

The following tools are required for Day 1:

1. A web browser (e.g. Firefox, Chrome)
2. The IMOD software package, a set of image processing and visualization tools for microscopic data.

A. For Windows:

- i. Download the appropriate 'Cygwin Installer' from:
<http://bio3d.colorado.edu/imod/download.html#Cygwin>

Run the downloaded '.exe' file and follow installation directions that appear

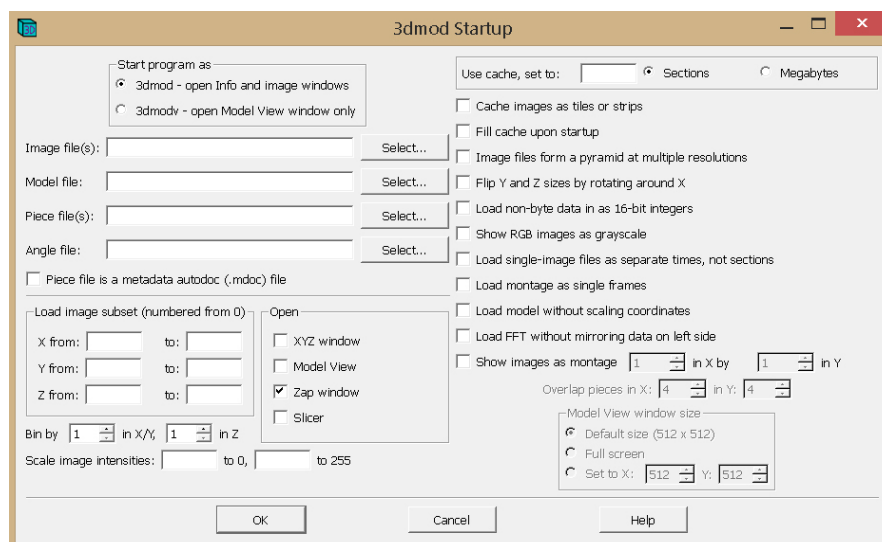
Note: "When running Cygwin setup you MUST change the selection from "Default" to "Install" in the Select Packages dialog. A note about this will be displayed during installation as well.

- ii. Download the appropriate 'clickable installer' from:
<http://bio3d.colorado.edu/imod/download.html#Latest-Windows>

Run the downloaded '.exe' file and choose to install IMOD with the default options.

Note: The clickable installer will also install Cygwin, a UNIX-like terminal program necessary for IMOD. The default install path for Cygwin should be along the lines of C:\cygwin. The default install path for IMOD would then be C:\cygwin\usr\local\IMOD

- iii. Verify that you can open the IMOD GUI, 3dmod. Open Cygwin by double-clicking the desktop icon and, at the Cygwin command line, type '**3dmod**' (without the quotes) and hit enter. You should see the following pop up:



- B. For Mac:
 - i. Download the appropriate installer from:
<http://bio3d.colorado.edu/imod/download.html#Latest-Mac>
 - ii. Follow the installation instructions at:
<http://bio3d.colorado.edu/imod/doc/guide.html#InstallingMac>
 - iii. Verify that you can open the IMOD GUI, 3dmod. At the Terminal, type '3dmod' (without the quotes) and hit enter. You should see a pop up similar to the above figure.
 - C. For Linux:
 - i. Download the appropriate installer from:
<http://bio3d.colorado.edu/imod/download.html#Latest-Linux>
 - ii. Follow the installation instructions at:
<http://bio3d.colorado.edu/imod/doc/guide.html#InstallingLinuxSGI>
 - iii. Verify that you can open the IMOD GUI, 3dmod. At the command line, type '**3dmod**' (without the quotes) and hit enter. You should see a pop up similar to the above figure.
3. An SSH client
- A. For Windows: The Cygwin client that was installed with IMOD is sufficient.
 - B. For Mac/Linux: The default Terminal programs are sufficient.
4. A public SSH Key (If you haven't already generated one)
- A. For Mac/Linux:
 - i. Open a terminal and at the command line type '**ssh-keygen**' (without the quotes). Follow instructions and enter a unique password.
 - ii. In the terminal type '**cd ~/.ssh**' and '**ls**' to see a listing of files.
- The '**id_rsa**' file is your private key and should be kept safe. NEVER SHARE THIS FILE.
- The '**id_rsa.pub**' file is the public key that we will be putting onto Rocce cluster to enable access.

B. For Windows:

- i. Open Cygwin by double-clicking the desktop icon and, at the Cygwin command line, type '**ssh-keygen -f ~/.ssh/id_rsa**' (without the quotes) and hit enter. Follow instructions and enter a unique password.
- ii. In the same command line window type '**cd ~/.ssh**' (without the quotes) to change to the .ssh directory where the key files should exist.

The '**id_rsa**' file is your private key and should be kept safe. NEVER SHARE THIS FILE.

The '**id_rsa.pub**' file is the public key that we will be putting onto Rocce cluster to enable access

- iii. Type '**explorer .**' (without the quotes, but include the period) to see the files in a file browser.

The public key is circled in red below.

