X2go remote access instructions

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Abstract

This document describes how to install and set up X2go client for remote access to one of our servers for work with the tracking software. The described procedure is based on installation under Windows 7, but should work with other versions as well.

1 Install your private key file

To access our server, you will need a valid **username** and a **private key file**, which **we created and sent to you** (either as an e-mail attachment or as an link where you can download it). The username generally has a form of your first name and the first letter of your surname. The private key is a file named *username@servername*.

In this document, username *leonardol* is used as an example, and thus the private key file is called *leonardol@tornado*. **When following these instructions, be sure to replace any occurence of "leonardol" with the username we gave you!**

After you downloaded the private key file from our server, or saved it from the e-mail attachment, put it somewhere safe — a place where you will not accidentally move or delete it. For the rest of these instructions, we assume that the private key file has been stored in user's Documents folder.

2 Install X2go client

Grab and install the latest version of X2go client for Windows from the link below. The installation requires administrator privileges, and will create an icon on your desktop.
`http://code.x2go.org/releases/X2GoClient_latest_mswin32-setup.exe`

Figure 1: X2go client desktop icon.

3 Setting up X2go client

When you run X2go client for the first time, you might get Windows Security Alert (Figure 2), asking you to allow *pulseaudio.exe* program to communicate on network. For X2go to work correctly, you need to allow this. **Important:** if your work network happens to be classified as a public network, you need to allow access on public networks as well. If unsure, select both.

Figure 2: Allowing network access for program *pulseaudio.exe*.

The program will then ask you to configure a session; fill in the fields as shown in Figure 3. The server host must be set to **mvg06.fe.uni-lj.si**, SSH port to **9023** and login to the user name we gave you (in this example, it is *leonardol*). Under *Use RSA/DSA key for ssh connection*, you should put the path to your private key file, which you set up in Step 1 (in the example in Figure 3, the key has been stored in my Documents folder).

Under *Connection* tab, choose your connection type. Since this is connection between your place and and our server, it is difficult to tell what it should be set to; leave it at ADSL, and if you have issues with X2go, try lowering it towards ISDN or MODEM. Note that the slower connection type means lower graphics quality and likely greater latency in graphics programs.

In *Settings* tab, turn off sound support and client side printing support,

since you do not need them. The display resolution can be kept at 800×600 for now; depending on the connection speed, you can try increasing it later[1].
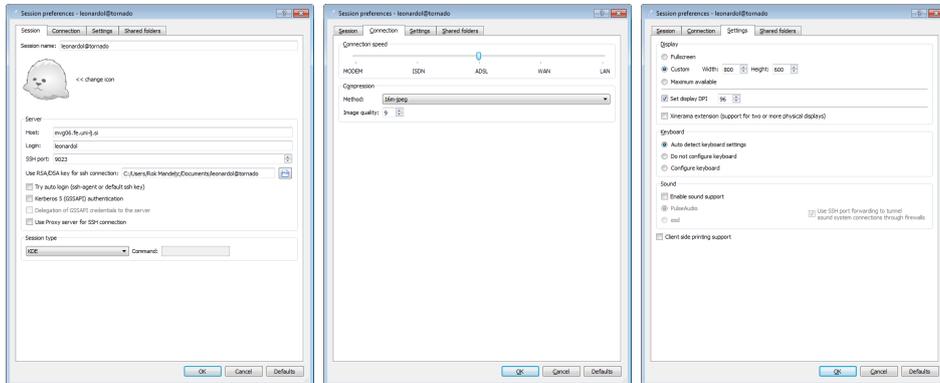

Figure 3: Session configuration. *Login* should be set to the username that we gave you, and *Use RSA/DSA key for ssh connection* should point to your private key file.

Press *OK* to close session dialog, and your session will appear on the right side of X2go client's window.

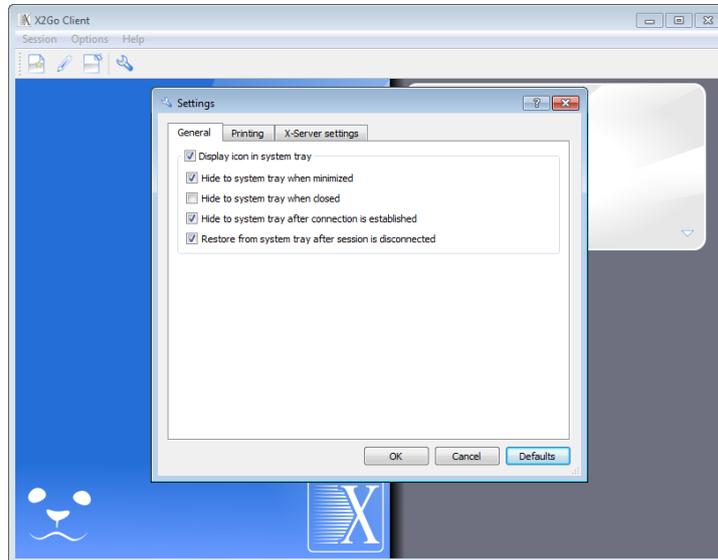Now, go to *Options→Settings* in X2go client's menu, and set the options as shown in Figure 4.

Figure 4: X2go client settings.

You are ready to connect to server; click on the session on the right side

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[1]You can change any session settings later by clicking on *Session→Session management...* in X2go client's menu, then choosing your session and clicking on *Session preferences*.

of X2go client's window, and it should start connecting. The first time you try to connect to the server, it will ask whether you trust the server's key (Figure 5) — answer Yes. Afterwards, you might again receive Windows Security Alerts, this time for *vcxsrv.exe* and *x2goclient.exe* (Figure 6); you need to allow both (again, if your work network happens to be classified as a public network, you need to allow access on public networks as well).
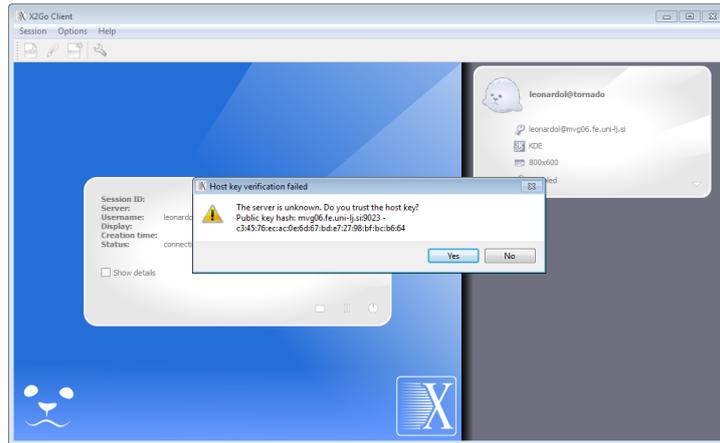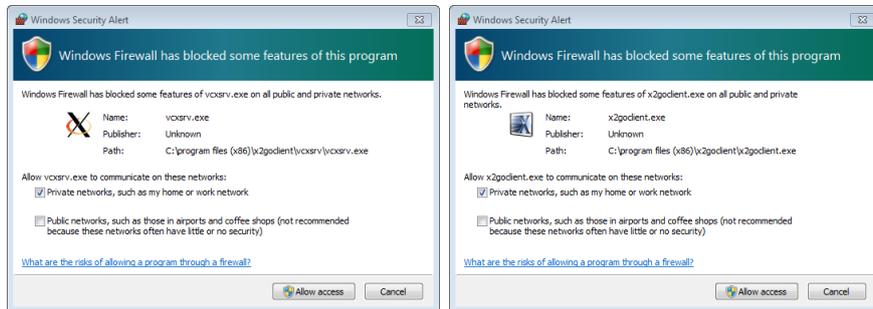

Figure 5: X2go client settings.

Figure 6: Allowing network access for programs *vcxsrv.exe* and *x2goclient.exe*.

After connection is established, you should get a window with virtual desktop on our server, as shown in Figure 7. You might need to resize the window a bit in order for desktop to display correctly.

3.1 Closing session

To close your session, click on f-shaped sign on the taskbar in virtual desktop, then select *Leave → Log out*.

Another way to close your session is to go to the message tray on your Windows taskbar, find X2go client icon, right click on it, then select your
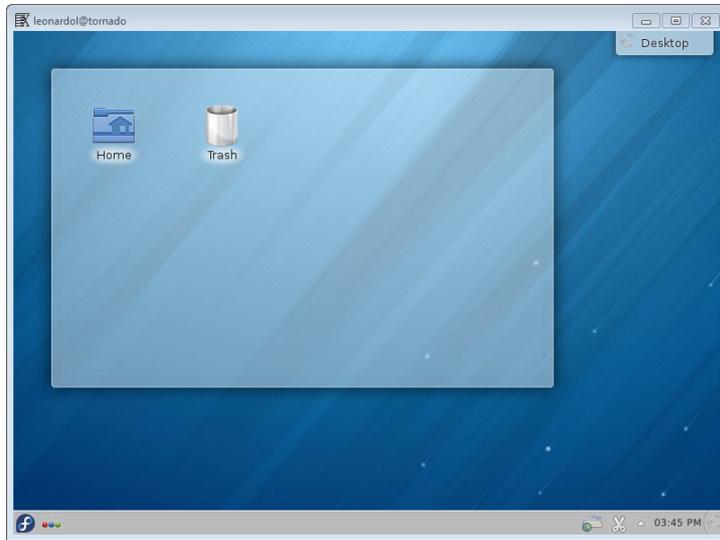
Figure 7: KDE desktop in X2go client.

session (*leonardol@tornado*) → Terminate.

Note that closing your X2go client window with virtual desktop only suspends your session.

3.2   Suspend and resume

X2go supports session suspension and resume. To suspend your session, simply close your X2go client window. The session will keep running on our server, so next time you connect to it, it will be in the state you left it.

Another way to suspend your session is to go to the message tray on your Windows taskbar, find X2go client icon, right click on it, then select your session (*leonardol@tornado*) → Suspend.

The session is suspended also in the case of interrupted connection and usually also if your Windows computer crashes.

To resume a suspended session, simply try to connect to it again.

When you try to create/resume a session and there already is a session, running, X2go client will display a list of sessions with their state, and offer you to suspend or terminate a running session, resume a suspended session or create a new session (Figure 8).
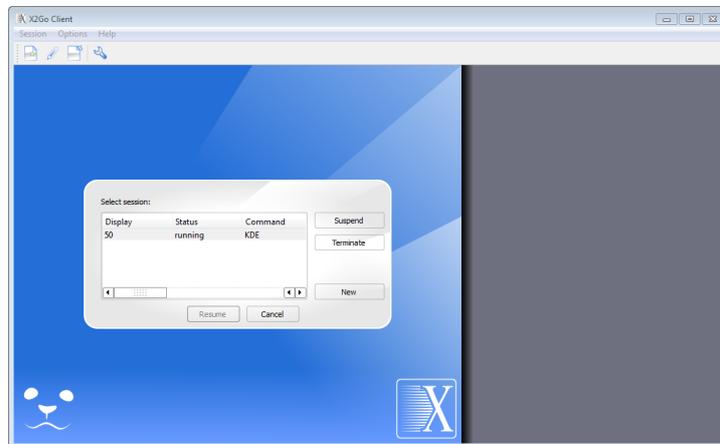
Figure 8: List of already-running sessions.

4 Using the tracking software

To use the tracking software, open a terminal by clicking on **Konsole** icon, which is located on your virtual KDE desktop inside X2Go client window. Type `cd tracker` and press Enter — this changes the directory to the one containing the software.

Then, type the name program you want to run, followed by the filename; to run **tracker**, type `./track.sh`, to run **annotator**, type `./annotate.sh`, etc[2].

The easiest way to obtain the filename is to open file browser (click on **Home** icon on your virtual KDE desktop). Find the video file, which should have been uploaded to the server beforehand. Select the file by clicking on it while pressing Ctrl-key (if you do not press Ctrl, the browser will try to open the file in media player!). Once the file is selected, release Ctrl-key, then drag the file onto the Konsole window. When a menu appears, select *Paste Location* (Figure 9). Then, correct the name in terminal as necessary, and press Enter. For demonstration of these steps, see this video.

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[2]Note that unlike in Windows version of tracking software, the program names must start with "`./`" and end with "`.sh`" (for example, `track` → `./track.sh`)
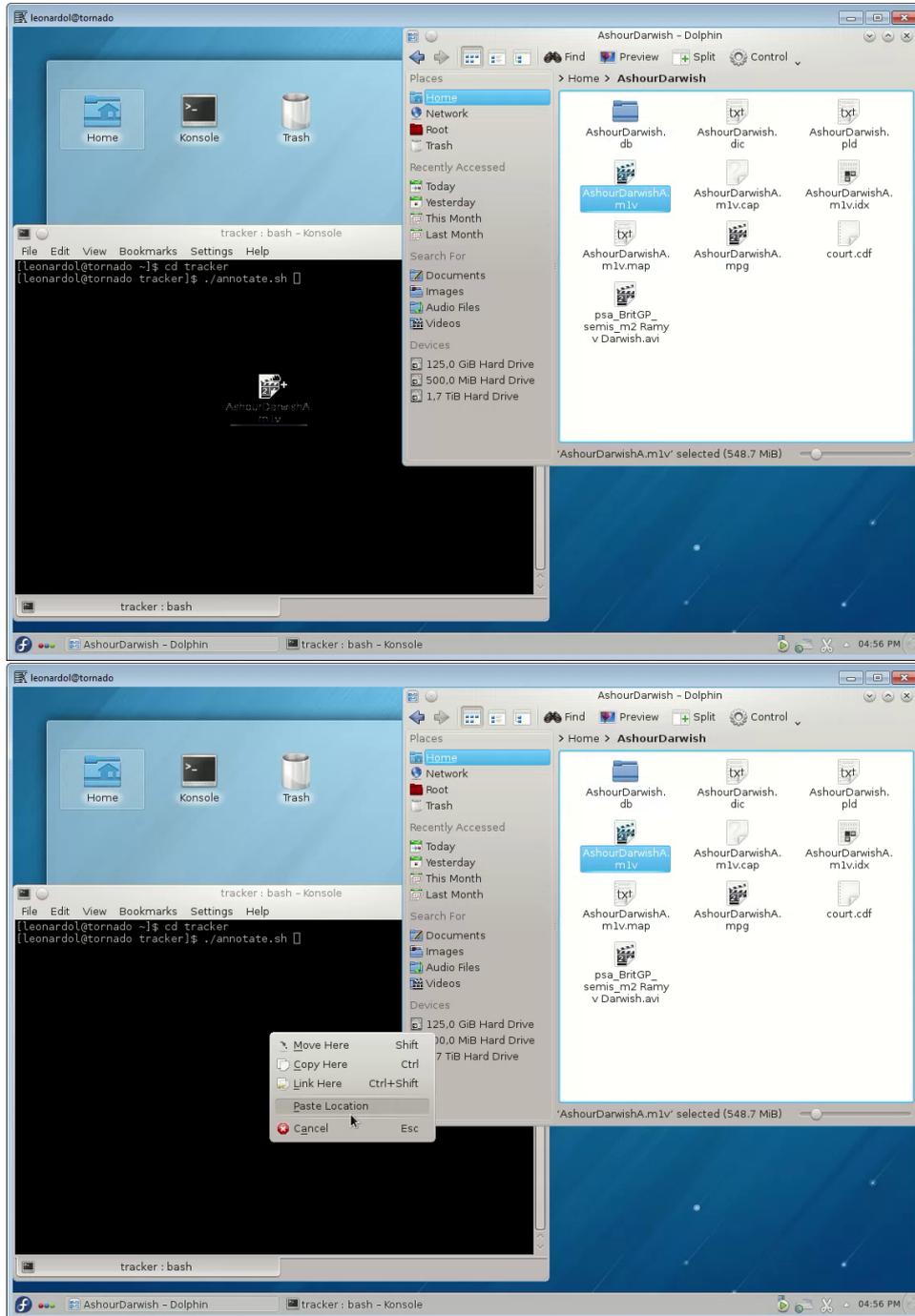
Figure 9: Dragging file from file browser to Konsole and pasting its location after dropping it.