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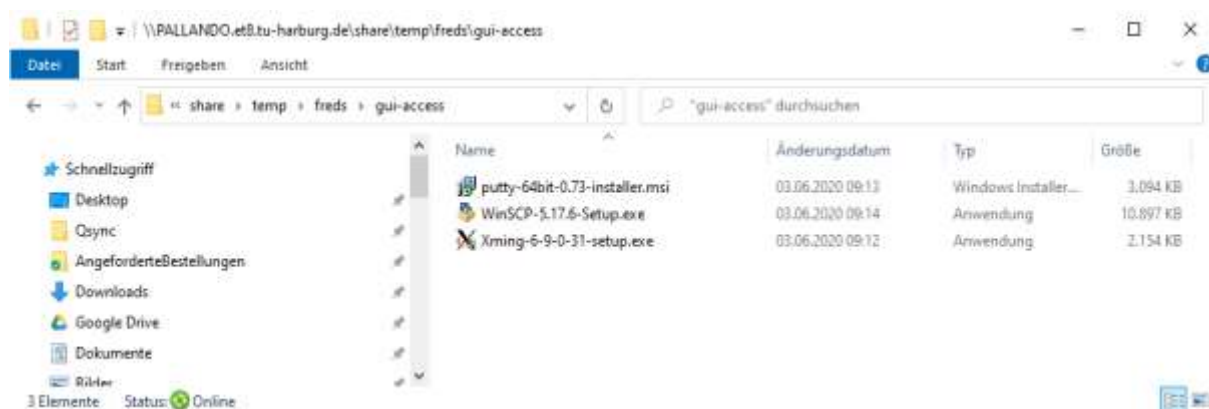
Alternatives

To access remote compute workstations or servers you have 3 alternatives:

1. Using windows remote desktop protocol, with win10 remotedesktop-connection for a whole desktop, if your account is permitted to do so
see: <\\PALLANDO.et8.tu-harburg.de\share\mtec\documents\Wiki\mtec-working-remotely.pdf>
or : \\PALLANDO.et8.tu-harburg.de\share\mtec\documents\Wiki\mtec_remote_access_compute_plf.pdf
2. Using X11 Connection with putty and Xming for an application desktop, see this document
3. Using Putty as SSH shell and WinSCP for file transfer and.

Preparation

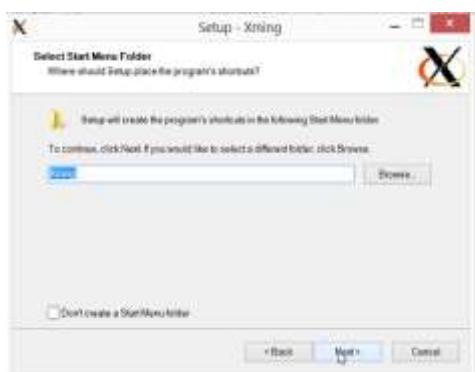
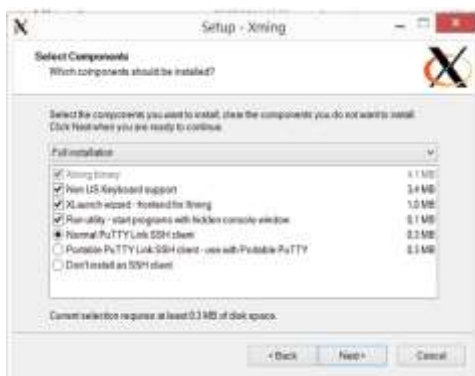
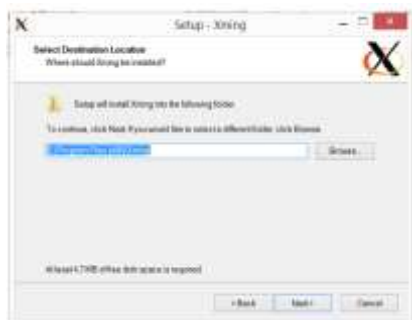
From <\\PALLANDO.et8.tu-harburg.de\share\temp\freds\gui-access> copy the **gui-access** folder to a folder onto your Windows PC or download the latest version of the tools.

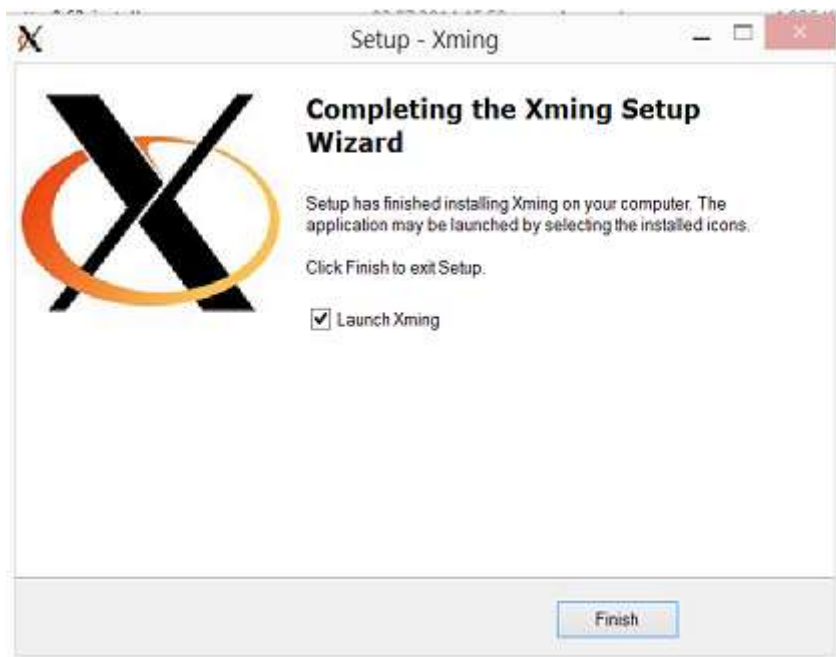
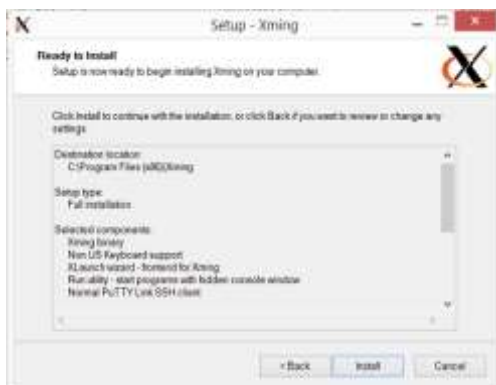
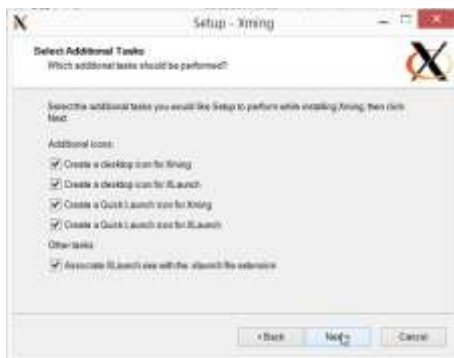


Installation of Xming

Xmin is a X11-display-server running on your desktop to display the X11 output of a remote workstation that connects via putty.

Install Xming by clicking Xming-6-9-0-31-setup.exe





Xming Start



After starting Xming an icon appears in the app control bar with a working X-Server on Windows receiving output terminal:0.0.

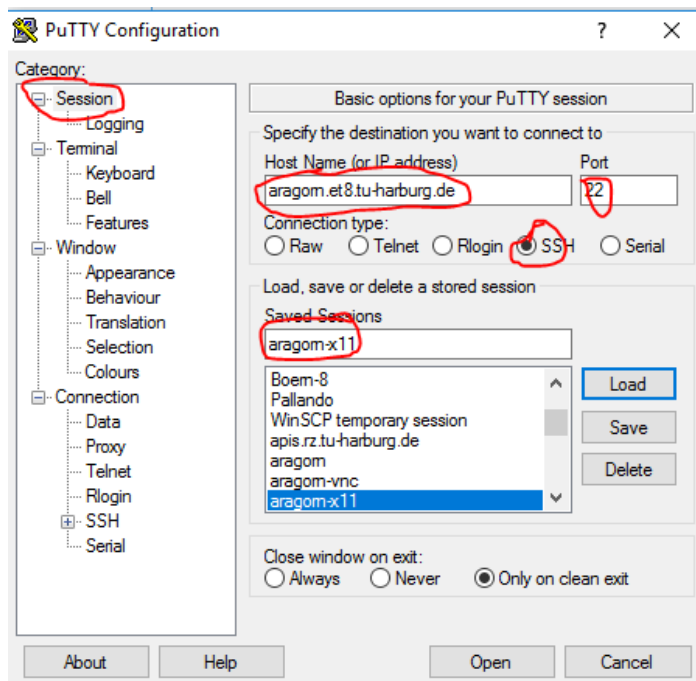
The input needs to be redirected configured by putty:

Putty Installation

Please always use the latest version, currently 0.7

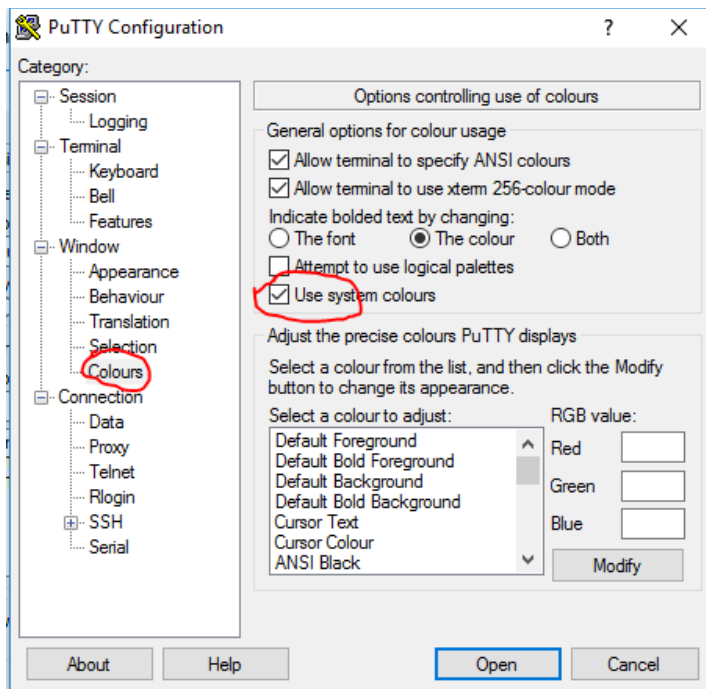
Putty Configuration

In Category select Sessions and fill in “Host Name”, “Port”, “Connection Type” and “Saved sessions”



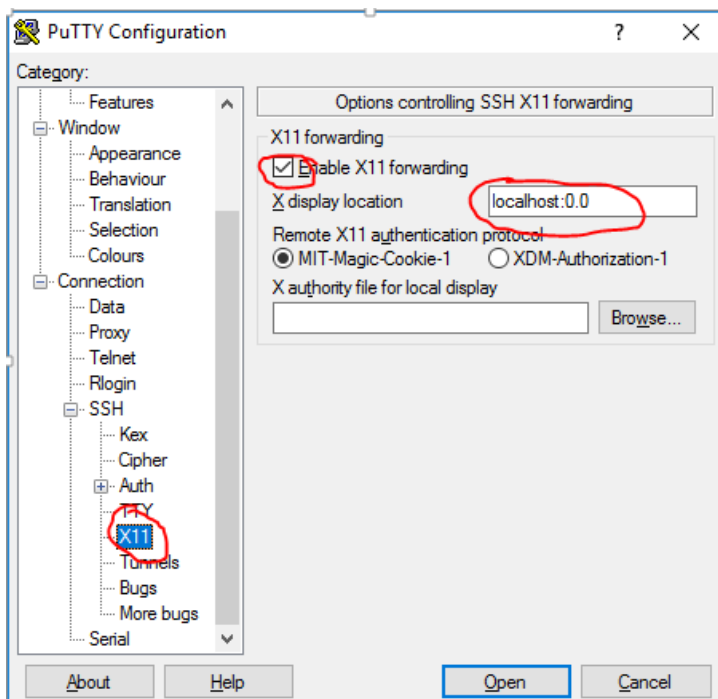
And “Save” the input.

In Category select Window/Colours and check “Use system colors”

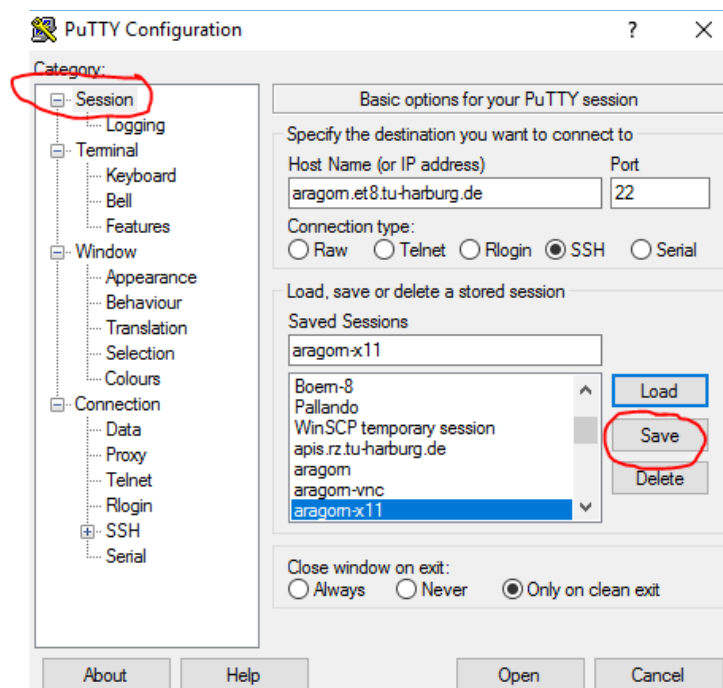


In Category select Sessions and “Save” the input.

In Category select Connection/SSH/X11 and check “Enable X11 forwarding” and fill in “X display location” with your Windows X-Server terminal, here localhost:0.0



In Category select Sessions and “Save” the input



The Saved Session Aragorn-x11 is configured and could be started with “Open”.

Execute xterm and other Applications with GUI

Log-on with your LDAP user account.

```

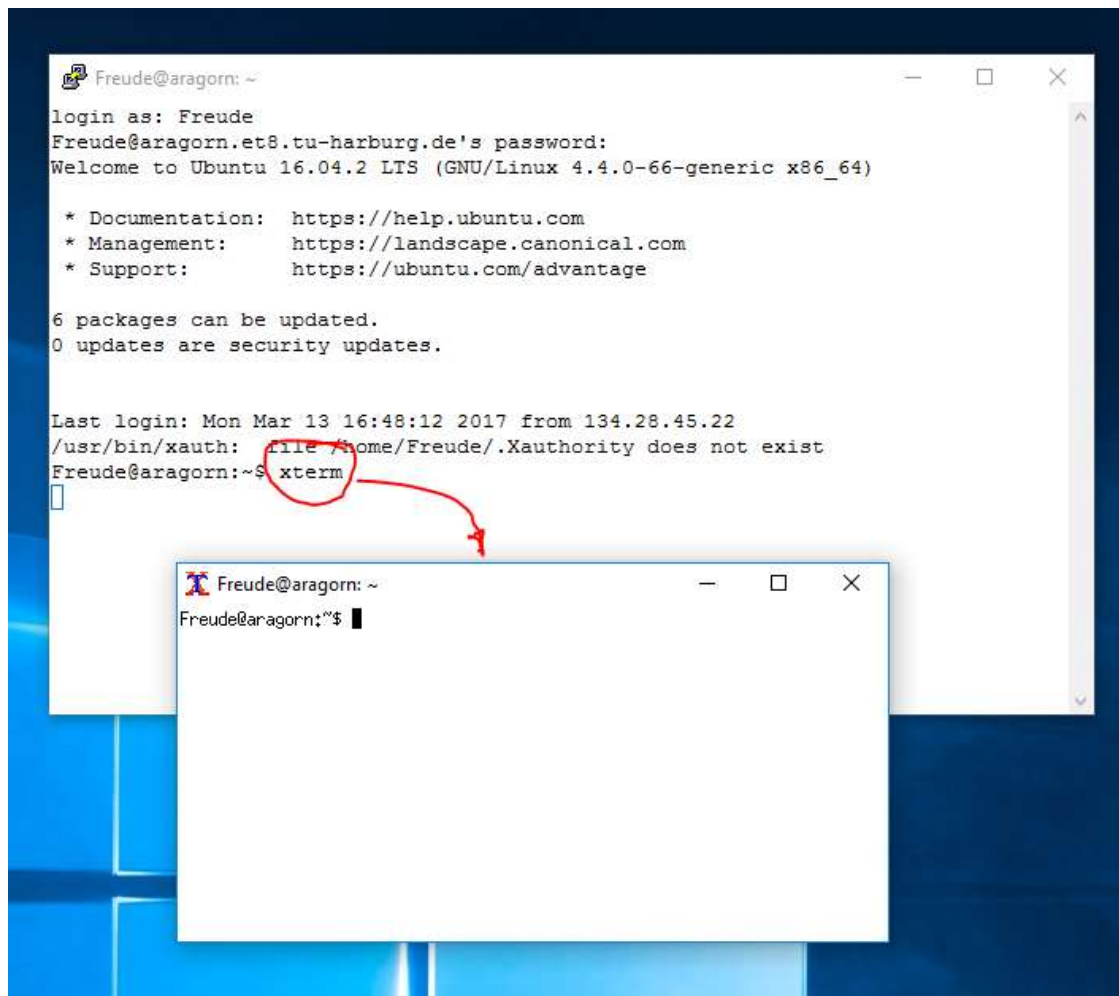
Freude@aragorn: ~
login as: Freude
Freude@aragorn.et8.tu-harburg.de's password:
Welcome to Ubuntu 20.04.1 LTS (GNU/Linux 5.4.0-62-generic x86_64)

 * Documentation:  https://help.ubuntu.com
 * Management:    https://landscape.canonical.com
 * Support:       https://ubuntu.com/advantage

0 updates can be installed immediately.
0 of these updates are security updates.

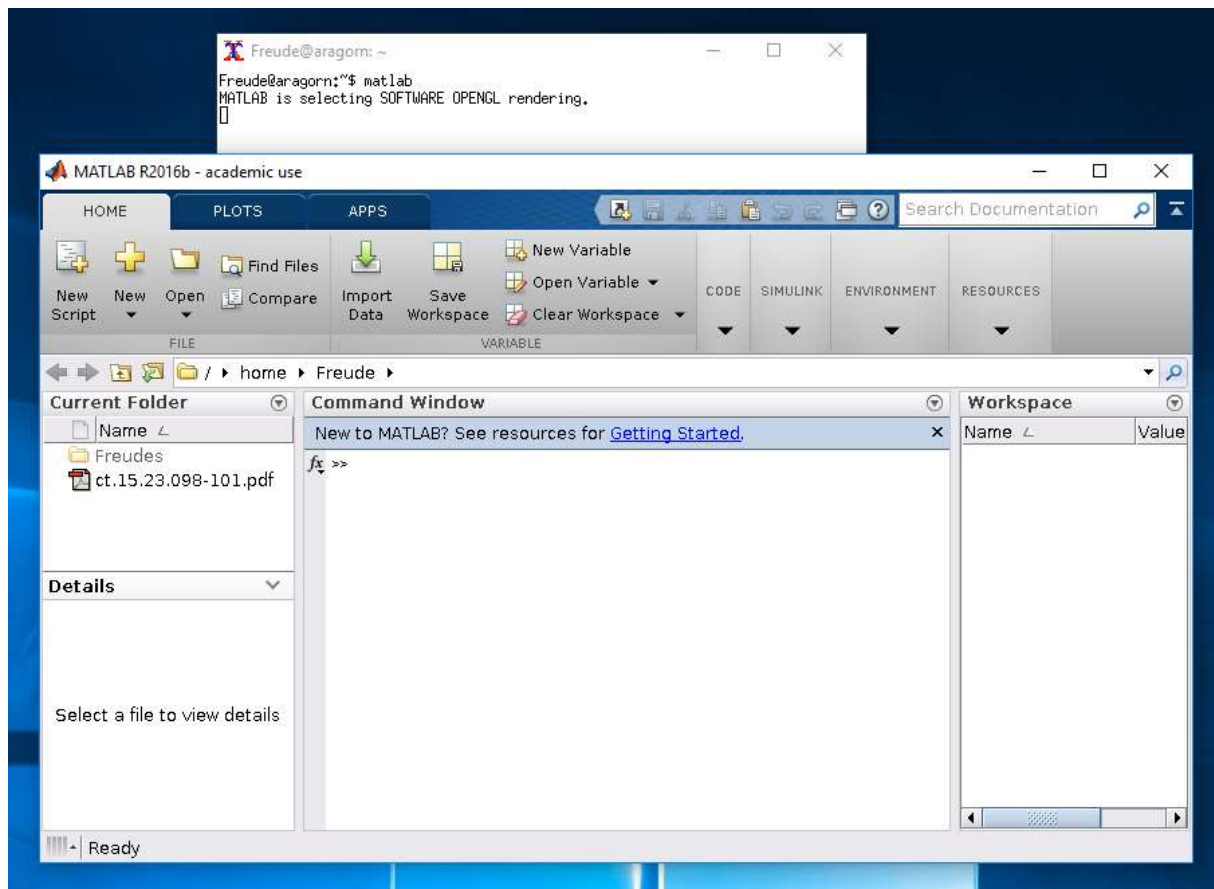
*** System restart required ***
Last login: Fri Mar  2 16:45:06 2018 from 134.28.45.22
Freude@aragorn:~$

```

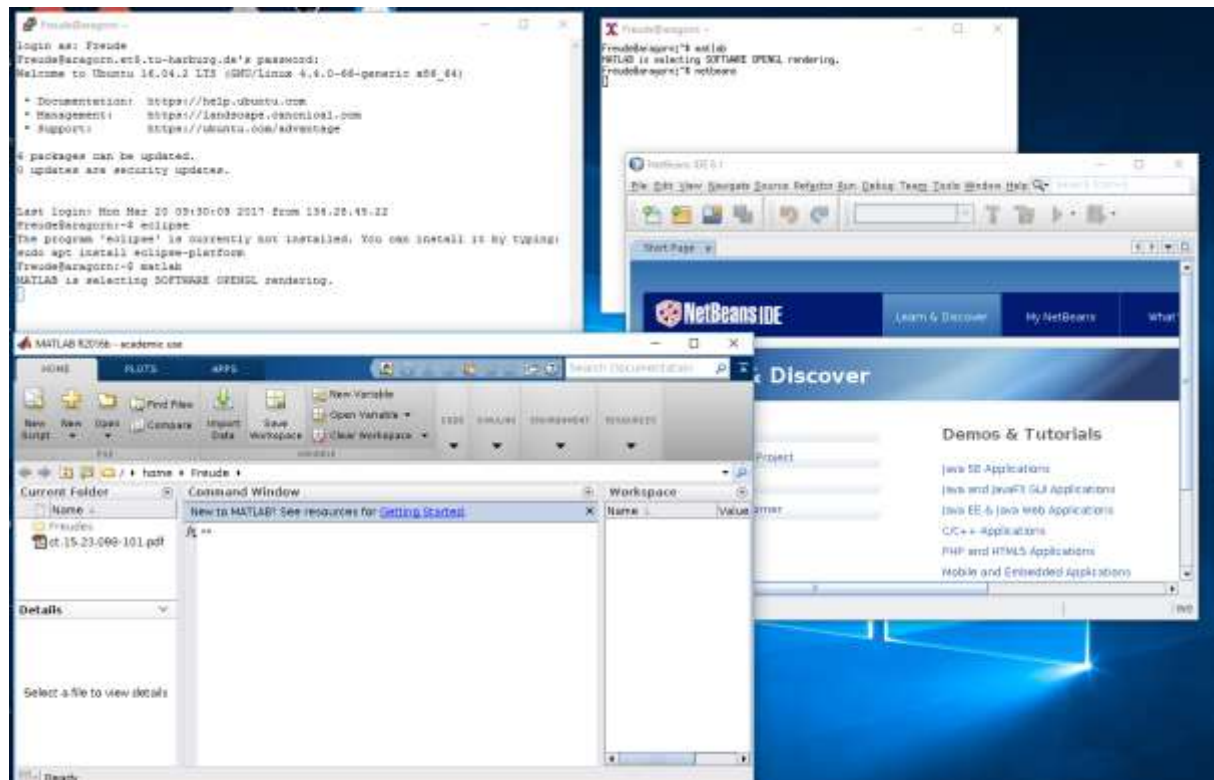


Starting xterm lets your Windows Xming Server display the xterminal session from the host onto your desktop.

From here you can start any wanted gui supported application on the connected server, e.g netbeas or matlab, etc.:

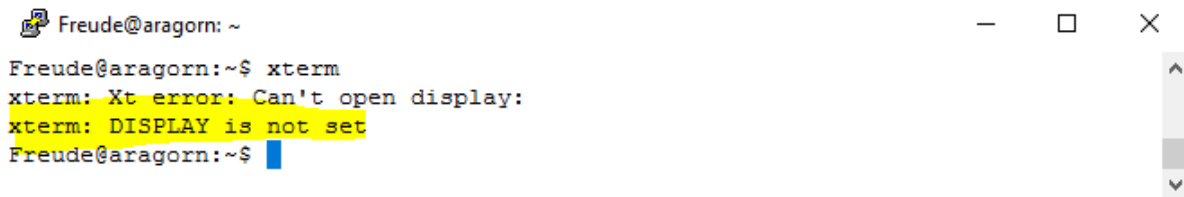


... or matlab and netbeans at the same time on your PC desktop:



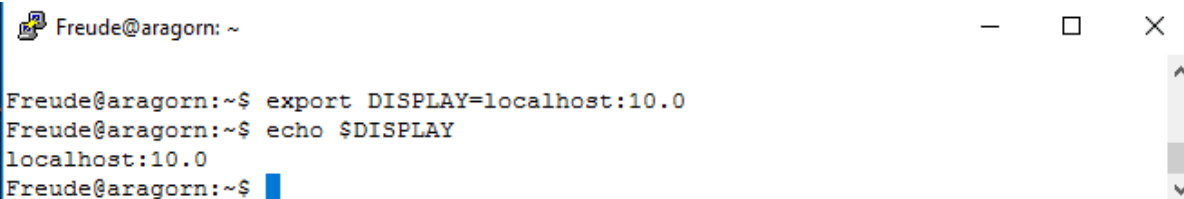
Troubleshooting xterm

In case this error message appears



```
Freude@aragorn: ~  
Freude@aragorn:~$ xterm  
xterm: Xt error: Can't open display:  
xterm: DISPLAY is not set  
Freude@aragorn:~$
```

... DISPLAY environment variable is not set ...



```
Freude@aragorn: ~  
Freude@aragorn:~$ export DISPLAY=localhost:10.0  
Freude@aragorn:~$ echo $DISPLAY  
localhost:10.0  
Freude@aragorn:~$
```

... set it to localhost:10.0 or a value > 0.0 !!

e.g

```
Freude@aragorn:~$ export DISPLAY=localhost:10.0
```