

Log into the CLIMB PoreCamp server Instance's Desktop with X2Go

This will allow you to see a windowing environment (like your Desktop) rather than just a terminal! It is a great option if you want to use a GUI application (Graphical User Interface like IGV). It's very cool to see a remote desktop with Firefox and every other GUI application rendered quick and snappy over the Internet!

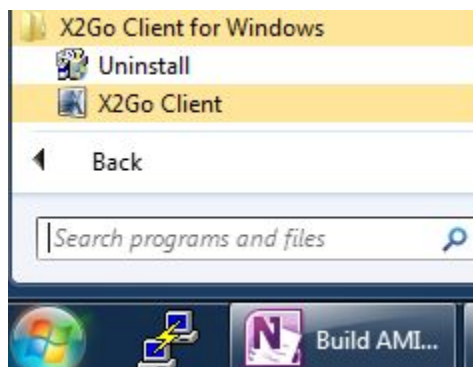
Here are the steps to get remote X2Go login working... *Note that these instructions will only work for this workshops' particular virtual machine. Many VMs will not have the X2Go server installed and therefore you will not be able to connect using the X2Go client. In these cases you will have to look at Step 4 and use SSH. But you should not need to do that for these tutorials.*

First determine whether *X2Go Client* is installed on your computer. If it is skip this section. It is not something that is installed by default, so it probably is not there.

There may be a link on your desktop:



Or type 'X2Go' into the start menu search bar



X2Go on Windows (This should already be installed - ONLY do this if you do not have X2Go on your machine)

Installing X2Go client in Windows.

If you need to install X2Go and you have a windows computer, install it from this link (you will need admin rights on your computer). These instructions are specific to people running Windows. If you have a Mac, please scroll down to the section on **Installing X2Go client on MacOSX**. If you have a Linux machine, please scroll down to the section on **Installing X2Go client on Ubuntu**.

The link to install for Windows is here:

<http://code.x2go.org/releases/binary-win32/x2goclient/releases/>

(If you do not have admin rights, alternative instructions can be found here

<http://wiki.x2go.org/doku.php/doc:installation:x2goclient>)

click on the latest link:

 [4.0.5.1-2016.06.05/](#) 07-Jun-2016 03:30 -

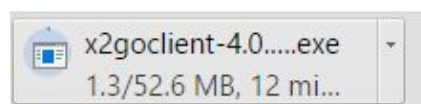
Then select the setup program.

 [x2goclient-4.0.5.1-2016.06.05-setup.exe](#) 05-Jun-2016 05:08 53M

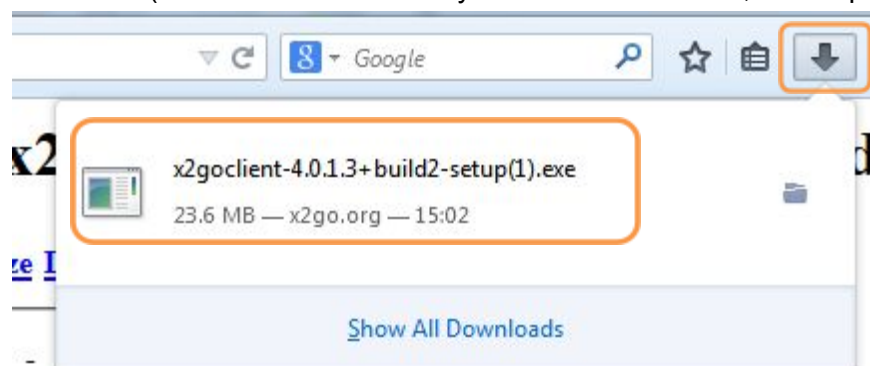
This will download the setup program to your computer.

Find the file and click on it: Depending on what browser you are using

In Chrome:



Or FireFox (version number will vary from this screenshot, do not panic :)):

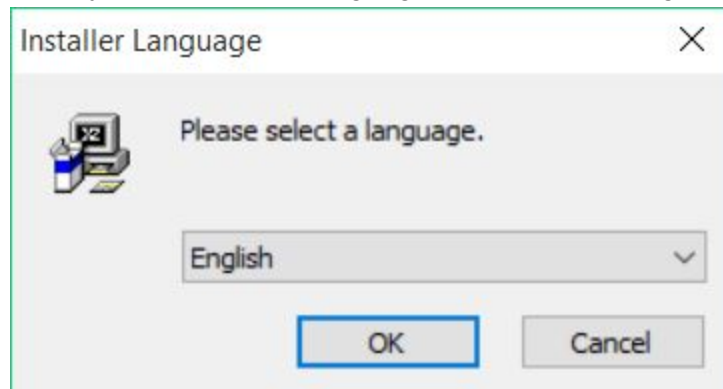


Internet Explorer (Yet again, the version number will differ, this is no cause for concern :)):

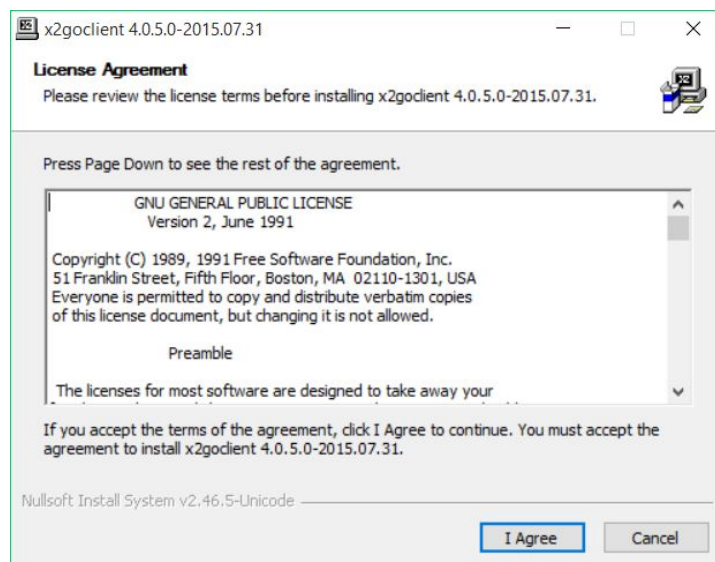


You will get a screen asking for permission to continue - select 'yes'.

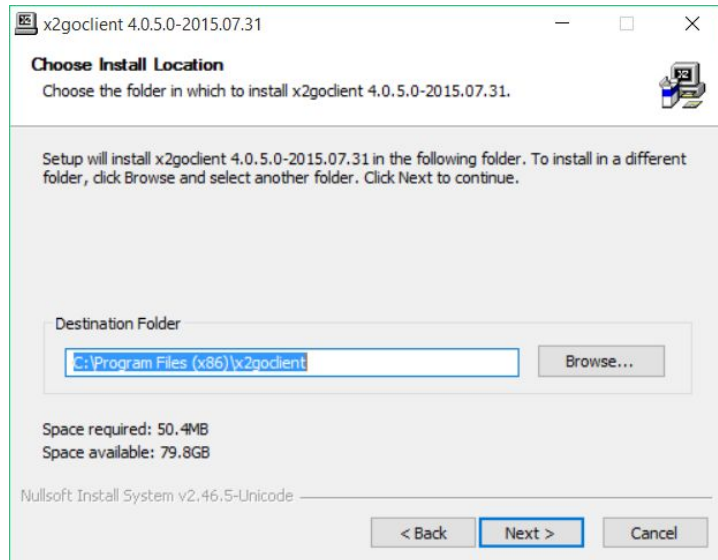
The installer will prompt you to select the language of installation. English might be fine.



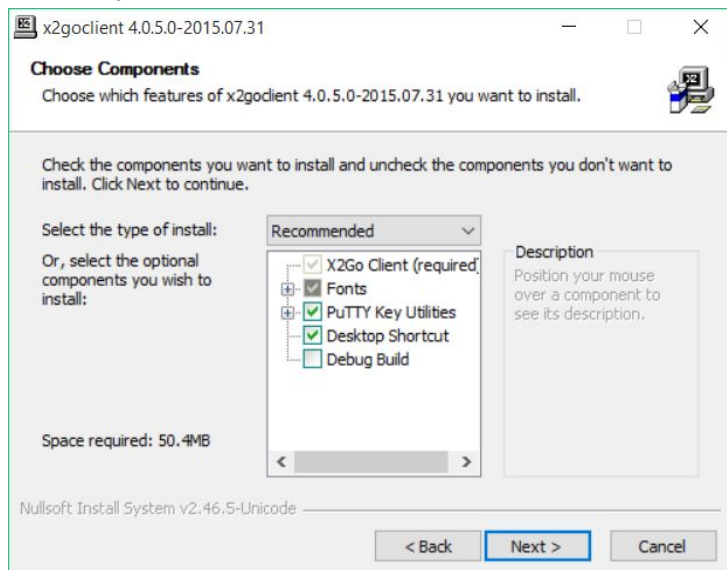
The license agreement. Click "I agree".



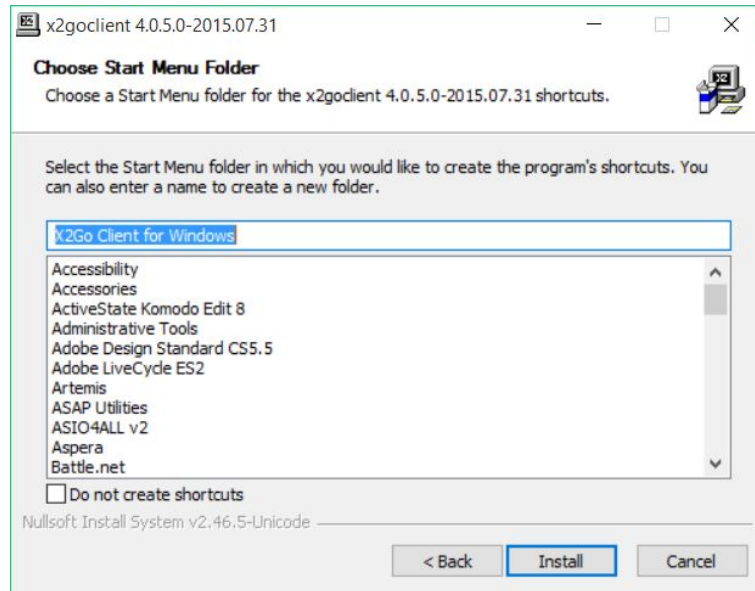
The install location. The default location is acceptable, please just click "Next".



Components. In this step you can choose components to install. Default is OK. Click **“Next”**.



The start menu location. The defaults are acceptable, please just click “**Install**”.

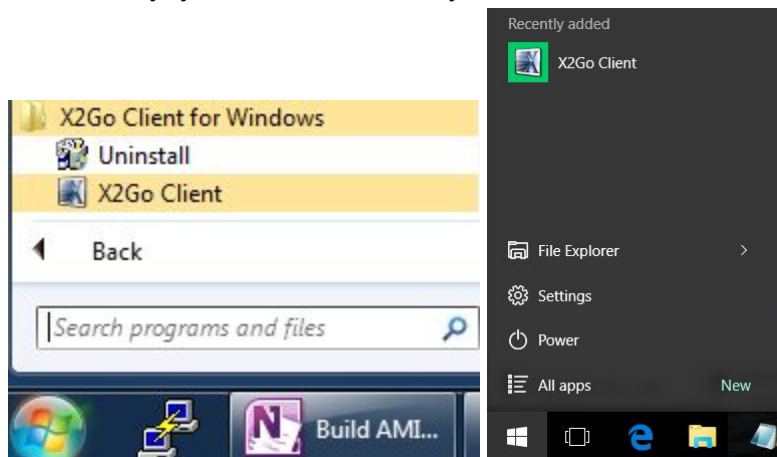


Start X2Go client in Windows.

Once installed, you should have an **X2go Client** icon on your desktop which you can double click. The icon looks like:



Alternatively, you can look for it in your Start Menu :



When you first run the **X2go Client**, you may get a message about changes to your firewall. These changes are fine.




Windows firewall changes. These changes are not necessary, so please just click “**Cancel.**”

X2Go on Mac OSX

Installing X2Go client on Mac OSX

Prior to the installation of X2Go, you will have to install XQuartz (if you haven't previously)

Download the dmg file at <http://xquartz.macosforge.org/landing/>



- Home
- Releases
- Support
- Contributing
- Bug Reporting
- GitHub

The XQuartz project is an open-source effort to develop a version of the [X.Org X Window System](#) that runs on OS X. Together with supporting libraries and applications, it forms the X11.app that Apple shipped with OS X versions 10.5 through 10.7.

Quick Download

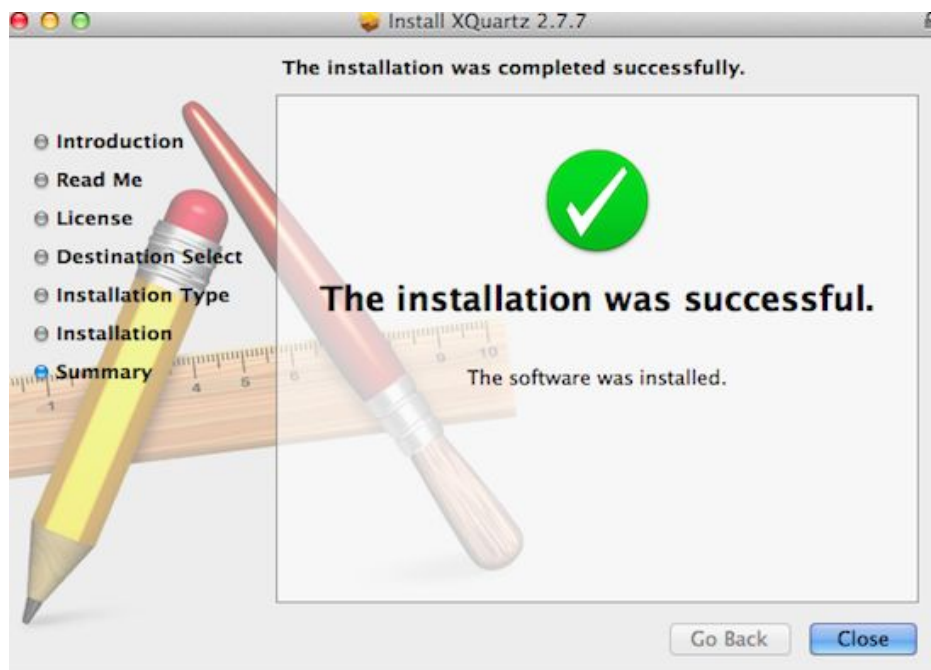
Download	Version	Released	Info
XQuartz-2.7.8.dmg	2.7.8	2015-10-17	For OS X 10.6.3 or later (including El Capitan)

License Info

An XQuartz installation consists of many individual pieces of software which have various licenses. The X.Org software components' licenses are discussed on the [X.Org Foundation Licenses page](#). The `quartz-wm` window manager included with the XQuartz distribution uses the [Apple Public Source License Version 2](#).

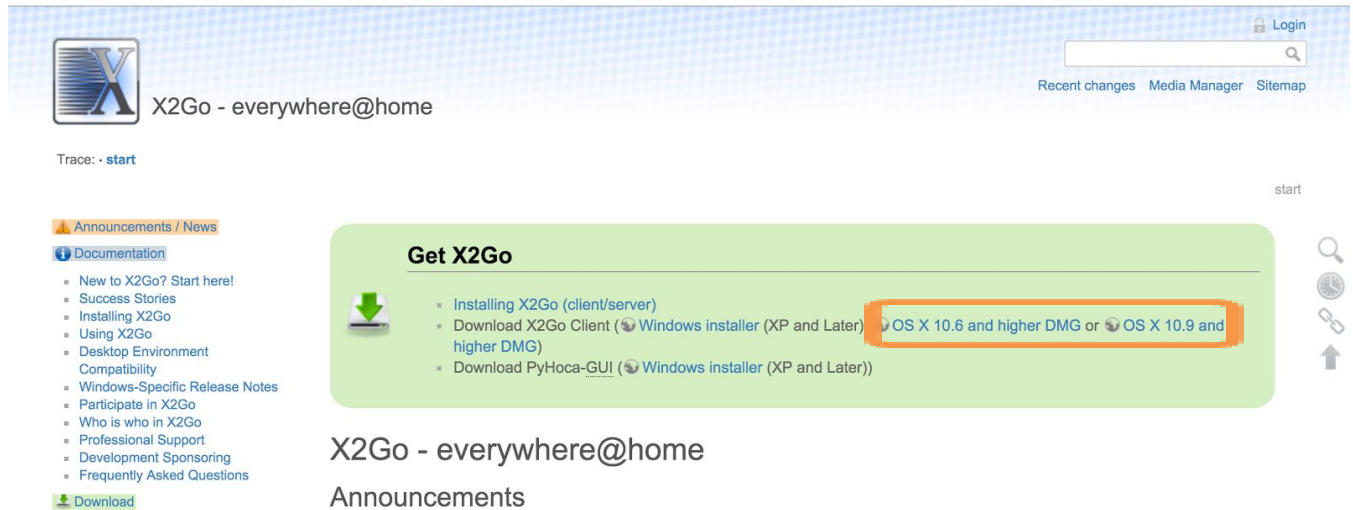
Web site based on a design by Kyle J. McKay for the XQuartz project.

Once it is downloaded, just click on the **XQuartz-2.7.8.dmg** and then open the **XQuartz.pkg**. Follow the standard installation procedures until you reach the following screen :



Once XQuartz is installed, you'll then be able to install X2Go.

Go to <http://wiki.x2go.org/doku.php> and click on the appropriate MacOS dmg for your computer to download.

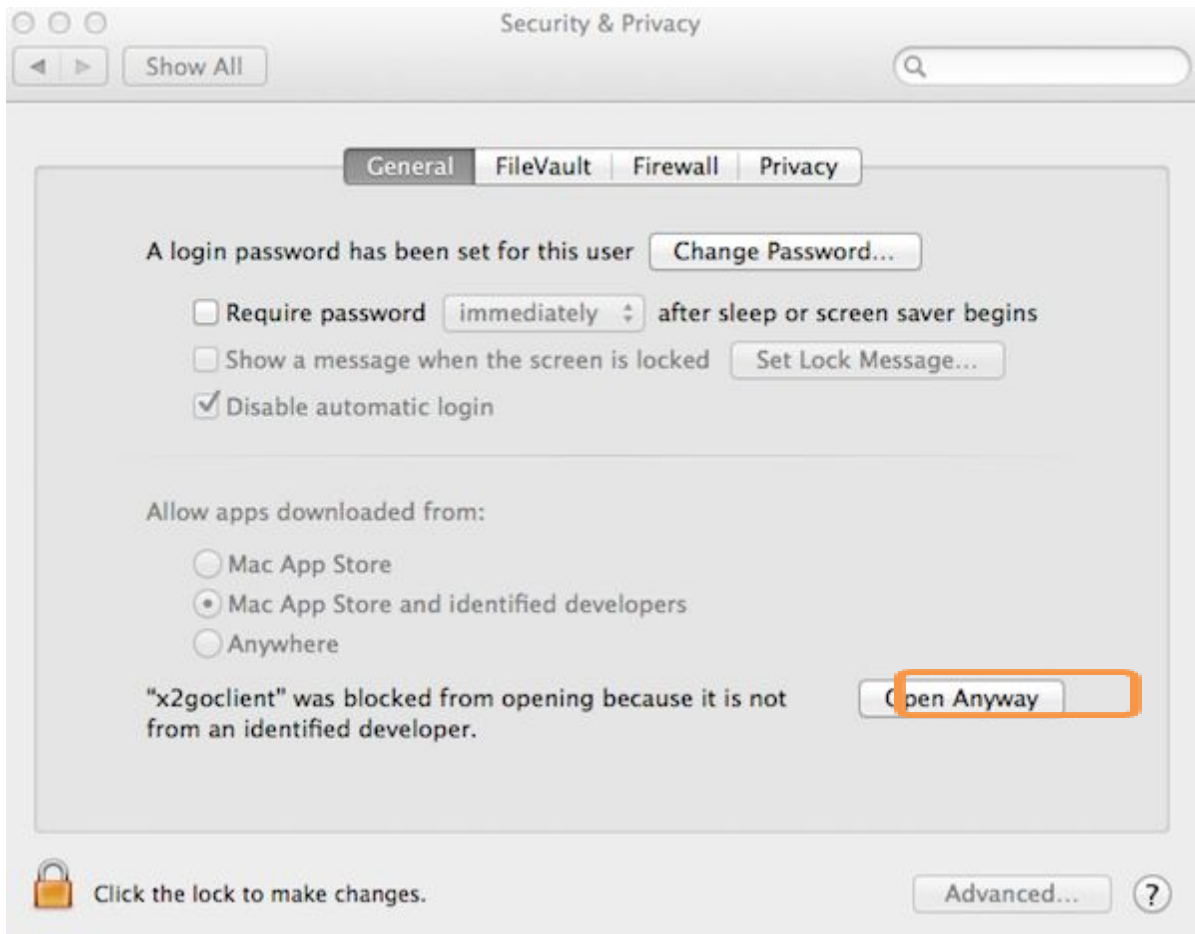


The X2Go download page. Please click on the “OS X 10.6 and higher DMG” or “OS X 10.9 and higher DMG” link as appropriate to your machine.

Once downloaded, try to open the **X2GoClient_latest_macosx_10_?.dmg** file. You may get the following warning:



If you see this message, to open the file, please navigate to your Security and Privacy settings. You can do this by going to your System Preferences (under the Apple menu in the upper left of your screen) and then clicking on “**Security and Privacy.**”



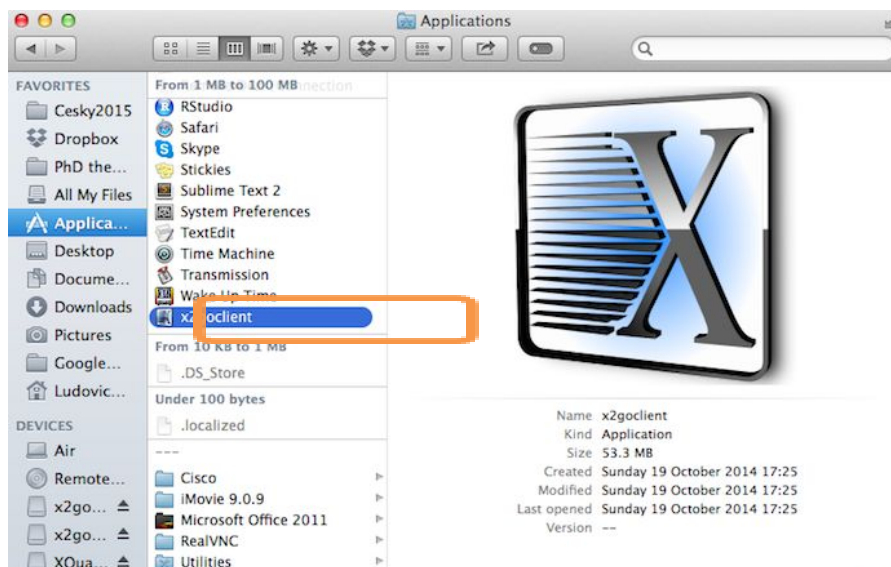
OSX's Security and Privacy settings. Please **"Open Anyway"** for the x2goclient.

You can now go back and open the **X2GoClient_latest_macosx.dmg** file. Once open, please move **x2go** into your **Applications** folder.



Starting the X2Go client on Mac OSX

From Applications, open **x2goclient**.



X2Go on Linux

Installing X2Go client on Ubuntu (Linux).

X2Go Client is part of Ubuntu 12.04 & later, as well as Debian Wheezy & Jessie. In Ubuntu, to install it you will probably need admin rights (sudo, root, etc.):

- Open a terminal (Ctrl + Alt + T)
- In the terminal, type “sudo apt-get install x2goclient ”

```
honzaj@jan-msi:~$ sudo apt-get install x2goclient
```

Detailed instructions for other Linux flavours can be found in this link:

<http://wiki.x2go.org/doku.php/doc:installation:x2goclient>

Start X2Go client in Ubuntu (Linux).

In a terminal, type “x2goclient”.

```
honzaj@jan-msi:~$ x2goclient
```

Create a session with X2Go client (all OS).

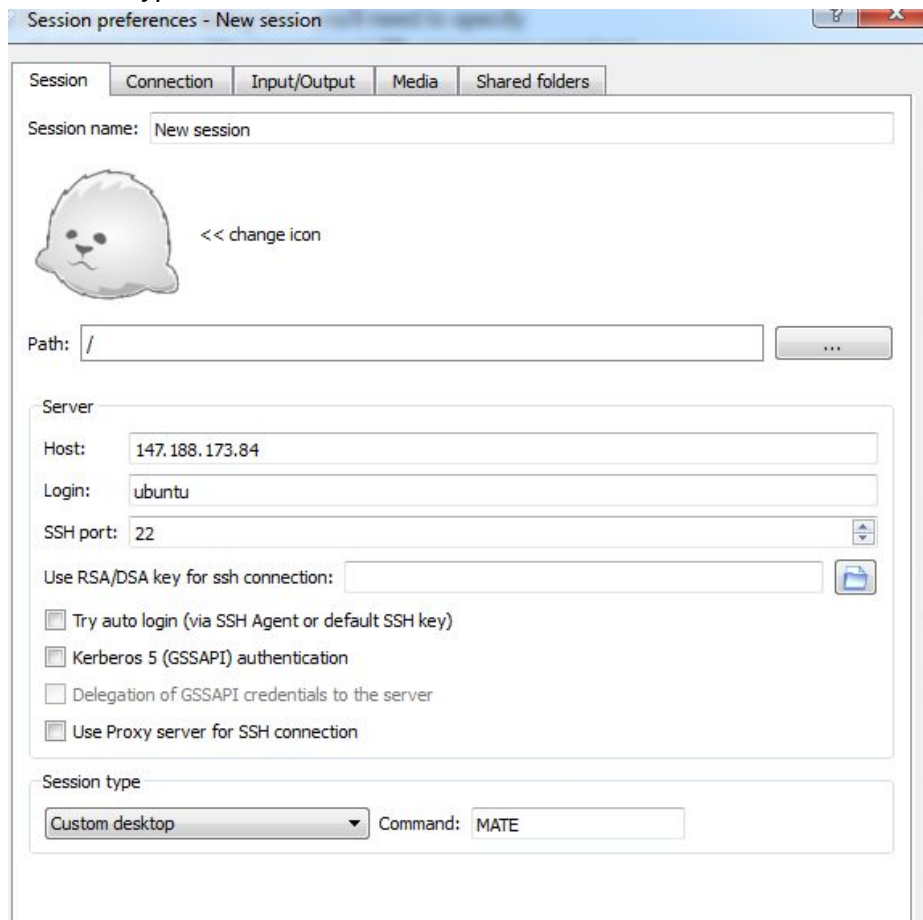
After launching X2Go in your OS (see above), you should see the main screen. **Note: on some versions of Windows you might get a security message. If so, please select “keep blocking.”**

Now you need to tell your computer where to connect to. If this is the first time you’ve opened X2Go, a new dialog will automatically pop up. If this is not the first time, then you’ll need to click on the “New session” icon.



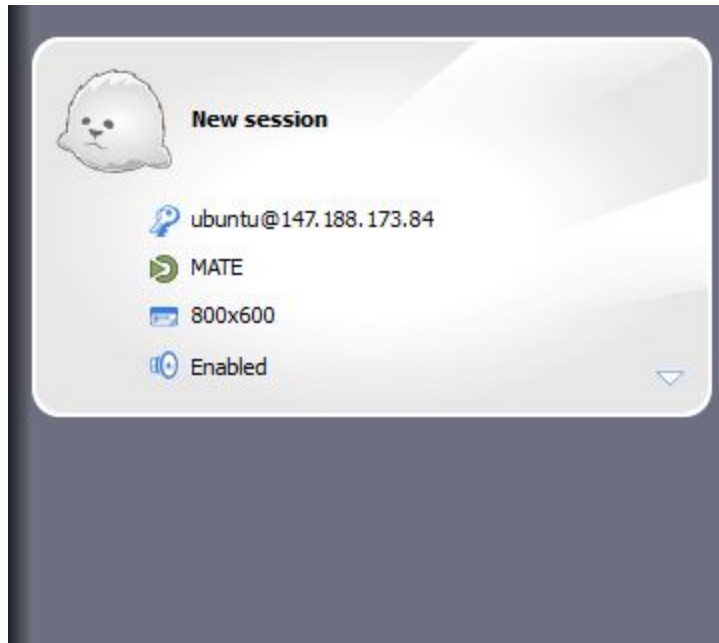
Within the new session dialog box, you’ll need to specify:

- *A session name.* We recommend “**My porecamp session**”.
- *A host.* This is your instance. Please enter the **Public DNS** of your group server
- *A login.* This is the username. Please enter “**ubuntu**”.
- *The session type.* Please select “**MATE**”.

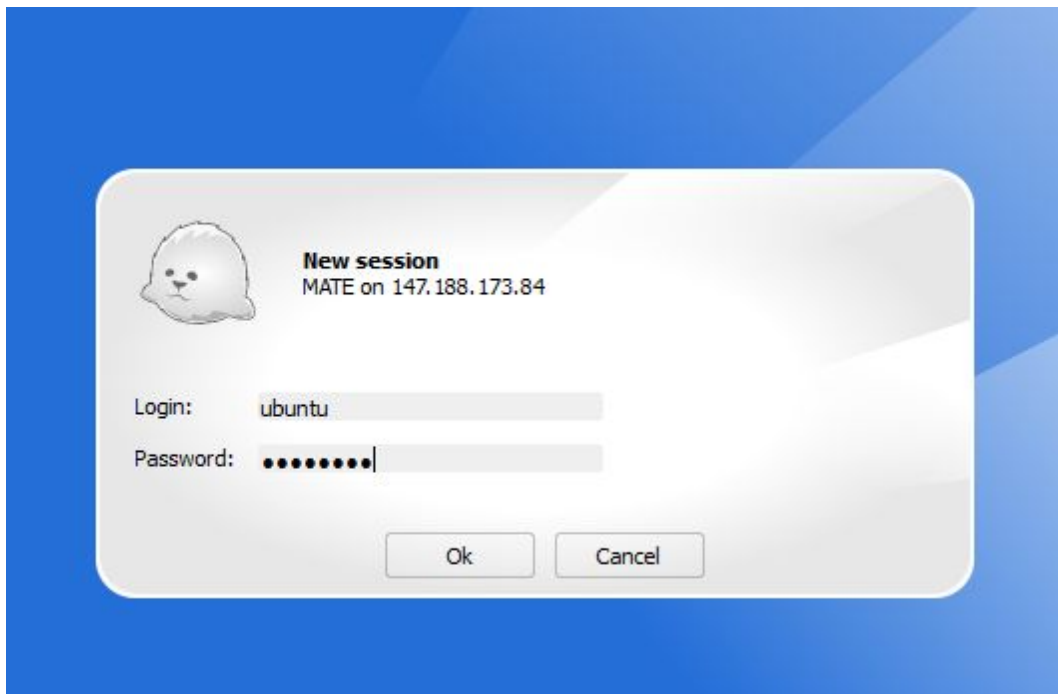
A screenshot of the 'Session preferences - New session' dialog box. The dialog has a title bar and several tabs: 'Session', 'Connection', 'Input/Output', 'Media', and 'Shared folders'. The 'Session' tab is active. It contains the following fields and options:

- 'Session name:' text box with 'New session' entered.
- A default Linux desktop icon (Tux) with '<< change icon' text next to it.
- 'Path:' text box with '/' and a browse button (...).
- 'Server' section with:
 - 'Host:' text box with '147.188.173.84'.
 - 'Login:' text box with 'ubuntu'.
 - 'SSH port:' spinner box with '22'.
 - 'Use RSA/DSA key for ssh connection:' text box with a key icon.
 - Four unchecked checkboxes: 'Try auto login (via SSH Agent or default SSH key)', 'Kerberos 5 (GSSAPI) authentication', 'Delegation of GSSAPI credentials to the server', and 'Use Proxy server for SSH connection'.
- 'Session type' section with:
 - A dropdown menu set to 'Custom desktop'.
 - 'Command:' text box with 'MATE'.

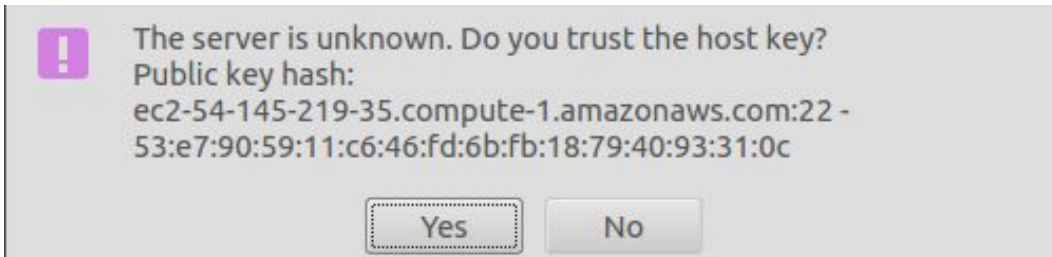
When you click on OK, you should be taken to a new page that looks like the following.



Click anywhere on the white area. This will bring up a new prompt that will allow you to enter a password. Please enter “**porecamp**” as the password.



The first time you connect to your instance (or if the public DNS changes) you will see a message that looks something like this (look of this error is dependent on your system, so it does not have to be exactly same as here) :



Simply click next/yes to continue.

Note : If you are using Mac, you will see two error messages one after the other, just ignore them.

After approximately 30 seconds, you should see the connection open.

Congratulations!

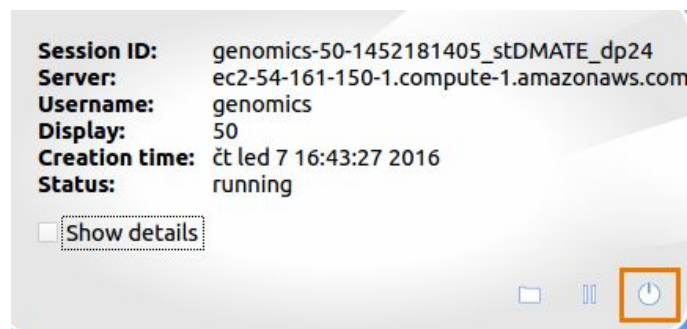
Connection Management

At the end of a working session, first we will need to suspend the connection from X2Go to the Amazon Cloud, then stop the Amazon Cloud instance.

Suspending and reconnecting connection in X2Go

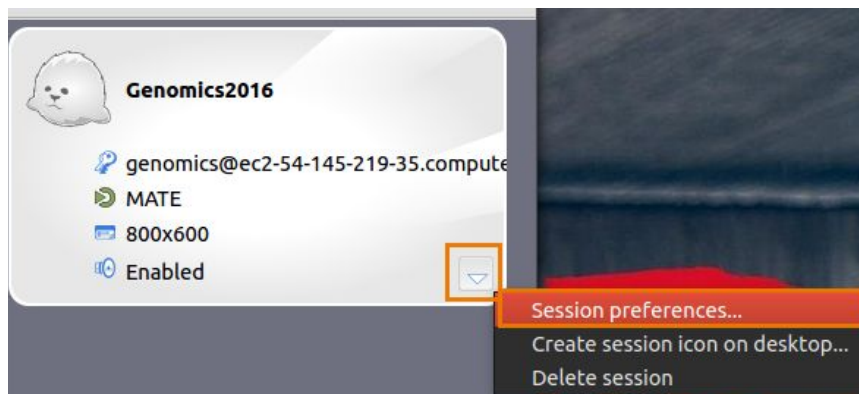
Disconnecting

When you disconnect from X2Go, this will close all your windows and log you off the instance. **The Instance will still be running so make sure you stop in the AWS console – see below.** To disconnect, please go to your X2Go terminal, and click the button on the bottom right.



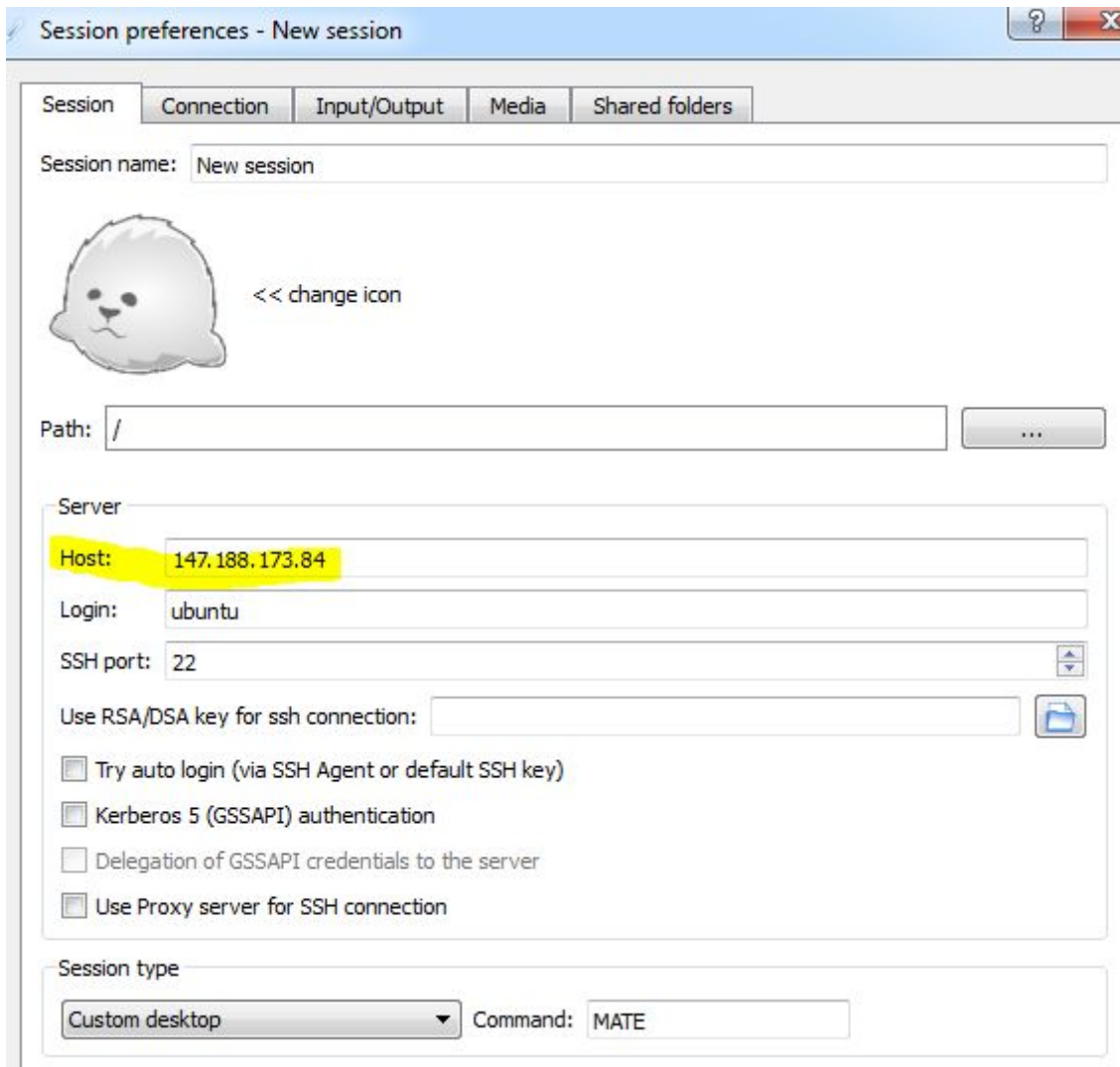
Reconnecting

In case the VM is stopped and then started, its DNS address may change. If this happens you will need to update it in the X2Go client. To update, please navigate to your session preferences.



An example of navigating to your X2Go session preferences.

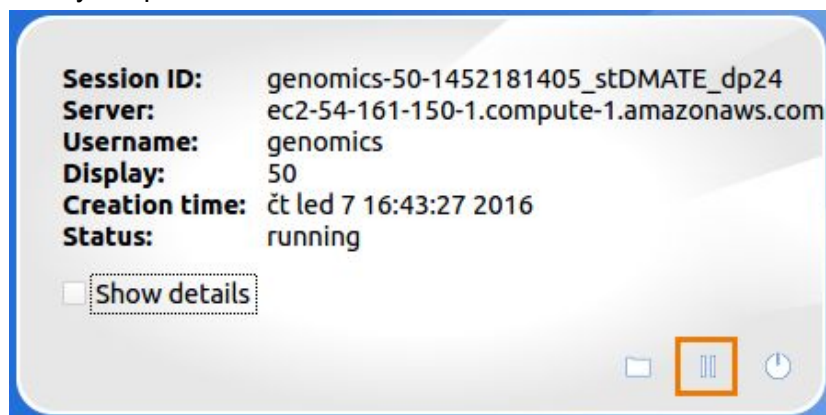
Within the session preferences, please go to the Session tab. You can modify the “**host**”, which is where you need to specify your new **Public DNS**.



*The host field in the Session tab of your Session preferences. The value in this field needs to be the same as your **Public DNS** of your EC2 instance.*

Suspending

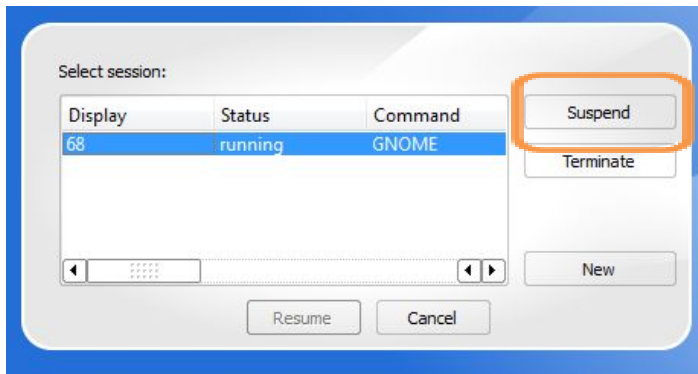
If you want to close X2Go but leave windows open and running, instead of disconnecting, you can alternatively suspend the session.



Within your session details, if you'd like to suspend the session, please click the pause button.

You can now resume your session later on from exactly where you left off.

If your desktop computer crashes or disconnects for any reason - your session should still be running. When you try to log on you will see a this window:



Note that 'Resume' is greyed out...

Click on suspend first and then you can click on resume.