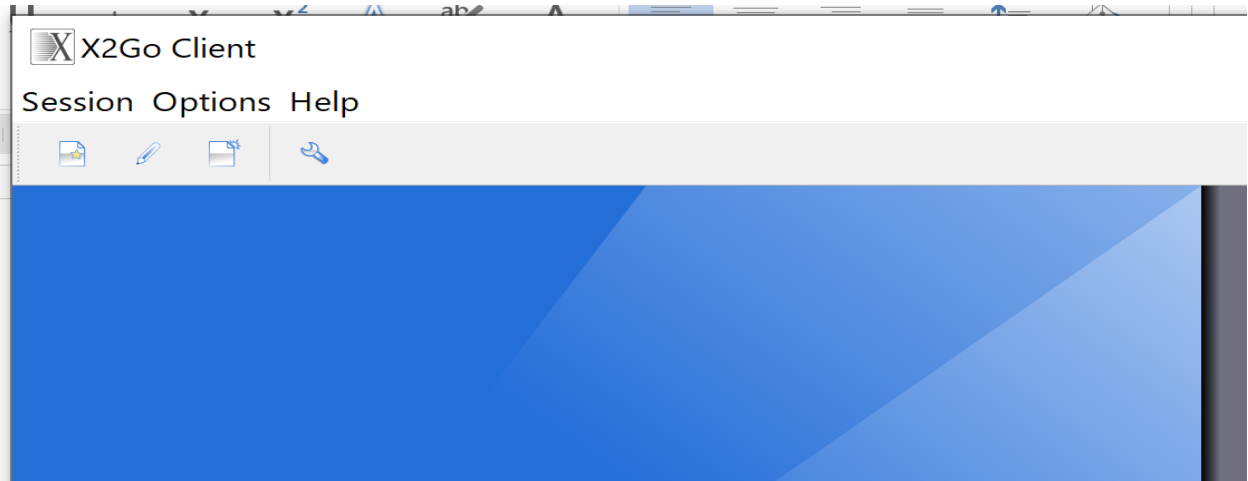
#### Download and Install x2go

- Download the latest release from [X2Go releases](<https://code.x2go.org/releases/binary-macosx/x2goclient/releases/>)
- Open the x2goclient-\* dmg file
- Drag X2Go Client to the Applications folder
- Close the window
- Launch the X2Go Client from the applications folder
- If OS X refuses to launch the application due to not being able to verify it, manually adjust the security settings
- Open the System Preferences
- Select Security & Privacy
- Click on the General tab
- Beside the "'x2goclient" was blocked...' message, click Open Anyway.
- Click Open on the dialogue window
- If prompted to allow/deny "pulseaudio" to accept incoming network connections, click Allow

## Both Windows and Mac Users

### Configuring a X2go Remote Session


- Once installed, run the x2go.



- Click on **Session** and **New Session**.
- Type a **session name**, for example, *cub13* to have a session with cub13.csci.viu.ca machine in the lab.
- Type **host name** in **Host** box, for example *cub13.csci.viu.ca* for cub13. Hosts available for you (second year and up) in CSCI Labs are **cub1 - cub17, kit1 - kit4**; hosts available for the first year students are **pup1-pup18**. For getting better performance from the lab machines it is advised that each student picks a different lab machine and sticks with that machine unless there is an issue.
- Type **your lab userid** in **Login** box.
- Leave SSH port 22
- **Check** on **Use Proxy server for SSH connection**.
- Leave Proxy server Type SSH.
- Check on **Same login as on X2GO Server**
- Check on **Same password as on X2GO Server**
- Type **Proxy Server Host** *csci.viu.ca*. Please, remember this Proxy Server Host is fixed for CSCI labs.
- Leave Proxy Server Port 22.
- Choose **Session type** *MATE* from the **drop down** but leave Run in X2GKDrive **unchecked**.
- In the **Connection** Tab, choose a lower quality such as "**4k-png**" for **Compression**
- Click OK to save the session configuration.

Session Connection Input/Output Media Shared folders

Session name: cub13

 << change icon

Path: / 

Server

Host: cub13.csci.viu.ca

Login: userid

SSH port: 22

Use RSA/DSA key for ssh connection: 

Try auto login (via SSH Agent or default SSH key)

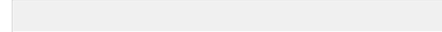
Kerberos 5 (GSSAPI) authentication

Delegation of GSSAPI credentials to the server


Use Proxy server for SSH connection

Proxy server

Type:  Same login as on X2Go Server

SSH Login: 

HTTP  Same password as on X2Go Server

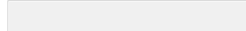
Host: csci.viu.ca RSA/DSA key: 

Port: 22  SSH Agent or default SSH key

Kerberos 5 (GSSAPI) authentication

Session type

Run in X2GoKDrive (experimental)

MATE Command: 

OK

Cancel

Defaults

Session Connection **Input/Output** Media Shared folders

Connection speed

MODEM ISDN **ADSL** WAN LAN

Compression

Method: 4k-png

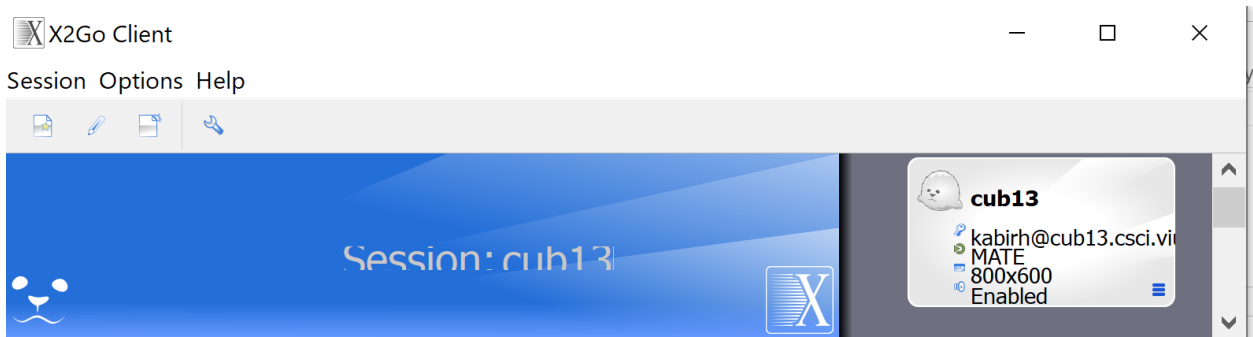
Image quality: 9

OK

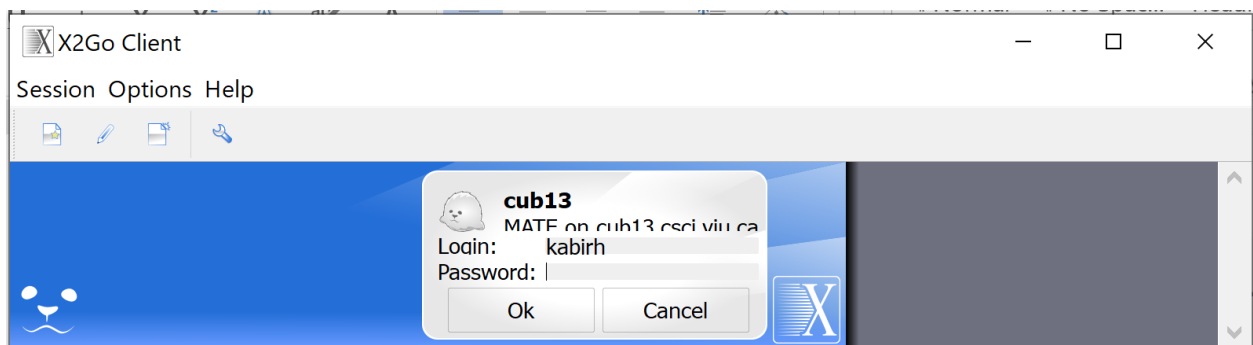
Cancel

Defaults

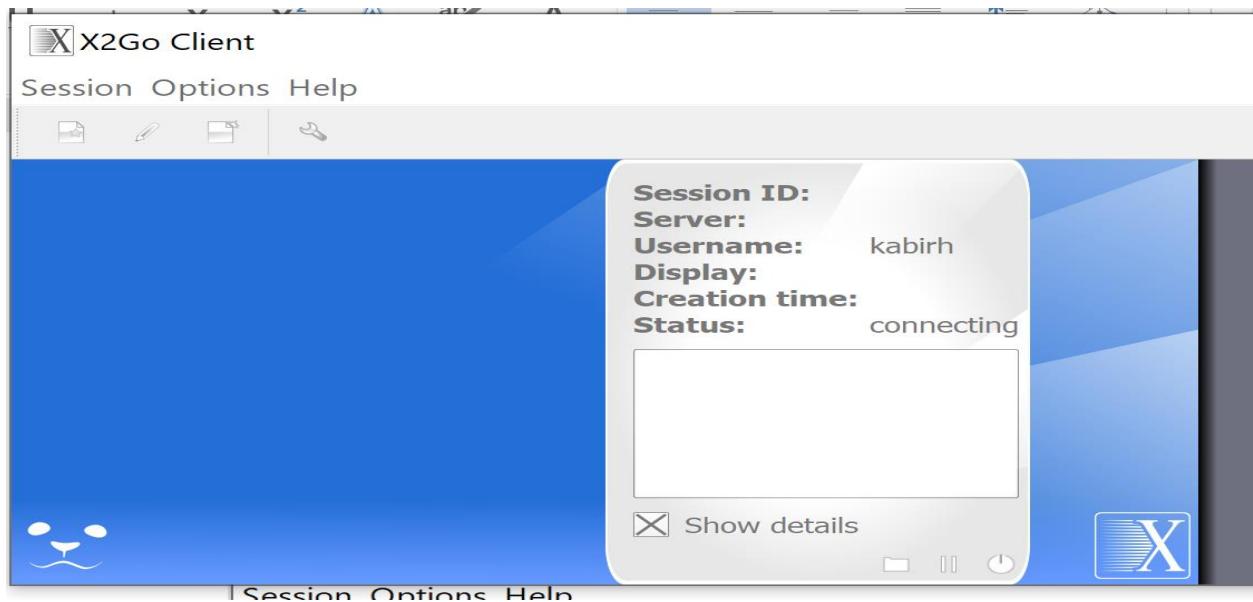
## Start a X2go Remote Session



- Click on the saved configuration to start a remote session with the remote host.



- Type your **password** and click **OK** to start.
- Launching may be slow. Please, wait until the session starts. **VcXrv** or **XQuarts** will **start automatically** with **x2go**.
- If prompted with "Host key verification failed" window asking "... Do you trust the host key? ...", click Yes



- You will see the remote desktop when the session starts.



- You are now ready to browse and run the installed applications in the lab machine through your remote desktop.

## Terminate a X2go Remote Session

To terminate a remote session

- Save work and exit any applications running within the session.
- Select "System" -> "Log out..." from the MATE menu within the session.

**Do not simply close the X2Go client window**, as this will not log the user off and will leave the session running on the lab machine.

