

1 – The DTU HPC cluster

1.1 Log in to the DTU Unix systems with ThinLinc

ThinLinc allows you to get a Unix desktop from the central DTU Unix system (a.k.a. the G-databar) on your local laptop or computer. It's like Windows' Remote Desktop, but just for Unix. To get started, you have to install the ThinLinc client on your computer. If you haven't done that, yet, go to <http://www.cendio.com/thinlinc/download>, and download the client for your operating system.

When you start the client, you have to type in the name of our ThinLinc server, i.e. `thinlinc.gbar.dtu.dk`, and your usual username and password. Don't use the pre-filled server name! After a succesful connection, you need to choose a desktop layout — just accept the default (XFCE), and after a while you will see a desktop like the one in Fig. 1.1 to the right.

As a starting point for today's labs, create a Folder (call it e.g. 'HPC', 'HighPerformanceComputing' (note: no space in name!) or '02614'), on the desktop: start the 'File Manager' (from the bottom panel, or from the 'Applications Menu' on the top of the desktop), choose the Desktop, and then use either the 'File' menu or the right mouse button to create the folder.

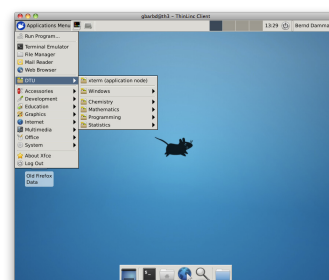


Figure 1: ThinLinc desktop

Now start the web browser (from menu or panel), and download the ZIP file with today's lab material from Campusnet, into the folder created above. Unpack the ZIP file, e.g. by right-clicking on the file, and using the tool suggested. This should create the sub-folders, which contain the files needed to do the lab exercises.

File transfer to/from the Unix systems

When you are on the DTU network, e.g. via eduroam, you can directly access your Unix home directory from your laptop, by mapping it as a network drive.

Windows: Go to 'This PC', 'Map Network Drive' and use `\\home.cc.dtu.dk\<username>` in the address field.

Mac OS X: In the Finder, press `command-K`, and then type `smb://home.cc.dtu.dk/<username>` in the 'Server address' field.

Linux: Most File Managers support the SMB protocol — just type `smb://home.cc.dtu.dk/<username>` in the location field.

`<username>` above is a placeholder for your DTU account name, e.g. `s123456`.

Outside DTU, you can transfer files to and from the Unix system with tools like FileZilla (all platforms), or WinSCP (Windows). Use `transfer.gbar.dtu.dk` as the server for this purpose. More information can be found on the G-bar webpages <http://gbar.dtu.dk> (search for FileZilla or WinSCP).