

## SSA-MTM Toolkit running on Windows via Cygwin and remote X client

- 1 Follow installation notes: <http://x.cygwin.com/docs/ug/cygwin-x-ug.pdf>
- 2 Install Cygwin/X (Page 4 of pdf)
  - a Follow steps 1-15.
  - b In addition – install selected: tcsh, Grace, Gv, Ssh and X11
- 3 Continue with installation steps 16-19 to complete setup.
- 4 Follow the ‘Display remote clients’ instructions (page 17) to launch a remote X client on a ssh session.
  - a Launch ‘Cygwin64 terminal’ icon on desktop
  - b Set the display environment (export DISPLAY=:0.0)
  - c Run the ssh command to connect to a known remote host (ssh -Y username@remote\_hostname\_or\_ip\_address):
  - d Enter password
- 5 Type in ‘xterm’ to open a xterm shell
- 6 Type in ‘spectra’ and then the SSA-MTM toolkit opens. ***SSA-MTM toolkit has previously been installed/setup on remote host.***
- 7 File transferring between PC and external/remote client (i.e. to access the result/computed files on the external/remote server):
  - Install Filezilla – (FileZilla Client for Windows) <https://filezilla-project.org>
  - Once installed, connect to the external/remote location as *sftp://external source*; that allows to drag and drop files from the external source to PC.

## SSA-MTM Toolkit running on Windows and VMWare

Another option for Window OS users is to run Linux (such as Ubuntu) under VMWare, such as a free VMWare Workstation Player. Having VMWare provides ‘virtual machine’ environment and allows for the Ubuntu OS system to operate/run. It has the bonus of being able to move (select copy, drag etc.) data files (for SSA-MTM toolkit) and result files between the Windows and Ubuntu environment – via using ‘files’ or ‘my computer/explorer’. One also needs to install ‘grace’:

“sudo apt install grace” or see <https://ubuntuforums.org/showthread.php?t=442322>)