How to setup a X2go client connection

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A X2go server allows you to run Linux X-windows applications and display them locally on our desktop. Before you can connect to this server you have to install a X2go client application.

On the X2go server many Linux applications which are installed on CLZ classroom computers are available to you. Most of them are installed in /usr/local and /usr/bin

You can **not** have more than one session active on this server !

It is possible to suspend your session, leaving your computer and resume on another computer.

Download and installing X2go client software

Windows 10

The latest version of X2go client regularly crashes under Windows, we strongly advise you to install the previous version: https://code.x2go.org/releases/binary-win32/x2goclient/releases/4.1.2.0-2018.06.22/x2goclient-4.1.2.0-2018.06.22-setup.exe

All versions: https://wiki.x2go.org/doku.php/doc:release-notes-mswin

Depending on your local Firewall/Defender settings you may get dialogs about allowing different protocols, please 'OK' these.

General installation instructions: https://wiki.x2go.org/doku.php/doc:installation:x2goclient

MacOSX

Download the appropriate version of the X2go client
MacOSX 10.9 – 10.10 https://code.x2go.org/releases/X2GoClient_latest_macosx_10_9.dmg
MacOSX 10.11 – 10.12 https://code.x2go.org/releases/X2GoClient_latest_macosx_10_11.dmg
MacOSX 10.13 and up https://code.x2go.org/releases/X2GoClient_latest_macosx_10_13.dmg
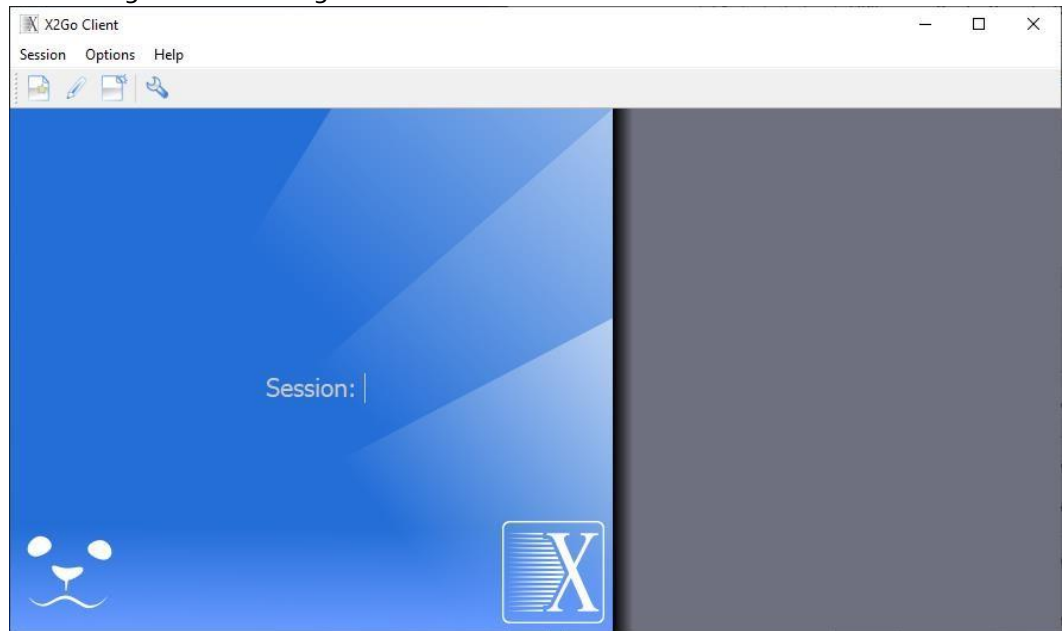
General installation instructions: https://wiki.x2go.org/doku.php/doc:installation:x2goclient

> *MacOSX users should be careful when adding clipboard copy and paste settings from*
> *https://wiki.x2go.org/doku.php/doc:installation:x2goclient to ~/.Xdefaults*
> *Use >> instead of > when adding these settings otherwise any existing ~/.Xdefaults file will be*
> *overwritten.*

Linux

Most linux distributions include the x2go client software. You should be able to install it from your standard repositories with the usual package manager (apt, yum, pacman, or similar).

Configure X2go connection

These instructions are for both MSWindows and MacOSX

First start x2goclient.You will get the following window.

Type ctrl N for setting up a new session (cmd N on MacOSX)

Select tab **Session**

Enter the following values for the named fields:

Session name: **X2go xterm**
Server

       Host: **x2go.science.uu.nl**
       Login: **"your solis-id"**
       SSH port: **22**

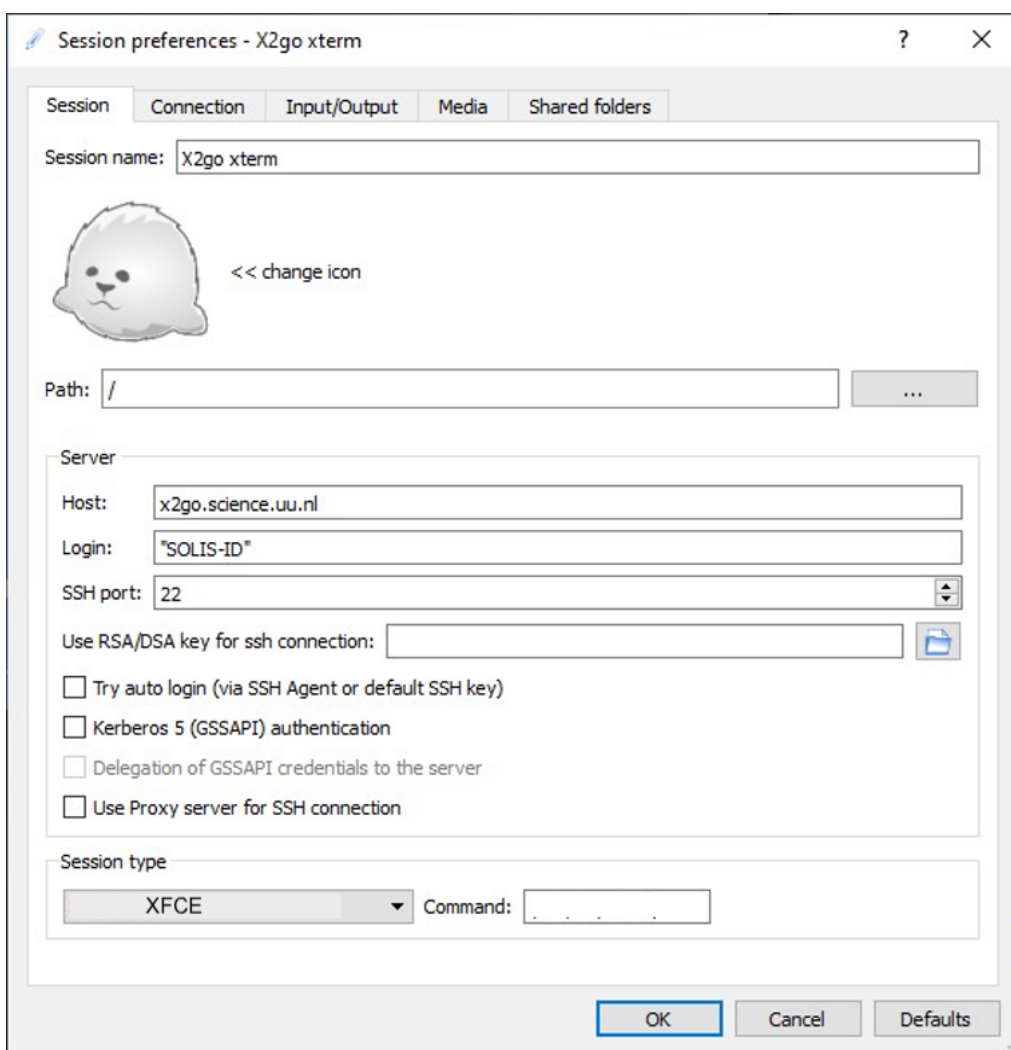Session type:

       select from pulldown menu: **XFCE**
       Command: <leave empty>

Fig 1.

Note:
It is possible that there is a problem starting the file manager "Thunar" in XFCE:
"Failed to open directory 'solis-id'.
Error when getting information for file '/nethome/solis-id/.gvfs': Transport endpoint is not connected."
Remove .gvfs folder on gemini.science.uu.nl.

```
ssh 'solis-id'@gemini.science.uu.nl rm –rf ~/.gvfs
```

Select next tab **Connection**

Connection speed:
- Set slider to ADSL
- Set compression method to: 4k-png

Select next tab **Input/Output**

Display (depending on your screen size): suggested width: **1280,** height: **800 px**
Set Display DPI: **96** dpi   (72dpi for MacOSX)

Clipboard method:
 select **bidirectional copy and paste**

Select next tab **Media**
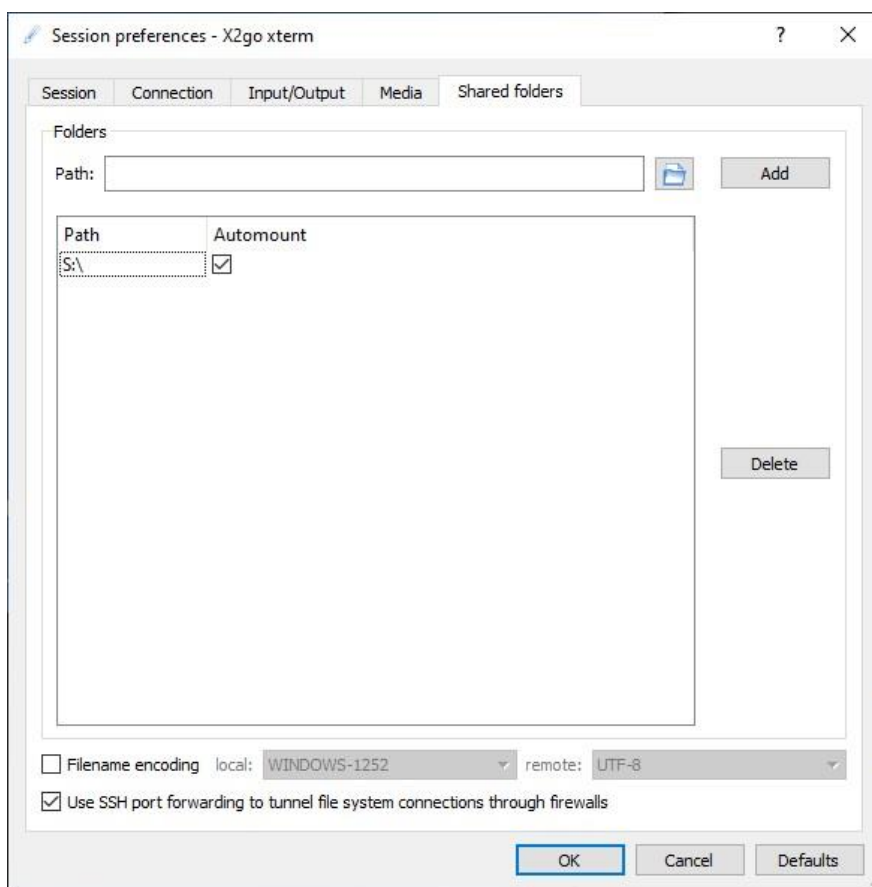
Deselect: e**nable sound support**

Select next tab **Shared folders**

If you want you can share folders from your desktop or laptop

See wiki.x2go.org/doku.php/dochowto:x2goclient-file-sharing for more information about
how to mount client side folders.

Don't forget to select the 'automount' and 'use SSH port' checkbox to tunnel file system connections through
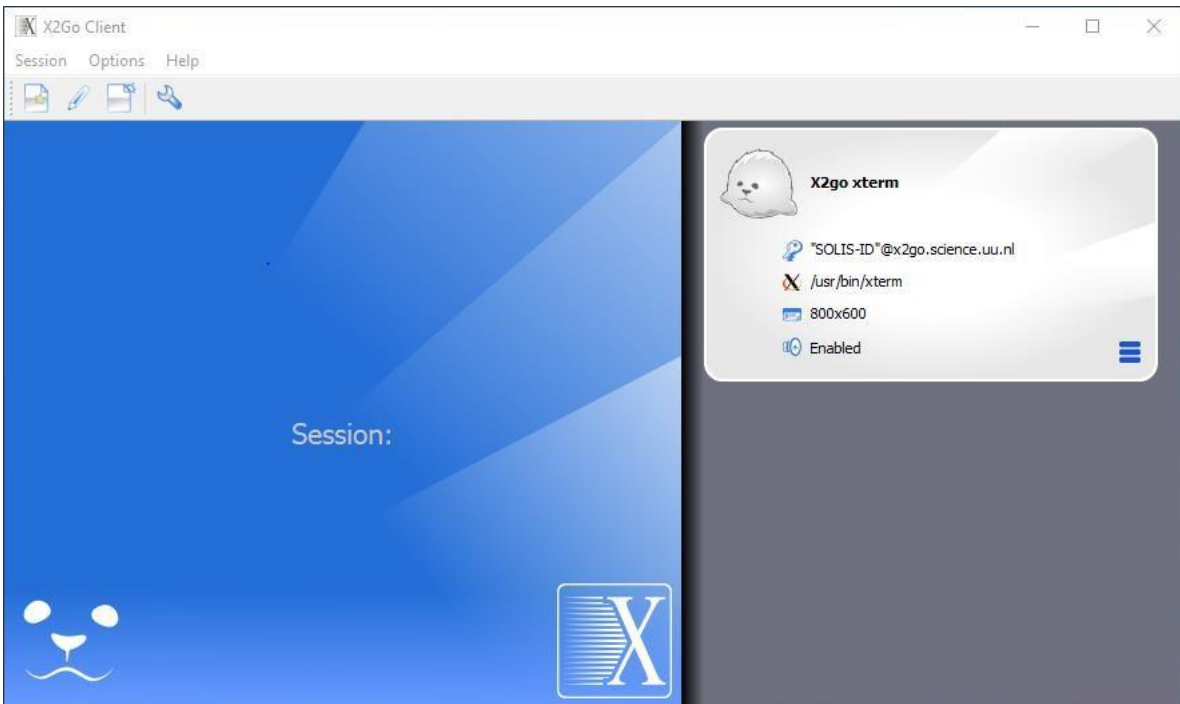the firewalls.
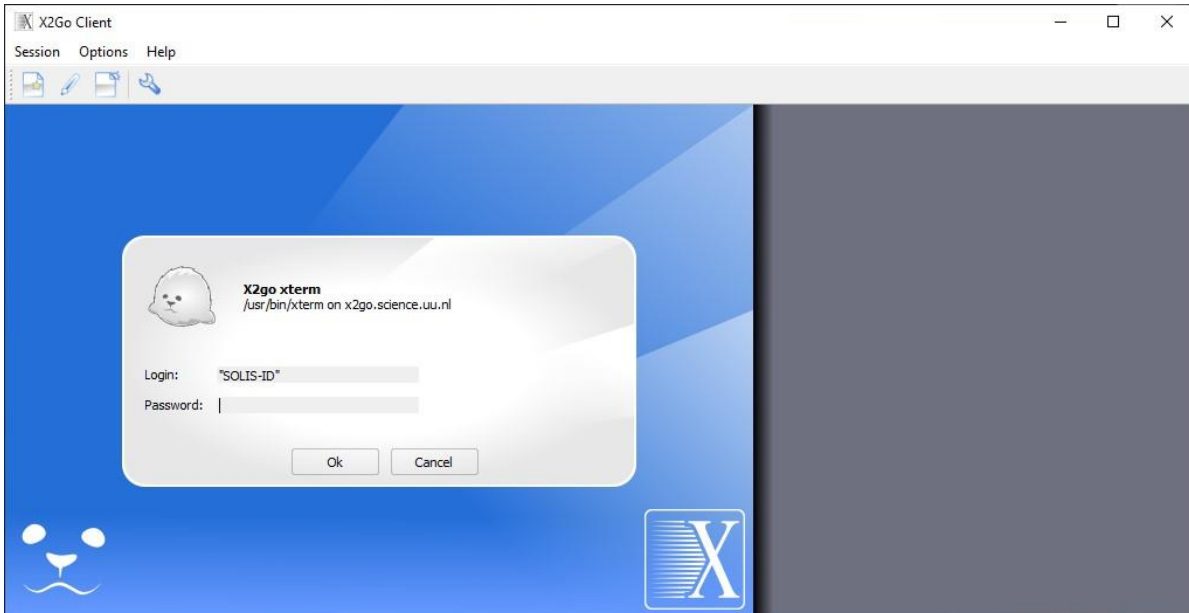In general you will find your shared folder(s) in $home/media/disk/... on the x2go server.

Press **OK** and your settings are saved.
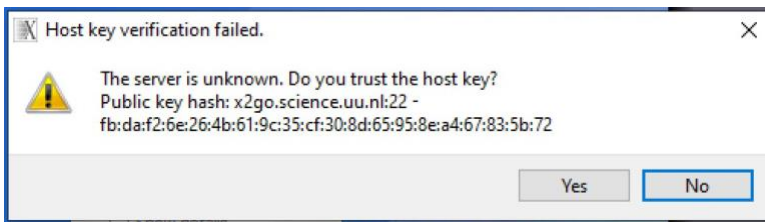
Connecting with x2go client

Start the X2go session you saved earlier by clicking the bold text **X2go xterm text**
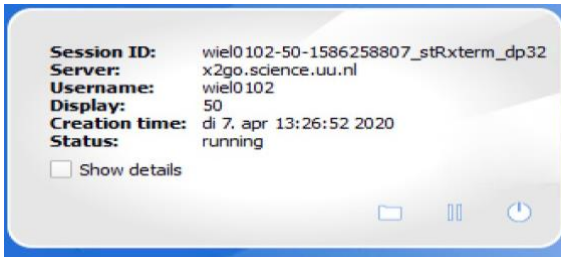

Enter your solis-id and password.

The first time a window will pop up and probably ask something about do you trust the host key? Click **Yes**

It wil take about half a minute to setup the first connection and a window similar to below will appear.

Your Linux desktop should now appear.

Suspend/close X2go session

You can suspend your current session, leaving the computer and resume on another computer. Tick pause || in your session window (this window will probably be behind your Linux desktop).
Otherwise please close your session (preferred) to free up computing resources for other users.

Setting environment variables for certain programs

Most programs should run similar to the installed programs on the Ubuntu classroom computers. But some need specific environment variables as stated below. Once a terminal window is started on the X2go server you can enter commands.

Crystallography

Before running software for crystallograpy first set environment variables for the latest program versions with

    $ source /usr/local/kristal/setup_env_new

Root

Set environment variables for Root
Go to a directory where you have write permissions.

    $ cd $HOME
    $ source /usr/local/root/bin/thisroot.sh

Other

High resolution screen (4k screen)

If you are using Windows on a high-resolution screen, we recommend the following:

Navigate to the C:\Program Files (x86)\X2GoClient\VcXSrv\ directory in Explorer. Select the vcxsrv.exe file and right-click it, choosing Properties from the popup menu. Go to the Compatibility tab, and in the Settings section there, select the option "Override high DPI scaling behavior. Scaling performed by:" and then select "Application" in the combo-box below.

Restart the X2Go Client to have its X server start with this new setting.